

# Colby



Colby College  
Digital Commons @ Colby

---

Colby Catalogues

Colby College Archives

---

1986

## Colby College Catalogue 1986 - 1987

Colby College

Follow this and additional works at: <https://digitalcommons.colby.edu/catalogs>



Part of the [Curriculum and Instruction Commons](#), and the [Higher Education Commons](#)

---

### Recommended Citation

Colby College, "Colby College Catalogue 1986 - 1987" (1986). *Colby Catalogues*. 200.  
<https://digitalcommons.colby.edu/catalogs/200>

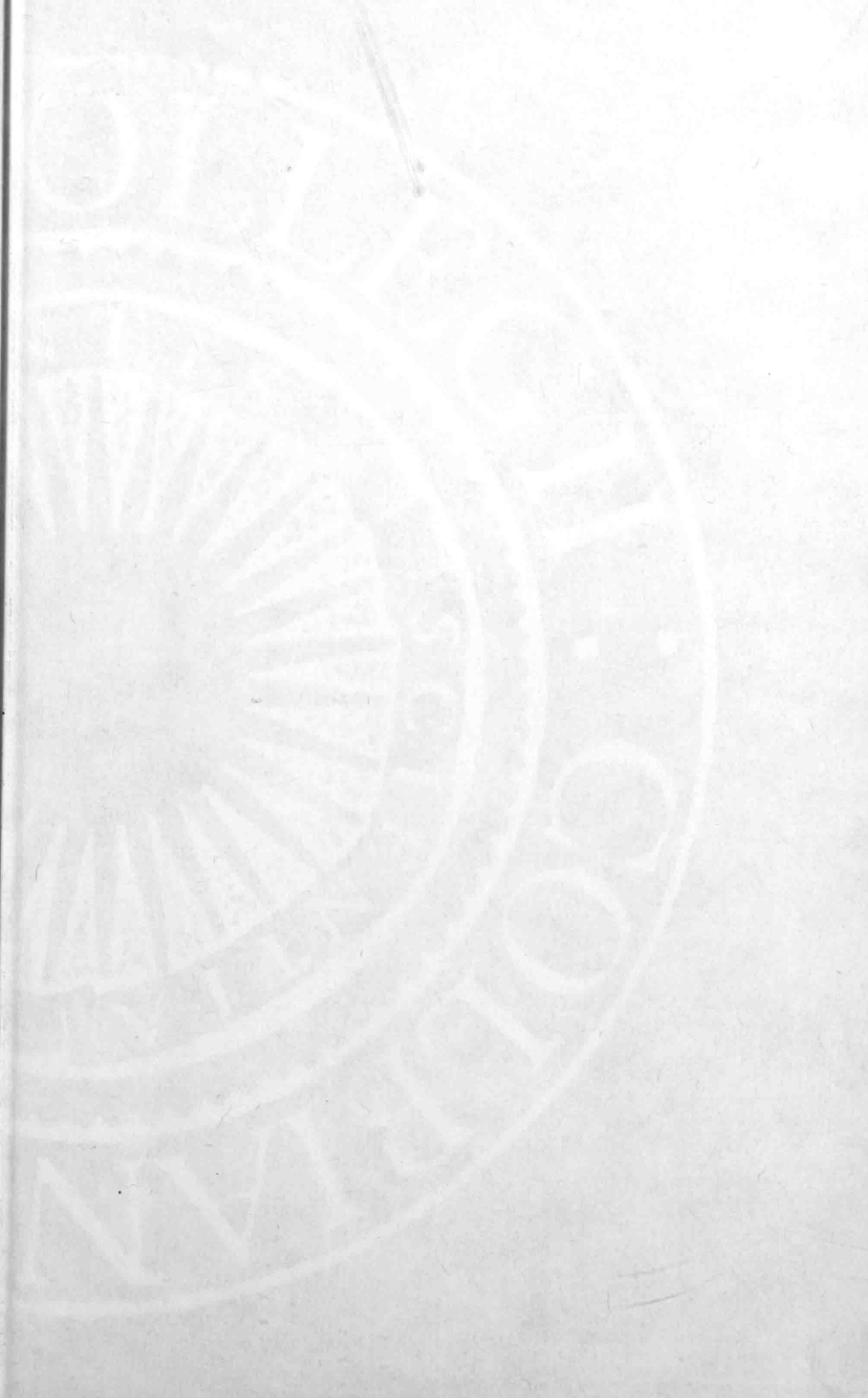
This Book is brought to you for free and open access by the Colby College Archives at Digital Commons @ Colby. It has been accepted for inclusion in Colby Catalogues by an authorized administrator of Digital Commons @ Colby.













Colby College Catalogue



1986-1987





# Colby College Catalogue

SEPTEMBER 1986-1987

Waterville, Maine

**Inquiries to the College should be directed as follows:**

**Academic Counseling** MARK R. SERDJENIAN, *Associate Dean of Students*, 872-3106

**Admission** PARKER J. BEVERAGE, *Dean of Admissions and Financial Aid*, 872-3168

**Adult Education and Summer Programs** ROBERT H. KANY, *Director of Division of Special Programs*, 872-3385

**Business Matters** ROBERT ST. PIERRE, *Controller*, 872-3159

**Grants, Loans, and Student Employment** LUCIA SMYTH, *Director of Financial Aid*, 872-3379

**Health and Medical Care** CARL E. NELSON, *Director of Health Services*, 872-3398

**Public Affairs** PETER J. KINGSLEY, *Director*, 872-3226

**Records and Transcripts** GEORGE L. COLEMAN II, *Registrar*, 872-3197

**Student Affairs** JANICE SEITZINGER, *Dean of Students*, 872-3103

Mailing address: Colby College, Waterville, Maine 04901. Telephone: (207) 872-3000.

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

Colby College is accredited by the New England Association of Schools and Colleges. Membership in the association indicates that the institution has been carefully evaluated and found to meet standards agreed upon by qualified educators.

Colby College is a private, coeducational liberal arts college that admits students and makes personnel decisions on the basis of the individual's qualifications to contribute to Colby's educational objectives and institutional needs. The principle of not discriminating on the basis of race, color, sex, sexual orientation, religion, age, parental or marital status, national or ethnic origin, political beliefs, or disability unrelated to job or course of study requirements is consistent with the mission of a liberal arts college and the law. Colby is an affirmative action/equal opportunity employer and operates in accordance with federal and state laws regarding nondiscrimination.

The College reserves the right in its sole judgment to make changes of any nature in its program, calendar, academic schedule, fees, deposits, or any other matters in this catalogue.

1  
General  
Information

Colby	5
The Commons Plan	8
Campus Life	9
The Library	12
Career Services	13
Admission	14
Orientation	17
Student Fees	18
Financial Aid	21
General Regulations	22



# Colby

Chartered as Maine Literary and Theological Institution by the General Court of Massachusetts, February 27, 1813, a group of Baptists in 1815 received a grant of land on the Penobscot River. Subsequently permitted 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 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.

When the Civil War threatened to force closing of the College, Gardner Colby, a prominent merchant of Newton Centre, Massachusetts, made a generous gift, 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 34.

## Presidents

1818-1833	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
1960-1979	ROBERT EDWARD LEE STRIDER II
1979-	WILLIAM R. COTTER

An independent college of liberal arts for men and women (women first admitted, 1871, when Mary Low was the lone female student), nonsectarian, Colby is the twelfth oldest independent liberal arts college in the country, the first previously all-male college to become coeducational, and the fifth oldest college in New England.

After World War I, Colby found its campus confined to 30 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 20 years after this decision, despite the obstacles of a great depression and World War II, Colby was gradually transferred, between 1943 and 1952, to its new site on Mayflower Hill, on land given by the citizens of Waterville.

The growth of Colby since the transfer to Mayflower Hill has been striking. There are now 43 buildings and several playing fields. Enrollment has risen from 600 to 1,700, and students come from 42 states and 26 foreign countries. The faculty, numbering 56 in 1940, now is 160. Endowment has increased from three million to 46 million dollars. The physical expansion has been accompanied by growth in variety and quality of the curriculum.

**Corporate Name** The President and Trustees of Colby College.

**Degree Conferred** Bachelor of Arts.

**Enrollment** 1,730 (opening, 1985).

**Faculty** 160 full-time and part-time.

**Endowment** \$46,548,929 (market value as of June 30, 1985).

**Library** 400,000 volumes and 1,780 subscriptions to periodicals.

**Colby Today** Colby is a coeducational undergraduate college of liberal arts committed to the belief that the best preparation for life, and especially for the professions that require further specialized study, is a broad acquaintance with human knowledge rather than narrowly concentrated training in limited areas. Colby is concerned with ideas and values as they are inherited from the past, as they are perceived in the present, and as they may be developed in the future.

In addition to a comprehensive investigation of our heritage, Colby students are urged to explore through their elective courses and to concentrate by choosing a traditional or interdisciplinary major.

**Accreditation and Memberships** Accredited by New England Association of Schools and Colleges, and American Chemical Society. Member of the College Board, College Scholarship Service, Association of American Colleges, American Council on Education, National Association of Independent Colleges and Universities, New England Board of Higher Education, Associated Colleges of New England, Council for the Advancement and Support of Education, American Library Association, New

England Library Network, Center for African and Afro-American Studies, New England Regional Conference of the National Council for Black Studies, American Institute of Indian Studies, and American Studies Association. Corporate member of American Association of University Women; chapter of American Association of University Professors; New England Small College Athletic Conference. Colby chapter of Phi Beta Kappa founded 1895.



# The Commons Plan

In January 1984 the trustees approved a complete reorganization of residential life on the campus. In the fall of 1984, Colby created four distinct small communities or "commons," each with its own dining facility and governing unit.

The Commons Plan offers a number of advantages to students. Housing of all kinds throughout the campus is available on an equal basis to all students, and students play a greater role in the control and governance of the public spaces within the commons, including the dining halls. Opportunities for the development and expression of individual student leadership come from involvement with the governing bodies and from organizing intellectual and social activities within the commons.

Students may reside within the same residence hall and commons for more than one year, so that friendships can more easily be formed and sustained throughout the college years and afterward.

A new student center serves as a focus for the Commons Plan and as a forum for campus-wide social and program activities.

Lovejoy Commons is named for Elijah Parish Lovejoy, a graduate of the class of 1826, who became America's first martyr for the free press when he was killed by a pro-slavery mob in Alton, Illinois, in 1837. Lovejoy Commons includes Dana Hall, and the residence halls of the Hillside Complex and The Heights.

Chaplin Commons, named for Jeremiah Chaplin, Colby's founder and first president who served from 1818-33, is comprised of Averill Hall, West Quad, and Grossman, Treworgy, Pierce, and Perkins-Wilson residence halls.

Johnson Commons is named for Franklin Winslow Johnson, Colby's fifteenth president (1929-42), who inspired the College's move to the Mayflower Hill campus. This commons includes Johnson Hall, East Quad, and the residence halls of Piper, Drummond, and Goddard-Hodgkins.

Mary Low Commons is named in honor of Colby's first woman graduate from the class of 1875. Included in this commons are the residence halls of Foss, Woodman, Coburn, and Mary Low.

# Campus Life

**Art** The Bixler Art and Music Center is the focal point for the College's art program. Continuous exhibitions of works selected from the permanent collection, as well as original and traveling shows, are to be seen in the Jetté Galleries of the Colby Museum of Art. The permanent collection features American and European painting, sculpture, and graphic art. Special collections are the Harold Trowbridge Pulsifer Collection of Winslow Homer Paintings and Drawings, the American Heritage Collection and the American Painters of the Impressionist Period Collection of Edith Kemper Jetté and Ellerton Marcel Jetté, the Helen Warren and Willard Howe Cummings Collection of American Art, the John Marin Collection, the Adelaide Pearson Collection, the Bernat Collection of Oriental Ceramics and Bronzes, the Langenbach-Pepper Collection of Watercolors by Charles Hovey Pepper, the Weiss Collection of Jack Levine Graphics, and the William J. Pollock Collection of American Indian Rugs and Jewelry (Navaho and Zuni).

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

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

In addition to the studio courses in the regular curriculum, workshops are maintained for extracurricular activities in ceramics, bookbinding, and photography.

The Bixler Center also contains painting and sculpture studios and gallery space for exhibitions in the Museum of Art.

**Intercollegiate Athletics** Athletics for men include varsity teams in football, soccer, basketball, hockey, lacrosse, golf, baseball, tennis, cross-country, indoor and outdoor track, swimming, and squash. There are reserve varsity teams for men in soccer, basketball, hockey, and lacrosse. Rugby is a club sport for men and women. Skiing, crew, and sailing are also coed club teams.

Varsity teams for women include field hockey, tennis, cross-country, soccer, swimming, ice hockey, basketball, squash, softball, lacrosse, and indoor and outdoor track. Women's reserve varsity teams compete in field hockey and lacrosse.

The rules that govern intercollegiate sports are those adopted by the athletic conferences in which Colby holds membership. Colby is a member of the New England Small College Athletic Conference, which also includes Amherst, Bates, Bowdoin, Connecticut College, Hamilton, Middlebury, Trinity, Tufts, Wesleyan, and Williams. The College is also a member of the National Collegiate Athletic Association, the Eastern College Athletic Conference, the Eastern Association for Intercollegiate Athletics for Women, and the Maine Association of Intercollegiate Athletics for Women.

**Intramurals** Programs in intramurals are on a coeducational basis; each student is free to engage in the activities of his or her choice. Competition is organized in touch football, soccer, basketball, ice hockey, volleyball, frisbee, table tennis, skiing, track, squash, swimming, softball, tennis, cross-country, marathon run, and basketball free-throw. Teams are divided into independent divisions, with a point system determining winners of each divisional trophy. Participation by all members of the College community is encouraged.

**Lectures** Throughout the year, outstanding scholars, musicians, and artists visit the campus. The Winthrop H. Smith Visiting Scholars Program invites a speaker for two days to lecture, talk in classes, and meet with students and faculty. Through a grant from IBM in 1983, the opportunity is provided to the mathematics, physics, chemistry, and administrative science departments, on a rotating basis, to present a lecture of related interest annually. The Clara M. Southworth Lecture examines subjects in environmental design. The Samuel and Esther Lipman Lectureship is devoted to Jewish studies and contemporary Jewish thought. The annual lecture by the Grossman Professor of Economics delves into current economic issues of significance. The Christian A. Johnson Lectures bring to Colby distinguished economists each year. The Lovejoy Convocation annually honors a member of the newspaper profession "who has contributed to the nation's journalistic achievement." The Kingsley H. Birge Memorial Lecture, established in 1982, seeks to bring to Colby distinguished persons to speak on the human experience, human potential, or humane treatment of human beings. The Spencer Family Fund provides for an annual or biennial lecture on world unity. The Matchette Lecture offers a distinguished speaker in philosophy. The Guy P. Gannett Lectures focus on general subject areas not covered by other established lectures at the College. In addition to these established lectures, speakers are invited to the campus by the Friends of Art at Colby, student organizations, academic departments, and learned societies.

**Music** Musical activities converge in the Bixler Art and Music Center, which contains rehearsal and practice rooms as well as the 400-seat Given Auditorium and an electronic music center. Facilities for musical theater and opera are provided in the Performing Arts Center, while Lorimer Chapel serves as a concert hall for large-scale choral and orchestral concerts. The Gould Music Shell, placed in a natural bowl on the northeast corner of the campus, is available for outdoor concerts.

Students are invited to participate (with or without academic credit) in the Colby Community Symphony Orchestra, the Colby Chorale, the Colby Band, LoComotion (the Colby jazz band), and Lorimer Chapel Choir, all under faculty and staff direction. There are also informal student groups: the Colby Eight, the Colbyettes, and Tuxedo Junction.

In addition to numerous concerts by department ensembles each year, concerts by visiting artists of international stature are occasionally presented by the music department and by the Student Association. The Music Associates, a local group, also sponsors a series of concerts which brings a variety of artists to the campus and the community.

**Performing Arts** Colby offers an interdisciplinary major in performing arts, enriched with courses offered by the departments of art, classics, English, modern languages, and music. In addition, Colby provides courses for non-majors and opportunities for practical experience in all the areas of theatrical production, dance, and music.

The Strider Theater, the Dunn Dance Studio, a small cellar-theater, art studios, and many spaces for musical performance serve as laboratories for the arts and as performance centers. The Strider Theater has a flexible stage, shop, makeup rooms, and rehearsal space. Light and sound booths over the balcony command a full view of the stage.

**Radio Colby** WMHB-FM is a student-operated station with a Class A noncommercial license from the Federal Communications Commission. From studios in Roberts

Union, the station broadcasts throughout the day and evening during the academic year.

**Religion** Colby College was founded by New England Baptists, and although it does not now maintain a formal relationship with any denomination, the College supports and encourages an ecumenical ministry on the campus. There are Catholic, Jewish, and Protestant chaplains.

**Student Organizations** More than 60 student organizations are chartered by the College. Academic societies are Phi Beta Kappa, Sigma Delta Pi (Spanish honor society), Chi Epsilon Mu (chemistry), Sigma Pi Sigma (physics), Delta Phi Alpha (German), Pi Sigma Alpha (political science), and Psi Chi (psychology). Student publications include the weekly newspaper, *The Colby Echo*; the yearbook, *The Oracle*; *Pequod*, devoted to art, literature, and photography; *Colby Crossfire* (political newspaper); and *Northeast Undergraduate Review*.

Service organizations are Better Alcohol Responsibility (B.A.R.), Big Brother/Big Sister, Colby Environmental Council, Student Primary Emergency Care Systems (SPECS), and the Colby Volunteer Center.

Other groups include the American Chemical Society, Bike Club, Chemistry Club, Coalition for Political Awareness, Coffeehouse Association, Colby Dancers, Colby Democrats, Colby International Club, Colby Model United Nations, Colby Outdoor Orientation Trips (COOT), Debate Club, Deutschklub (German club), East Asian Club, Entrepreneurs' Club, French Club, Geology Club, Los Subrosa (Spanish club), Men's and Women's Rugby, Outing Club, Photography Club, Pottery Club, Powder and Wig, Republican Club, Rowing Club, Sailing Club, Senior Arts Exhibition, Ski Club, Student Alumni Association, Student Arts Committee, Student Organization for Black and Hispanic Unity (SOBHU), Table Tennis Club, WMHB, Winter Activities Association, Women's Group, and Woodsmen's Teams.

Religious organizations are B'nai B'rith Hillel, Chapel Services Group, Colby Christian Fellowship, and the Newman Club.

There are other clubs and societies described under appropriate catalogue headings. In addition, each class acts as an organization, with elected officers, as do the Commons Councils. Organizations and most activities, including film, lecture, and concert series, are funded through the Student Association. Also, students are appointed by the Student Association to serve on College committees.

# The Library

Miller Library has been extensively renovated and enlarged with a new addition that has dramatically increased accommodations for readers, book collections, and staff.

The library furnishes printed and audiovisual material for assigned and recreational reading, reference, research, and independent study. The main building is open from early morning until late at night during the academic year, and mornings and afternoons each weekday in summer. Study areas and a computer room with eight terminals are open 24 hours a day. Miller Library houses the humanities and social science collections, College archives, and special collections.

An open-stack system allows browsing through the collection of 400,000 volumes. The library has 1,780 current periodicals, with strong retrospective runs, and daily newspapers from this country and abroad. Miller Library is a selective depository for United States government documents. In addition, on file are specialized types of material such as microfilms of newspapers, periodicals, and documents, recordings, films, and videotapes. The library is a member of the New England Library Network.

There are two libraries devoted to departmental collections. The Bixler Center has the Ambrose Coghill Cramer Room for the library of fine arts and music and has a newly equipped listening facility for 7,000 sound recordings. The science collections are housed in the Allyn-Smith Science Library in the Keyes Building.

Special collections of first editions and manuscripts in Miller Library have achieved international recognition. The Edwin Arlington Robinson Memorial Room, named for the famous Pulitzer Prize-winning Maine poet, contains his books, manuscripts, letters, and memorabilia. The Thomas Hardy Collection is one of the most extensive in the country. Other authors represented in the Robinson Room include A. E. 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, with numerous inscribed copies, manuscripts, and holograph letters of William Butler Yeats, Sean O'Casey, James Joyce, George Bernard Shaw, and many others. The Healy Collection has 6,000 primary and critical sources representing the Irish Literary Renaissance, 1880-1940.

The Alfred King Chapman Room houses the College archives, which hold over 4,000 manuscript files pertaining to Colby graduates, faculty, and staff dating from 1813 to the present. Also included is an extensive collection of books by Colby graduates and faculty.

**Audiovisual Center** The audiovisual center in the Miller Library provides media services for the College community. In addition to offering the traditional equipment delivery and loan services, the center also produces educational materials and provides instruction in many media-related areas. Audiovisual maintains a full complement of equipment, from overhead projectors to portable video recorders.

# Career Services

Colby's commitment to the liberal arts embraces the firm belief that the breadth and quality of a Colby education should be extended to include an equally broad choice of meaningful and rewarding career opportunities. Located in Roberts Union, the office of career services strives to acquaint students with career options, offers insight into various professions, and assists in preparation for the actual career search. Students, parents, and alumni are invited to visit the office to discuss career concerns, offer suggestions, and avail themselves of the facilities.

The staff works with academic advisers to assist undergraduates in the selection of courses and experiential options that best meet their individual interests and needs. An advisory committee, consisting of departmental representatives and members of the dormitory staff, is available for consultation and referral. Students considering careers in medicine, dentistry, law, and business are advised to meet with a member of the professional-preparation committees for each of these areas as early as possible in the freshman year.

The computer room and the career library, which includes extensive information on job-search techniques, current employment openings for permanent and summer positions, internships, and graduate-degree programs, are open daily, including evenings and weekends.

Students are encouraged to make an appointment to encounter SIGI (System of Interactive Guidance), a computer program that provides interest testing and value determination as well as information about hundreds of professions. Workshops on career exploration, résumé writing, and interviewing techniques can be as helpful to the underclassman seeking a summer job or January internship as to the senior seeking a permanent career opening. In addition, a lifetime reference file may be opened at any time, and a newsletter is distributed throughout the campus on a regular basis, listing current activities and programs as well as career-related opportunities.

Specific programs for seniors include a recruitment program, which brings representatives from graduate and professional schools to the campus in the fall and from corporations and government-service organizations in the spring. Consortium programs with other institutions allow for the opportunity to interview with a variety of additional firms and organizations at single locations in Bangor, Portland, Boston, and New York City. Information and applications for the Graduate Record Examinations, Graduate Management Admission Test, Law School Admission Test, National Teachers Examination, and the Foreign Service Examination can be obtained by seniors in the office, and all but the last two are administered at Colby at least once each year.

With the generous support of Colby graduates and parents of current students, a broad network of persons in various professions and widespread geographical locations has been established to assist students and alumni in career exploration. Parents and alumni have agreed to conduct informational interviews, be hosts for on-site visits, sponsor internships for January and the summer, and provide housing for interns and job seekers in their areas. Information on these opportunities can be obtained from the alumni liaison in the office of career services.

# Admission

Colby College admits students as candidates for the degree of Bachelor of Arts. Admission is selective, and evaluation is based on data concerning academic achievement and ability, as well as qualities of intellectual promise, interest and excitement in learning, character, and maturity.

The College actively seeks applicants who have special qualities or talents to contribute to the Colby community, as well as those who represent diverse geographical, racial, and economic backgrounds. Such candidates are expected to be within acceptable ranges of academic ability and preparation.

The quality of a candidate's preparation is judged by the academic record, the recommendations of school administrators and teachers, and results of tests administered by the College Board or by the American College Testing Program.

To ensure a common educational base, a minimum of 16 academic preparatory units is strongly recommended, including four in English, at least three in foreign language, three in college preparatory mathematics, two in history or social studies, two in laboratory science, and two in other college preparatory electives.

Colby College supports the efforts of secondary school officials and governing bodies to have their schools achieve regional accredited status to provide reliable assurance of the quality of the educational preparation of its applicants for admission.

## Application Schedule

*November 15:* Deadline for filing applications for fall option early decision admission and financial aid. Notification: December 15.

*December 1:* Deadline for filing applications for midyear transfer admission.

*January 15:* Deadline for filing applications for winter option early decision admission and financial aid. Notification: February 15.

*February 1:* Deadline for filing applications for regular admission and financial aid.

*March 15:* Deadline for filing transfer applications and financial aid requests.

*Mid-April:* Notification of action by admissions committee and of financial aid awards to regular freshman applicants.

*May 1:* Accepted regular applicants confirm intention to attend Colby by payment of \$200 advance tuition deposit.

*May 15:* Notification of acceptance and financial aid awards to transfer applicants.

**Interviews** Interviews, though not required, are recommended and are available on campus from May 1 to January 31. Appointments may be scheduled between 9:00 a.m. and 4:00 p.m. on weekdays, and on most Saturday mornings in the fall.

Interviews with alumni can be arranged for students who are unable to visit the campus and would like some additional personal contact and information about the College.

**Campus Visits** A visit is encouraged. Guides are normally available at the admissions office on weekdays, and tours generally may be arranged on Saturday mornings. A list of motels near the campus is available from the admissions office.

High school seniors who wish to spend a night on campus may do so through the Colby Host Program. The program operates five days a week (Sunday through Thursday) throughout the academic year, with the exception of examination and vacation

periods. Requests for accommodations through the host program should be directed to the admissions office at least two weeks prior to the visits. Accommodations are limited to one night.

For those driving, Colby is reached from the Maine Turnpike and I-95; Waterville is served by New England Transit Bus and Eastern Express Airlines.

**Tests** Colby requires either the College Board Scholastic Aptitude Test (SAT) and three achievement tests—one of which should be English composition—or the ACT tests. A foreign language achievement test is recommended for students seeking exemption from the language requirement. All required tests should be taken no later than January of the senior year. Early decision candidates must take these tests by November of their senior year. A request should be made by the applicant that test results be sent to Colby directly from the appropriate testing agency. Students taking the College Board tests should contact the College Board ATP, P.O. Box 592, Princeton, New Jersey 08540 (or P.O. Box 1025, Berkeley, California 94701, for those living in Montana, Wyoming, Colorado, New Mexico, or points farther west). Students taking ACT tests should make requests to P.O. Box 168, Iowa City, Iowa 52243.

**Advanced Standing** Colby participates in the Advanced Placement Program of the College Board, providing academic credit for students qualified for advanced standing. Those interested take the College Board advanced placement tests and have them submitted to Colby for evaluation. Students scoring four or five receive automatic placement and credit from the College. Scores of three and below are evaluated by the appropriate academic department.

**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. Considerations of academic and personal maturity are important to the candidate and to the 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 open to those with satisfactory academic and personal records from accredited colleges or universities.

Transfer application forms, including a special recommendation form, may be obtained from the admissions office. Credits from accredited institutions are generally accepted for courses comparable to ones offered at Colby in which grades of C or better are received. No more than 60 transferable credit hours may be applied toward a Colby degree.

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.

**Health Certificate** Before matriculation, each student must present a Colby College health certificate, which includes a physical examination to be completed and signed by the home physician. Evidence of tetanus toxoid immunization within the last five years and completed immunizations for measles, mumps, German measles, and polio are required to be recorded on the certificate. A current tuberculin test is required and, if positive, a chest X ray. (This requirement is waived for those students



who may have had a BCG vaccine.) Preregistration cannot be guaranteed unless all required forms are received two weeks prior to registration.

**Nonmatriculated Students** Application to enroll as a nonmatriculated student must be made to the dean of admissions, who has the responsibility for the admission of all students. Registration in individual courses requires the approval of the course instructor, and may be limited; matriculated students have priority in admission to courses with limited enrollments.

All persons seeking to take courses for credit must present evidence that they are qualified to pursue the intended courses, and must pay the established fee. A limited number of gifted Waterville area secondary students may be recommended by their schools to take a course for a nominal administrative charge. Adults from the immediate Waterville area who are not degree candidates may qualify to take courses at one half the usual fee.

Persons wishing to enroll as auditing students must also apply to the dean of admissions, and are referred to the section "Auditing Courses" elsewhere in this catalogue.

**International Students** Colby has traditionally encouraged the enrollment of students from other countries and is actively engaged in programs of international cooperation and exchange.

Applicants to Colby must be able to understand and be understood in English. Oral and writing skills are essential for successful work at Colby. Colby requires the Scholastic Aptitude Test (SAT) and three achievement tests (if the tests are offered in a student's home country). In addition, applicants who have attended a school in which the medium of instruction is not English are required to take the Test of English as a Foreign Language (TOEFL). Arrangements may be made to take these examinations in various centers throughout the world by writing to the College Board ATP, P.O. Box 592, Princeton, New Jersey 08540, U.S.A. To ensure that the results are sent promptly to Colby, please use the Colby College Examination Code No. 3280. United States embassies and consular offices can provide pertinent information on these examinations. They often have booklets describing the tests, and even have practice tests for your use.

Financial aid for international students is available in limited amounts. Applicants for financial aid should complete the Foreign Student's Financial Aid Application and Declaration Form, which, upon request, is sent with Colby admissions materials. All applications are due in the admissions office, with supporting documents, by February 1.

Colby has, in the dean of students office, a person responsible for intercultural activities who serves as special adviser to foreign students.

# Orientation

From the time of admission until they arrive on campus, new students are invited to make use of a "hot line" to the College to get answers to any questions they may have. An on-campus orientation program for freshmen and other new students is held just before the beginning of each new semester. The program includes an introduction to the intellectual and social life of the College, meetings with faculty and staff advisers, and placement examinations. Prior to the orientation, freshmen may participate in COOT (Colby Outdoor Orientation Trips), conducted by upperclassmen, faculty, and staff members.

**Placement in Mathematics** A mathematics placement test will be given during the orientation period and scores will be made available prior to registration. The test must be taken by all students who intend to take Mathematics 121, 122, or 123, and will cover material from high school courses typically entitled "Algebra II" and "Precalculus." The purpose of the test is to discover those students who would be well-advised to take (or re-take) precalculus before attempting calculus [it should be noted that precalculus is a non-credit course offered only in January]. Final decision on placement rests with the chairman of the mathematics department.

Freshmen who intend to register for a "no prerequisite course" [Mathematics 111, 112, 115, or 127] need not take the placement test.

Freshmen who intend to register for Mathematics 231, 241, or 253 should consult with their advisers and with the mathematics department chairman. They need not take the placement test.

**Placement in Foreign Languages** The College language requirement for 1986-87 is met at entrance by a score of 60 or more on the College Board language achievement test.

Students wishing to continue the study of a foreign language at Colby are encouraged to take the College Board achievement test in that language. The results are used to place the student at the appropriate level. If a student has not taken the College Board test and wishes to continue studying a language, he or she will be placed on the basis of a placement exam given during freshman week. Students whose College Board scores are more than a year old at the time of registration are also required to take the Colby placement exam.

Students who have had two or more years of language study may enroll in the first-semester course of that language only if the department of modern foreign languages determines, on the basis of the College Board test or Colby's placement test, that their preparation is not adequate for a more advanced level.

Placement for students who have scored 60 or above on the College Board language achievement test is done by consultation with the department.

# Student Fees

## Annual Basic Charges 1986-87

	<i>Sem. I</i>	<i>Sem. II</i>	<i>Total</i>
Tuition	\$5,215	\$5,215	\$10,430
Board	985	985	1,970
Room	1,000	1,000	2,000
General Fee	250	250	500
	<u>\$7,450</u>	<u>\$7,450</u>	<u>\$14,900</u>

## Calendar of Payments 1986-87

	<i>On Campus</i>	<i>Off Campus</i>
<i>Upon Acceptance for Admission:</i> Admission deposit – new students only.	\$200	\$200
<i>April 1:</i> Attendance deposit for first semester – returning students only.	\$200	\$200
<i>August 1:</i> One half of annual basic charges, less admission or attendance deposit.	\$7,250	\$5,265
<i>November 1:</i> Attendance deposit for second semester – returning students only.	\$200	\$200
<i>January 1:</i> One half of annual basic charges, less admission or attendance deposit.	\$7,250	\$5,265

## Deposits

*Admission Deposit for All New Students:* A nonrefundable deposit of \$200 is due on or before the date of confirmation of intention to attend. This deposit is credited against the charges for the student's initial semester of enrollment and will be forfeited if the student does not enroll.

*Attendance Deposits:* Returning students are required to pay a \$200 attendance deposit prior to each semester. The first semester deposit is due April 1 and is nonrefundable after July 1. The second semester deposit is due November 1 and is immediately nonrefundable. The attendance deposit is credited against the charges for the respective semester. For a student who does not enroll, the deposit will be held as a credit for one year, after which it will be forfeited. A student who does not pay an attendance deposit by the due date will not be permitted to select housing or preregister for courses for the coming semester. The admission deposit satisfies this requirement for new students.

## Basic Charges

*Tuition:* All matriculating students are required to enroll for at least nine credit hours each semester at the basic tuition rate of \$5,215 per semester. Exceptions are made by the dean of admissions in the case of non-traditional students and by the dean of students in certain cases of regular students with extenuating circumstances which prohibit them from carrying a normal course load. In these exceptional cases, students may be charged on a credit hour basis at the rate of \$400 per credit hour.

With permission of the dean of students, seniors needing fewer than nine hours in their final semester may take only that number of credit hours necessary to meet their graduation requirement. In such cases, however, the full basic tuition of \$5,215 per semester will be charged.

**Board:** The College offers a single board plan of 21 meals per week, required of all students living on campus.

**Room:** Students are expected to occupy College housing facilities to the full extent of their availability. Other arrangements may be made only with specific approval of the dean of students. Residence hall reservations are made through the office of the dean of students.

**General Fee:** The general fee is charged to all matriculating students except those in the non-residential degree program. Included in the general fee is an allocation for the Student Association and funding of College health services. There are no additional fees for staff services in the student health center or for the student health-insurance plan that the College provides as part of its health-services package to all students who pay the general fee.

### **Miscellaneous Charges**

**Applied Music:** A student receiving musical instruction under the applied-music program is charged a fee of \$126 for a one-credit course and \$210 for a two-credit course. Music majors will be exempt from this charge.

**January Program:** A January program that requires extensive travel, special materials, or highly specialized outside instruction carries a fee calculated to reflect the costs of the individual program. Such fees are published annually in the January program brochure.

**Colby in Caen/Colby in Salamanca/Colby in Cork:** In lieu of the regular charges for tuition, room, board, and general fee, annual fees are charged for these programs of: Colby in Caen—\$8,900; Colby in Salamanca—\$10,900; and Colby in Cork—\$11,500. Because of the nature of these programs, separate deadlines, deposits, and refund policies apply. Details are available in the Colby in Caen, Colby in Salamanca, and Colby in Cork brochures.

**Cuernavaca/Dijon/Lübeck Semesters:** For students participating in one of these programs, the regular basic charges of \$7,450 per semester apply. Further information is available from the admissions office.

**Fines:** Fines are charged to a student's account for: failure to register automobiles, parking violations, late return of library books, late registration for academic programs, checks returned as uncollectible, and for disciplinary actions.

**Damage to or Loss of College Property:** A student who is responsible for damage to or loss of College property will be billed for the cost of the damage or loss. In addition, the student may be subject to disciplinary action including suspension or expulsion. If the responsible individual(s) cannot be identified, the cost of repair or replacement may be assessed on a pro rata basis to an appropriate group of students as determined by the dean of students.

**Payment of Bills** Bills for basic charges are normally mailed two to four weeks before they are due. Each student receives a statement of account at registration. Additional statements are furnished monthly, reflecting adjustments and miscellaneous charges.

Before students are permitted to register, accounts must be paid or satisfactory arrangements made with the business office. Deferments are not granted for pending loans or scholarships. It is the student's responsibility to ensure that these matters are resolved prior to registration or to pay the bill in full and then seek a refund when the loan or scholarship is finally disbursed. Payments are applied against charges in the order in which the charges appear on the student's account.

The College imposes penalties for late payments of charges. A student with outstanding bills to the College will not be permitted to graduate, receive grades and transcripts, or select housing and courses for a future semester.

**Loan and Payment Plans** The College makes available three plans to assist students and their parents in financing a Colby education. The Colby Parent Loan Program allows qualified parents to borrow up to \$3,000 per semester. Two other plans allowing monthly payments are available through the Richard C. Knight Insurance Agency, Inc., 53 Beacon Street, Boston, Massachusetts 02108, and Academic Management Services, Inc., 1110 Central Avenue, Pawtucket, Rhode Island 02861. Additional information on all three plans is available from the financial aid office.

**Refunds** In cases of voluntary withdrawal during the period for which a student has been billed, a student may be eligible for a refund of basic charges as follows:

First two weeks of classes . . . . .	80%
Third and fourth weeks of classes . . . . .	60%
Fifth week of classes . . . . .	40%
Sixth week of classes . . . . .	20%
Thereafter . . . . .	0%

A pro rata refund of the basic charges will be made for a student who withdraws upon advice from the College physician. This refund policy applies to the regular academic program on campus and the Cuernavaca, Dijon, and Lübeck semesters.

Students who withdraw voluntarily or upon the advice of a physician from the Caen, Cork, or Salamanca programs may be eligible for refunds of the program fees as follows:

First two weeks of the program . . . . .	75%
Third through sixth week of the program . . . . .	50%
Seventh through fourteenth week of the program . . . . .	25%
Thereafter . . . . .	0%

When a student is required to withdraw because of unsatisfactory conduct including academic dishonesty, no refund will be made. A refund will not be made until the withdrawal/leave process established by the dean of students is completed.

A refund of basic charges or program fees will be made to the source of payment in the following order of priority: (1) to federally funded scholarship and loan programs in accordance with the refund regulations pertinent to those programs, (2) to the Colby scholarship program to recognize the reduction in charges/fees, (3) to the Colby loan programs to recognize the reduction of need that corresponds to a reduction in charges/fees, (4) to outside scholarship programs, (5) to the student and/or parents.

A refund of raw food costs for the period of the January program is made to a student who has completed the first semester with a board contract and who does not live or eat on campus during the January program. A refund will be credited to the student's account at the beginning of the second semester. No other refunds are made for students who elect not to do an on-campus January program.

# Financial Aid

Colby offers financial aid to students who evidence need as well as academic and personal promise. In an effort to insure equal access and opportunity for those from all socioeconomic backgrounds, Colby awards six million dollars annually in grants, loans, and campus employment to approximately 585 students, or 35 percent of the enrollment. The average award in 1986-87 is expected to be approximately \$9,200. In addition, Colby administers the full range of federal and state financial aid programs, including Pell Grants, Supplemental Grants (SEOG), National Direct Student Loans, College Work-Study, and Guaranteed Student Loans.

As a member institution of the College Scholarship Service (CSS), Princeton, New Jersey, Colby requires new aid applicants to submit the Financial Aid Form to the CSS before February 15. An analysis of the form determines need within the context of College policy and the schedule of student fees.

As an additional financing option, Colby now offers parent loans. Each year, a \$6,000 maximum loan is possible with interest at 10.5 percent.

Early decision applicants should request a special institutional application for financial aid before November 15 for Round 1 Early Decision candidates and before January 15 for Round 2 Early Decision candidates.

Students who seek more detailed information may write for the pamphlets *Financial Aid at Colby College* and *Parent Loan Program* or contact the director of financial aid.

As stated more fully in the section on "Academic Procedures" in this catalogue, the committee on academic standing reviews the records of all students at the end of each semester to determine if each is maintaining satisfactory academic progress. Decisions of this committee determine eligibility for financial aid as defined by federal regulations.

Committee decisions of dismissal (and, therefore, discontinuation of eligibility) may be appealed. When students have been readmitted after academic dismissal, federal Title IV assistance (to a maximum of ten semesters) will be awarded on a funds-available basis according to Colby's published funding priorities for financial aid. All standards are in accordance with AACRAO and NASFAA guidelines for self-regulation with respect to satisfactory progress.

# General Regulations

All students are responsible for knowledge of the regulations in the *Student Handbook* and in the annual catalogue. The handbook covers academic, administrative, and social regulations.

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

Although authority regarding discipline is the ultimate responsibility of the dean of students, most cases requiring discipline of students are turned over by the dean to a judicial board comprised of students and faculty. The regulations of the board and the rights of students appearing before the board are described in the *Student Handbook*.

**Attendance** Although students are expected to attend classes regularly, each student is permitted two absences from each course in any given semester. Work missed by such absence is the student's responsibility. If the instructor deems it necessary, persistent student absence from class will be reported to the dean of students, and dismissal from the course without credit may result.

Official excuses are granted by the instructor for the following reasons: critical emergencies, athletic or other organizational trips, or illness certified by the College physician.

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

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

The trustees have delegated to various sectors of the College, including the Student Association, extensive autonomy in the conduct of student affairs. Students retain the right to organize their own personal lives and behavior within the standards agreed upon by the College community, so long as they do not interfere with the rights of others or with the educational process.

Colby is committed to maintaining a community in which persons of all ethnic groups, religious affiliations, and nationalities are welcome. The College will not tolerate racism, harassment, including sexual harassment, or intimidation of any kind; any student found guilty of such actions or of interfering with these goals will be subject to civil prosecution as well as suspension or expulsion from Colby.

Effective Commencement 1984, the College withdrew its recognition and support of its social fraternities and sororities and the trustees mandated that no rushing, pledging, or initiating of new members of fraternities or sororities would be permitted after January 1984. Students who pledge or who invite pledging in any fraternity or sorority will be subject to disciplinary action that could include suspension or expulsion.

The College has always encouraged temperance in the use of alcoholic beverages. Moreover, federal and state laws concerning alcohol and drugs must be observed. State of Maine laws forbid possession of alcohol by underaged persons. Abuse of drugs or alcohol that leads to disruptive behavior may result in dismissal. Students found guilty of misconduct off campus are subject to Colby sanctions as well as civil law prosecution.

**Health Policy** Physicians in the Colby College health services treat students on the same basis as community physicians treat the patients under their care.

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

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

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

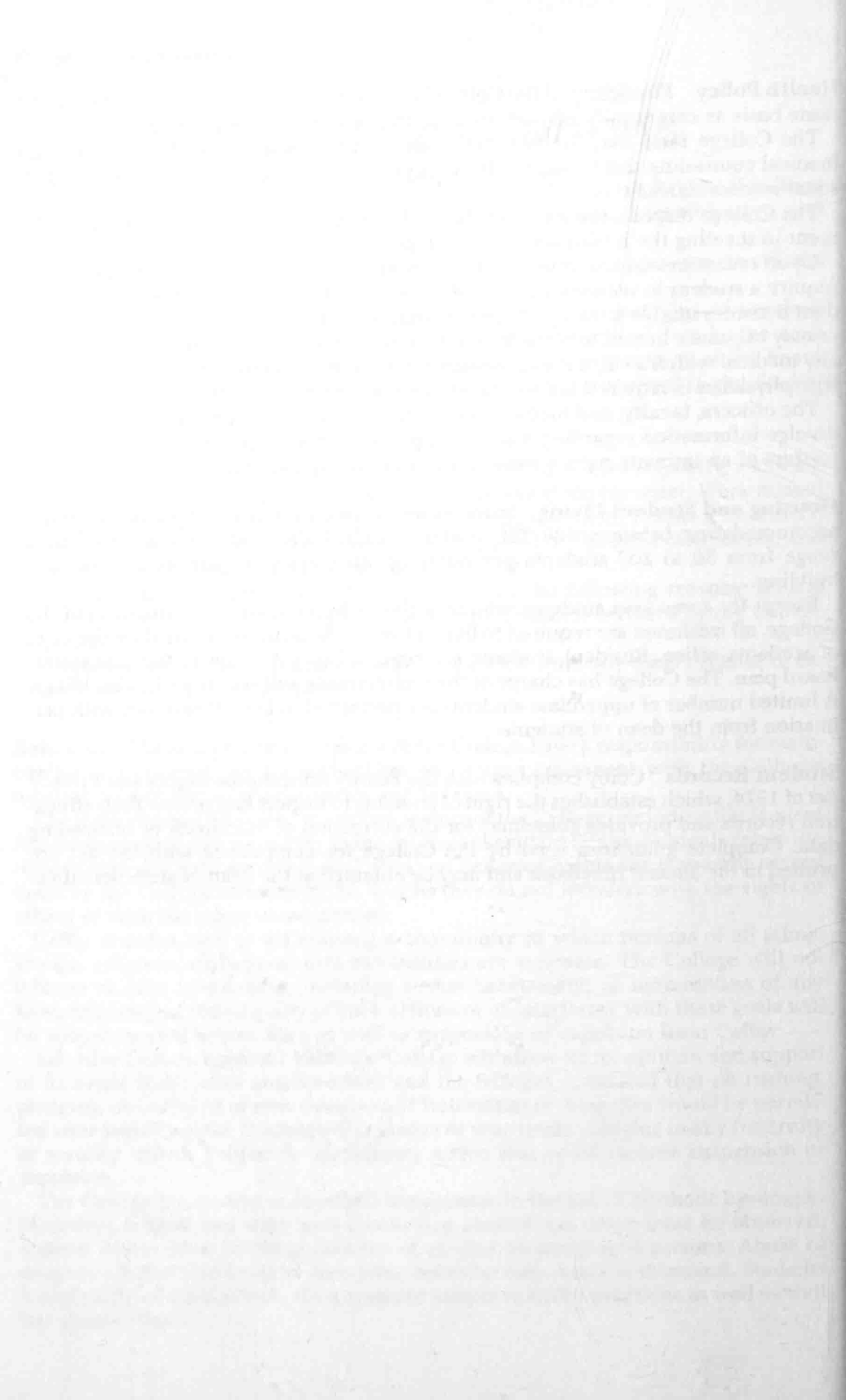
The officers, faculty, and medical staff of the College reserve the right to refuse to divulge information regarding a student's psychological or psychiatric condition or matters of an intimate nature without the student's authorization.

**Housing and Student Living** Students are housed in four Residential Commons, accommodating between 300-500 students each. Individual residence hall sizes range from 30 to 200 students per building. All class years are housed in each building.

Except for some area students who may live at home with the permission of the College, all freshmen are required to live in College housing as assigned by the dean of students office. Resident students are required to subscribe to the on-campus board plan. The College has charge of the maintenance and security of its buildings. A limited number of upperclass students are permitted to live off campus, with permission from the dean of students.

**Student Records** Colby complies with the Family Educational Rights and Privacy Act of 1974, which establishes the right of students to inspect and review their education records and provides guidelines for the correction of inaccurate or misleading data. Complete guidelines used by the College for compliance with the act are printed in the *Student Handbook* and may be obtained at the dean of students office.





# Academic Program

Academic Requirements 27

Academic Honors 33

Academic Programs 34

Academic Procedures 40

Courses of Study 44



# Academic Requirements

**Graduation Requirements** To qualify for the degree of Bachelor of Arts, a candidate must meet specific requirements in residence, quantity, quality, distribution, major, and January Program of Independent Study. Only those seniors who have met all graduation requirements are eligible to participate in the commencement exercises. The following statements define the graduation requirements:

**Residence Requirements** Candidates for the degree must earn in residence at least 60 credit hours with a 2.0 cumulative average. They must be resident students at Colby for at least four semesters, including the senior year. A resident student is defined as a full-time student taking at least 12 credit hours and paying tuition charges at the semester rate.

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

**Quantity Requirements** A minimum of 120 semester credit hours. For students entering Colby in September 1986 and later: A minimum of 120 credit hours earned in at least eight semesters of full-time college-level study.

**Credit Requirements** Among the 120 credit hours required for graduation, up to 15 may be earned in courses taken on a pass/fail basis, and up to 15 may be field experience credits.

**Quality Requirements** A 2.0 cumulative grade point average.

For each credit hour, a mark of:

*A* earns four points.

*B* earns three points.

*C* earns two points.

*D* earns one point.

Each *plus* mark earned is:

.3 quality point per credit hour added.

Each *minus* mark is:

.3 quality point per credit hour deducted.

No points are earned:

for marks below *D-*.

Two points are earned:

for each credit hour of *Cr* in nongraded courses.

## Distribution Requirements

No part of any requirement can be satisfied with pass/fail or field experience credits.

### All-College Requirements

**English Composition and Literature:** English 115 and 152. For freshmen entering Colby in September 1986 and later: English 115.

**Foreign Language (modern or ancient):** This requirement may be met in one of three ways:

(1) By attaining before entrance a score of 600 in a College Board foreign language achievement test.

(2) By successfully completing Colby's intensive language program in Cuernavaca, Mexico; Dijon, France; or Lübeck, West Germany. Open to freshmen, the programs in Cuernavaca and Dijon are offered in the fall semester, while the Lübeck program is in the spring semester.

(3) By successfully completing a sequence of modern or classical language courses terminating with a course numbered above 126 in a modern language, or Greek 131 or Latin 131. Students will be placed in the sequence according to ability. (Students who entered Colby prior to September 1986 are subject to requirements in effect at the time of entrance.)

Transfer students who have studied a foreign language not taught at Colby may fulfill the requirement by presenting evidence of having completed at an accredited institution the intermediate level of that language.

For foreign students whose native language is not English, knowledge of that language will be recognized as fulfilling the requirement. Confirmation from the chairman of the department of modern foreign languages must be filed with the office of the registrar. In certain cases, testing by the department may be required.

### Division Requirements

A minimum of six credit hours in each of the divisions of humanities, social sciences, and natural sciences. Three of the credit hours in the natural sciences must involve laboratory experience in appropriate courses in astronomy, biology, chemistry, geology, or physics.

*Division of Humanities* (Chairman, PROFESSOR JOHN R. SWENEY):

American Studies 271

Art

Classics (except Ancient History)

English (except 111, 112, and 115; 152 may be applied as a humanity for freshmen entering Colby in September 1986 and later)

Greek

Latin

Modern Foreign Languages (above the intermediate level)

Music

Performing Arts

Philosophy 372

Religion (all courses except 235)

*Division of Social Sciences* (Chairman, PROFESSOR L. SANDY MAISEL):

Administrative Science

Ancient History

Anthropology

East Asian Studies 151, 152

Economics

Education

Government

History

Philosophy (all courses except 372)

Psychology

Religion 235

Sociology

*Division of Natural Sciences* (Chairman, PROFESSOR ROGER N. METZ):

Astronomy

Biology

Chemistry

Computer Science (non-laboratory science)

Geology

Mathematics (non-laboratory science)

Physics

Quantitative Analysis (non-laboratory science)

*Division of Physical Education* (Chairman, ASSOCIATE PROFESSOR RICHARD J. MCGEE):

One year of physical education is required for graduation.

**Major Requirement** Near the end of the freshman year, each student elects a tentative major. The major may be chosen in a single subject, in one of a number of designated combinations, or in an individually designed independent major. Students are encouraged to reexamine their choices of major during the sophomore year.

The respective academic departments and programs specify the courses constituting a major in each department or program. Before selecting a major, the student should read thoroughly the requirements detailed in the section "Courses of Study."

With the consent of the departments or programs concerned, a student may change majors. Forms for officially effecting such change can be obtained from the registrar's office.

Any student whose major average falls below 2.0 has lost the right to continue with that major. A student who has thus lost the major may, with the consent of the department or program concerned, be accepted or retained for one semester as a probationary major. No student other than a freshman may continue at the College without good standing in a major. Each department or program designates the courses to be calculated in the major average.

A student may change majors at the end of the junior year if the equivalent of at least 12 credit hours, with a 2.0 average, has been earned in the new major. If, in the senior year, the average in courses completed toward the major falls below 2.0, the major requirement is not fulfilled, and the degree cannot be awarded.

**Majors Offered** The College offers majors in the following disciplines:

Administrative Science	Government
Art	History
Biology	Mathematics
Chemistry	Music
Classics	Philosophy
Economics	Physics
English	Psychology
French	Religion
Geology	Sociology
German	Spanish

Specific options are available within the majors in biology, chemistry, economics, English, geology, government, mathematics, and sociology. Independent concentrations in quantitative analysis and administrative science are options available to supplement all major programs. A concentration in public policy is available to students majoring in chemistry, economics, and government.

**Combined Majors** Majors are offered in the following combined areas:

Administrative Science-	Classics-English
Quantitative Methods	Classics-Philosophy

Economics-Mathematics  
 Geology-Biology  
 Geology-Chemistry

Geophysics  
 Philosophy-Mathematics  
 Philosophy-Religion

**Interdepartmental Majors** Approved interdisciplinary majors are offered in the following areas:

American Studies  
 East Asian Studies

Human Development  
 Performing Arts

Major requirements are outlined in the section "Courses of Study."

**Independent Majors** A student may design an independent major by a detailed written proposal, prepared with the support of an adviser who agrees to assume responsibility for the program throughout its course. Normally there will be at least one other adviser who will help to shape and direct the program. The program must include integrated course work representing from one quarter to one third of the total credit hours required for graduation and an independent study in the senior year. Implementation requires the written approval of the independent major board, a subcommittee of the independent study committee. An annual report is required from each independent major and adviser, which will include any minor changes in the program; substantial changes, or a change of adviser, must be referred to the board. Inquiries about independent majors should be directed to the chairman, Professor Kenneth Lane.

**January Program of Independent Study Requirement** The January Program of Independent Study, introduced in 1961-62, grew from a desire to extend to students a greater measure of academic responsibility. January is a period during which topics may be pursued single-mindedly, free from the competing demands of an orthodox curriculum.

Because the January program assures most students considerable flexibility in use of their time, it permits them to participate more fully in extracurricular activities in athletics, drama, music, and other fields. While students are encouraged to attend the lectures, seminars, concerts, and art exhibitions scheduled by the College, they are expected to spend 30 to 40 hours a week on their January program topics.

To be eligible for graduation, each student must complete three January programs if in residence for four or more first semesters, or two if in residence for three or fewer first semesters. Freshmen are required to take January courses and are given preference in 100-level and most noncredit programs. Upperclass students may take courses or pursue independent study. The addition in 1982 of credit options for the January program allows students to reduce the number of credits for which they must register during semesters.

January program options are:

(1) *Courses Offered for Credit.* Some are created specifically for January; others, originally designed to be offered during semesters, may be modified for January. Such courses are graded in the same manner as semester courses, except that nongraded January courses will be marked *credit* or *fail*.

(2) *Independent Study.* This involves an academic project under the direct supervision of a Colby faculty member. Projects ordinarily involve the preparation of an extensive paper or other suitable indication of the student's independent research or artistic efforts. Two options exist for electing January independent study: (a) for course credit that can be applied toward graduation requirements, to be graded as in (1)

above; and (b) for January program credit only, to be graded *honors*, *pass*, or *fail*.

(3) *Field Experience and/or Internships*. These projects are usually carried out away from the campus. Though students doing such projects do not work under the direct supervision of a faculty member, their programs require a faculty sponsor. Credits, either graded or nongraded as in (1) above, earned through field experience or internship may be applied toward the graduation requirements. Field experience and internships may be elected for January program credit only, to be graded *honors*, *pass*, or *fail*.

(4) *Noncredit Courses*. These courses fulfill the January program requirement, but students do not earn course credit that can be applied toward the credit hours required for graduation. These courses may be offered by experts in fields not included in the regular curriculum, and will be graded *honors*, *pass*, or *fail*.

Other than the grades indicated above, marks of *Abs* (absent from final examination) or *Inc* (work otherwise incomplete) may be given only in cases where the student has made an acceptable arrangement with the instructor. Grades of *Abs* and *Inc* must be made up within limits set by the instructor and not later than the second day following spring recess.

Registration for the January program takes place in October. Students failing to register by the third day of the January program will be considered to have failed the program for that year, with the failure to be noted on official transcripts. A student choosing not to do a January program in any year must signify this decision on the registration form. Except under unusual circumstances, no more than one January program may be taken each year. Initial registrations, as well as any subsequent changes of January program registrations, must be properly filed at the registrar's office. January program options in field experience and internships must also be approved in advance by the field experience coordinator. Appropriate deadlines for the pass/fail option in January are established each year.

**Exemption by Examination** When appropriate, either all-college or division requirements, as well as certain requirements for the major, may be absolved by examination without course enrollment, at the discretion of the department concerned. Regularly enrolled students may earn credit by examination in freshman- or sophomore-level courses to a maximum of 12 hours. Departmental examinations or external examinations approved by the department may be used, with credit given for the equivalent of at least C- level work. The cost of each examination is borne by the student.

**Transferred Credits** Courses taken at other institutions, in which grades of C or higher have been earned, may be credited toward the Colby degree under the conditions and circumstances listed below. In addition to the conditions listed below, restrictions detailed in the section "Graduation Requirements" (q.v.) should be read with care.

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

(2) College-level courses taken on college campuses by students prior to matriculation as freshmen are evaluated on the same basis as courses presented by new transfer students.

(3) Credits to be transferred toward a Colby degree by a matriculated student must be approved in advance by the appropriate College authority. Forms on which to seek approval can be obtained from the following:



- (a) For foreign study: coordinator of foreign study.
  - (b) For domestic exchange: associate dean of faculty.
  - (c) For summer school courses, or courses to be taken while on leave of absence other than exchange or foreign study: registrar.
- (4) No student may receive transfer credit for more than 14 credit hours taken in summer school for the purpose of making up deficiencies incurred at Colby.
- (5) 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.

**Requirement for Returning Students** A student returning to college after an absence must meet any new requirements for graduation if fewer than 61 Colby credit hours had been earned prior to the absence. If more than 60 credits had been earned, the student may elect to meet either the new requirements or those in effect at the time of initial enrollment.

**Student's Responsibility** Each student must be aware constantly of progress in meeting requirements for graduation. If there is any question about an individual record, consult the registrar's office. Each student must also be aware of deadlines set within each academic year that pertain to academic actions; these are distributed at each registration period as "Critical Dates."

**Academic Honesty** Plagiarism, cheating, and other forms of academic dishonesty are serious offenses. The instructor may dismiss the offender from the course with a mark of *F* and may also report the case to the department chairman and the dean of students, who may impose other or additional penalties. A student is entitled to appeal charges of academic dishonesty to the appeals board. The decision of the board shall be final and binding unless overruled by the president of the College who has final authority and responsibility. Students are subject to suspension from the College whenever they are found guilty of academic dishonesty.

Without the explicit, written approval of the instructors involved, registration for two or more courses scheduled to meet concurrently is a form of academic dishonesty.

# Academic Honors

The degree of Bachelor of Arts with honors is awarded in three grades: *summa cum laude* to those who obtain a 3.75 grade point average; *magna cum laude* to those with a 3.50 grade point average; *cum laude* to those with a 3.25 grade point average.

A second category of honors, entitled *distinction in the major*, is awarded to a student on the specific recommendation of the department. To be eligible, the student must have at least an average of 3.25 in the major. 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; and recipients of Phi Beta Kappa certificates, awarded to members of the three lower classes for distinction in scholarship.

Academic excellence is also recognized at a convocation each fall for the Julius Seelye Bixler and Charles A. Dana scholars. Bixler Scholars are the top-ranking students as determined by the academic records of the preceding year. Dana Scholars are selected on the basis of a strong academic performance and potential leadership.

The Dean's List, recognizing high academic standing, and announced at the conclusion of each semester, includes the name of every student whose average of all marks in the previous semester has been at least 3.2 for upperclassmen (3.0 for freshmen) in a minimum of 12 credits, exclusive of pass/fail credits. A student with any mark of incomplete is not eligible for Dean's List.

# Academic Programs

**Senior Scholars** This honors program permits a limited number of seniors to devote six credit hours per semester to a project approved by the senior scholars committee and pursued under the guidance of a faculty member. A final report is judged by three faculty readers and, upon successful completion, the senior scholar's report is deposited in the College library. Senior scholars are cited in the commencement exercises. Application must be made during the student's junior year. Inquiries should be directed to the chairman, Professor Kenneth Lane.

**Exchange Programs** Colby participates in student exchange programs with Fisk University in Tennessee, Howard University in Washington, D.C., and Pitzer and Pomona colleges in California. Ordinarily, exchanges are arranged for a single semester of the junior year. Each student pays tuition, board, and room charges at the home institution; travel is at the student's expense. Students may obtain information about exchange programs from the associate dean of faculty.

A course exchange program is in effect with Bates, Bowdoin, and Thomas colleges. Students may obtain information from the registrar.

**Interdisciplinary Studies** Interdisciplinary studies are governed by the Interdisciplinary Studies Council, Professor Phyllis Mannocchi, chairman. The council is comprised of the directors of the interdisciplinary programs.

Interdisciplinary studies offer three unique options. These options are the major, the concentration, and the course cluster.

An interdisciplinary studies program that offers a major has put together a highly structured, integrated curriculum involving courses from two or more departments together with those that might be offered by the program itself. Majors in interdisciplinary studies are offered in the following areas:

American Studies	Human Development
East Asian Studies	Performing Arts

Concentrations involve a coherent program of interdisciplinary studies, including a final integrating experience. Successful completion of a concentration will be noted on a student's transcript. Concentrations are offered in the following areas:

Administrative Science	Public Policy
Education	Quantitative Analysis

Course clusters are four or more courses, in two or more departments, that share a perspective or subject matter but for which no formal synthesizing experience is provided. Course clusters are offered in the following areas:

Black Studies	Women's Studies
Legal Studies	

Information about courses included in each of the above options appears in the section "Courses of Study" under the specific heading.

**Foreign-Language Semesters Abroad** Colby offers the opportunity for incoming freshmen and other students to satisfy the College's language requirement (and earn a semester's credit) by living abroad and studying the language intensively. Three programs will be in operation in 1986-87:

*Colby in Cuernavaca:* Now in its fifth year, this program allows students to learn Spanish in Cuernavaca, Mexico. Students reside with families, attend intensive

language courses, and have a full schedule of excursions. The program is under the supervision of the resident director, Professor Henry Holland of the department of modern foreign languages, and is offered in the fall semester.

*Colby in Dijon:* This year for the second time a group of Colby students will study French intensively in Dijon, France. Under the direction of Elizabeth H. Bowen of the department of modern foreign languages, these students will be enrolled in a special branch of the University of Dijon and will have a full program of cultural activities, excursions, and contacts with French people. The program is open to students who have completed the equivalent of one full year of French at Colby or who have a minimum of three years of high school French with emphasis on oral skills. This program is offered in the fall semester.

*Colby in Lübeck:* During the spring semester, a program is offered in Lübeck, West Germany. Students live with German families and study the German language intensively. The director of this program is Margrit Lichterfeld of the department of modern foreign languages. Students who have completed one semester of German or who have a minimum of three years of high school German may apply.

Additional information on these foreign-language semesters may be obtained from the admissions office (for incoming freshmen), the program directors, or the department of modern foreign languages.

**Junior Year Abroad** While students can find at Colby the courses needed for most liberal arts majors, many are attracted by the opportunity to study abroad. Students of modern languages and literatures may want to spend a year in the country whose language they are studying. Art majors may want to study important works of art and architecture at first hand. Government, history, and economics majors may want to study in, as well as about, certain countries. American studies majors may want to gain a different perspective on their studies. Such programs are generally undertaken during part or all of the junior year.

Colby offers its own programs in France, Spain, and Ireland (see "Colby in Caen," "Colby in Salamanca," "Colby in Cork" below). For other programs, the College requires that students attend a recognized foreign university and be fully integrated into that university's program of study. Proposals to study abroad must be approved by the students' major departments and by the Foreign Study Council. This approval must be obtained before the period of study abroad if credit is to be transferred. Students should begin inquiries early in the fall semester; some foreign universities have application deadlines as early as December 1. A grade point average of 2.7 is required for many of the programs; British universities require a 3.0 grade point average. The coordinator of foreign study will refer students to faculty members who are area advisers and will assist students with their applications.

Students on financial aid continue to receive that aid if the committee on foreign study approves their programs. For other financial possibilities, students should talk with the director of financial aid.

Some of the programs for foreign study offered by the College or available to Colby students are:

*Colby in Caen:* Colby offers a Junior Year Abroad program, in conjunction with Washington University in St. Louis, at the Université de Caen in France. Following a six-week orientation session in Paris (six credits), students begin classes in Caen, normally taking eight semester courses (24 credits), at least four of which are selected from a core program consisting of regular university courses supplemented by a weekly class meeting conducted by the course professor for the Colby group alone. In completing their curriculum, students are free to enroll in any course of-

ferred in any division of the university. A faculty member from Colby or Washington University is in residence in Caen, serving as academic and personal adviser to the students in the group. Grades are assigned by the resident director after consultation with the faculty at Caen and appear on students' transcripts as Colby credits.

In addition to group excursions in the Paris area and in the provinces, students are encouraged to take part in French life through contact with host families, work in the Caen public school system, and activities organized by the Comédie de Caen, the Oratorio (Caen's chorale), the École des Beaux Arts, and the Conservatoire de musique.

The program is designed to provide an intensive language experience. All meetings and courses are conducted exclusively in French. Students are expected to speak only French while in France.

Further details are available from the department of modern foreign languages. The deadline for application is December 1.

*Colby in Salamanca:* The Colby in Salamanca-Junior Year Abroad program is an integrated academic and cultural experience designed for the motivated student who has a good command of the Spanish language. The formal academic program is comprised of two parts: a four-week orientation program in September, taught by the faculty of the Universidad de Salamanca, and academic course work from October to mid-June.

Although students may enroll in or audit any course at the Universidad de Salamanca, Colby and the University have developed a core curriculum for the American student, covering art, history, literature, and social or political science. In these disciplines the Colby in Salamanca participants, without their Spanish peers, attend weekly a fourth hour of class with their professors. In addition, teaching assistants will be available to help Colby in Salamanca students.

A faculty member from Colby or another participating institution serves as resident director of the program. Grades will be assigned by the director in consultation with the faculty at Salamanca and in accordance with the Colby grading system.

Participants live with private families during the orientation period and in university dormitories during the academic year.

Colby in Salamanca students have the option of taking only one semester's work, in which case the grade achieved on the mid-year examination is considered a final grade.

For further information, consult the department of modern foreign languages. *Colby in Cork:* Colby College offers for the second time a year-long program for juniors at University College, Cork, one of the three major components of the Irish University system.

Students pursue a wide array of courses and are fully integrated into the academic and cultural life of the college, which includes a strong element of the Gaelic tradition. A Colby College faculty member is resident director, teaching regular university courses and providing support for the College's students. Grades are assigned in consultation with University College faculty members in accordance with the College's grading system.

Students live in local housing accommodations arranged by the director, generally with families in homes housing several students and within easy reach of the university. The program begins in mid-September with a short orientation period and tour; the academic year of three terms ends in mid-June.

For further information, consult Elizabeth Todrank, coordinator of foreign study. *Study in Asia:* The Associated Kyoto Program (AKP) is a Junior Year Abroad program associated with Doshisha University in the ancient capital of Kyoto, Japan. Colby is

one of 12 liberal arts colleges that jointly oversee the operations of the program. In Japan, the program is directed by a senior Japanologist drawn from one of the member institutions. Study of the Japanese language is required. In addition to a seminar taught by the director, students have the option to study Japanese culture, history, literature, economics, politics, and religion. Students are also assisted in selecting the appropriate university club for participation in cultural and/or athletic activity. Students are required to live with a Japanese "home-stay" family for the first semester. All credits are transferable to Colby.

Colby is directly involved in the China Cooperative Language Program sponsored by the Council on International Educational Exchange in the People's Republic of China. For information, see the director of East Asian studies.

Colby is a member of the Intercollegiate Sri Lanka Education (ISLE) consortium, which makes possible a semester of study at Kandy, Sri Lanka. The program features courses in the history, language, religion, and culture of Sri Lanka and South Asia, operates from August through November, and carries one semester's course credit for a cost approximately the same as a semester at Colby. Details are available from the department of philosophy and religion.

*Study in the British Isles:* The College has more or less formal arrangements with most British universities, among them the universities of Edinburgh and St. Andrews in Scotland, and in England the universities of Bristol, Essex, Kent, Reading, Sussex, Warwick, and York, as well as the University and King's colleges and the London School of Economics, all parts of the University of London. London School of Economics' senior tutor for general studies interviews students in Waterville each March. Information on these and other universities is available from the coordinator of foreign study.

*Study on the Continent of Europe:* In those countries where Colby does not have a program of study, students normally attend through programs conducted by other American universities. Wesleyan and Syracuse University are among those that have programs in Austria, Germany, and Italy. Programs are also available at the Pushkin Institute in Moscow. Information is available from the coordinator of foreign study and from the department of modern foreign languages.

*Study in Canada:* Some students attend the University of Toronto, McGill University, and other Canadian universities through an exchange program administered by the University of Maine at Orono. Details are available from the coordinator of foreign study.

**Other Off-Campus Programs** A new foreign study experience offered by Colby College is the London Program in Theater and Drama. The first semester, open to entering freshmen, includes writing workshops and a course in the introduction to literature. Both semesters include an option for independent study or field experience in a project focusing on work in British theater. The required core of the program consists of plays currently in production in or near London and a concurrent study of performing and/or production techniques taught by professionals in British theater. Inquiries should be directed to the chairman of the performing arts department.

The Colby in Washington semester is designed to provide an academically rigorous and pedagogically diversified intellectual and cultural experience for Colby students. The program is run in cooperation with The Washington Center, with direct oversight by a Colby faculty member who will be in residence in Washington. Students with a variety of majors will be able to take advantage of the program. Each spring, from the beginning of February to mid-May, a curriculum consisting of one seminar,

a tutorial or independent project, and a 35-hour-per-week internship will be offered for 15 credit hours. This program will be open to a maximum of 15 students from the junior and sophomore classes. Application deadline for spring semester is September 30, 1986. For more information contact the chairman of the government department.

An opportunity is also provided for a limited number of Colby students in their sophomore and junior years to participate in the various Washington Semester Programs organized by The American University in Washington, D.C. Through these programs, students can obtain first-hand knowledge of the national government as it deals with the crucial problems of foreign policy, economic policy, criminal justice, and urban affairs.

Colby is one of several institutions participating in the Williams College-Mystic Seaport Program in American Maritime Studies, a one-semester program offering courses in American maritime history and literature, marine policy, oceanography, and marine ecology. Twelve days are spent at sea on a sailing vessel. In addition to formal course work, students develop maritime skills (e.g., celestial navigation, boat building, small-boat handling) under professional instruction. The program is accredited through Williams College.

Qualified students may earn academic credit by undertaking off-campus field experiences or internships as participants in approved programs or by obtaining faculty sponsorship of an individual project or course of study. Such field experiences may supplement regular course work while in residence at the College, be done while on leave from the College, or can be completed in January or in the summer. Students must submit appropriate applications or a formal proposal for individual projects to the field experience coordinator in advance of the start of the experience. Students normally earn from one to six credits. In some cases, students earning Colby credits in such programs are charged an administrative fee.

Information on a wide variety of field experience opportunities and application forms for field experience and internships are available in the Office of Career Services.

**Engineering** Colby College, the University of Rochester, and Case Western Reserve University are affiliated in joint programs whereby a student may acquire an education in the liberal arts and also in engineering in a five-year period, with three years spent at Colby and two at either Rochester or Case Western Reserve. On successful completion of the program, the student is awarded a Bachelor of Arts degree from Colby and a Bachelor of Science in Engineering degree from the chosen university.

While at Colby, the engineering student must attain mastery of the necessary mathematics and science to support an intensive study of engineering that will follow, while gaining a broad grounding in the humanities and social sciences as well. Students graduating in this program are exempt from Colby's senior year in residence requirement, but all other graduation requirements must be met. The chairman of the physics department serves as adviser for this program, and should be consulted early in the student's Colby career.

Another option for the student who plans to be an engineer but also wants a liberal arts college education is a regular physics or chemistry major at Colby, followed by engineering studies in a graduate school.

**Professional Preparation** Many Colby graduates go on to study for advanced degrees in specialized areas of concentration; specific committees of the College are available for professional preparation advice in the following areas:

*Law and Government Service:* The committee on professional preparation for law and government service advises students preparing for careers in these areas. Prelaw students may major in any field, but they will profit from early consultation with committee members on the courses that provide the strongest possible liberal arts background for the study of law.

*Medicine and Dentistry:* Medical schools do not require a particular major but do require high academic standing and the inclusion of biology, chemistry, physics, mathematics, and English in the student's college program. Some dental schools admit applicants after three years, and sometimes after only two years, of college work; however, the leading schools prefer students with a college degree, and have specific requirements in biology, chemistry, physics, and English. The professional preparation committee for medicine and dentistry provides formal advising and other support from the freshman through the senior year.

*Theology:* Members of the department of philosophy and religion, in cooperation with the College chaplains, serve as advisers to students who plan to enter seminaries.

**Computer Resources** Plans developed by the faculty and endorsed by the trustees call for continued increase in the use of computers in the curriculum. Instruction is offered in computer science, and key courses have been identified which introduce students to uses of computers in several disciplines. Computer literacy for all graduates is an objective. Facilities now offer highly sophisticated but very approachable computing to a large number of simultaneous users. About 170 terminals in many locations on the campus are connected through communications lines to several time-sharing systems that run AT&T's UNIX operating system. Users may program in C, Pascal, FORTRAN-77, BASIC, LISP, or other languages, or they may run existing programs for statistical analysis, dynamic modeling, text processing, data-base manipulation, graphics, or specific course-related exercises. Every student, upon application, has free, unlimited use of these resources for any noncommercial purpose. Colby recently adopted the Apple Macintosh as its standard micro, and offers it for sale at a discount through the College bookstore to students and faculty. Twenty-five College-owned Macs are also available for student use in clusters on campus.



# Academic Procedures

**Student's Program** The student at Colby normally takes from 12 to 18 credit hours in each semester, and one offering during the January term.

Each freshman has a faculty adviser to assist in planning the academic program. A new faculty adviser is assigned at the end of the freshman year when the student has tentatively selected a 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. To prepare students for their lives in an increasingly complex society, students are encouraged to learn quantitative skills, to learn to write well, and to take courses that expose them to cultures other than their own.

To assure distribution among the divisions mentioned above, first-year students must include English composition, a foreign language (unless exempted by examination), and courses to meet requirements in the humanities, social sciences, and natural sciences. Students are encouraged to elect subject areas that are new to them and are advised to avoid overconcentration in any department or division.

Students 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. The student and assigned adviser should discuss a prospective program, noting carefully the recommendations and requirements in areas of major study. The selection of a major at the end of the freshman year is by no means final; students are encouraged to explore alternatives throughout their sophomore year.

**Academic Standing** A student's class standing is determined by the number of credit hours passed.

*Freshman standing:* fewer than 24 credit hours.

*Sophomore standing:* 24 to 53 credit hours.

*Junior standing:* 54 to 83 credit hours.

*Senior standing:* 84 or more credit hours.

**Registration** Registration each semester takes place on a date specified in the College calendar.

In exceptional circumstances specified in advance in writing by the dean of students, a student will be permitted to register later than the seventh class day of each semester.

It is important that students understand the distinction between payment of fees and registration. Prior to registration, each student must complete payment of fees as specified by the treasurer, who is not authorized to defer such payment.

**Election of Courses** Each semester, with the approval of their advisers, students elect programs of study for the following semester; these elections, with approved revisions, are confirmed during the registration period at the beginning of each semester. A student's academic program must have the adviser's approval and be properly filed with the registrar before credit will be granted for any course taken.

Until the eighth class day of the semester, and with the adviser's approval, voluntary changes in a student's program may be made. Any such changes must be filed with the registrar's office on the appropriate (add/drop) form.

Changes of section within a course must be approved by the department or course chairman, and are subject to the same deadlines as changes of course. Ordinarily, a course cannot be repeated for additional credit nor may a student register for two courses scheduled to meet concurrently.

No student may register for more than 18 credit hours in any semester unless one of the following stipulations is satisfied: (1) at least a 3.00 overall grade point average in two or more Colby semesters, (2) at least a 3.25 grade point average during the previous two semesters (cumulative), or (3) special permission from the faculty adviser(s) and the dean of students.

**Marks** A student may obtain marks from instructors, but the only official college record is that maintained in the registrar's office. Grade reports are issued in duplicate to the student at the end of each term; the College does not normally furnish parents with reports.

*In regularly graded courses:* Marks are ordinarily posted as *A*, *B*, *C*, *D*, and *F*, with + or - appended to grades *A* through *D*. A mark below *D-* means failure.

*In nongraded courses:* During the semester, *Cr* indicates credit is earned; *NC* is recorded if credit is not earned. During January, *Cr* indicates credit for program; *F* is recorded if no credit is earned.

*Abs* signifies absent from final exam.

*Inc* signifies incomplete: a course not finished for some reason besides failure to take the final exam. A mark of *Inc* is valid only if appropriate arrangements have been made by the student with the instructor by the last class day of the semester.

Grades of *Abs* or *Inc* must be made up within limits set up by the instructor but not later than January 15 for the first semester or July 1 for the second semester. After these dates, any remaining mark of *Abs* or *Inc* will be changed to *F* unless the student has applied for, and circumstances warrant, an extension by the dean of students. For the completion of work without penalty, extensions are considered for exceptional circumstances only.

Marks of *W* and *WF* indicate withdrawal from a 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. Withdrawal is permitted through the final class day of the term.

*F* indicates failure or abandoning a course without permission.

**Academic Review** The committee on academic standing reviews all current student records at the end of each semester to determine that all enrolled students are making satisfactory progress toward the degree. Students who earn fewer than 12 credits or less than a 2.0 grade point average in any semester, exclusive of the January program, are subject to being placed on probation or dismissed from the College by the committee. Only when there are compelling extenuating circumstances (e.g., illness, unusual personal problems) is it advisable for a student to carry fewer than 12 credits; such a reduced program must be approved by the dean of students.

A student who is on probation must earn 12 credits and a *C* (2.0) average in the subsequent semester. The January term will be considered as part of the full year's performance in evaluations made by the committee at the end of the second semester.

Students who have been dismissed may, after one year, apply to the committee for reinstatement; during the required interview the student must be prepared to demonstrate an improved commitment to scholarship.

**Pass/Fail** Students may elect a limited number of courses on a pass/fail basis; these cannot include distribution requirements. Most departments specify that major courses must be taken on a conventionally graded basis.

Forms for declaring pass/fail options can be obtained at the registrar's office. The form must be completed and returned by the end of the change of course period in the term in which the course is taken. A pass/fail election may be voluntarily revoked by a deadline established for each term. Letter grades submitted by instructors will be converted to *P* (for grades *A* through *D-*) or *NP* before being posted on permanent records. The registrar's office cannot release more specific information on the quality of the *P*, even upon request of the student who earned it.

**Auditing Courses** Adults who are not matriculated Colby students may register to audit courses at the College. Application to audit must be made with the dean of admissions; if approval is granted, forms for registering to audit specific courses must be obtained from the registrar's office. Permission to audit will be withheld if the class is already too large and if auditing applications for it are numerous.

A nonrefundable fee of \$25 per course is charged for auditing; the fee is waived for persons 65 or more years of age. Members of the College staff and their spouses may audit courses without charge.

A matriculated Colby student may register to audit courses by obtaining written consent of the instructor and adviser. No auditing fee is charged; no credit is earned, and the audit is not recorded on the student's permanent record.

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 an audited course later be converted 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.

**Hour Exams and Quizzes** Hour exams will be scheduled with at least one week's notice. Short quizzes may be given without notice.

**Semester Exams** Six days are set aside at the close of each semester for exams in all courses. The registrar's office schedules the time and place of semester exams in all courses except those that are specifically exempted by the appropriate department chairman.

An excused absence for a semester exam is granted if:

- (1) The instructor gives permission because of illness or grave emergency.
- (2) The registrar has been notified of a valid conflict *on the appropriate form*, e.g., three exams on one day, four in consecutive order, or two courses with the same exam number (the last must be resolved at the time of registration).

A student with three exams scheduled in one day or four exams in sequence may choose the exam to be postponed.

A postponed exam may be taken on the designated make-up day or at another time *subsequent to the scheduled exam* agreeable to both the student and the instructor. There is no make-up for failed exams.

The mark for the exam may constitute up to half of the total course mark.

**Warnings** Throughout the semester, at the discretion of the professor, warnings are sent to students. A *major* warning means that a student's average is below passing; a *minor* warning means that a student's average is barely passing.

**Withdrawal, Leave of Absence** Students who leave Colby while a semester is in progress are required to withdraw formally, as are students who leave at the end of a semester with no definite plans for return. Students who withdraw are not permitted to return without special approval. Students who withdraw for medical reasons must have the permission of the College physician in order to apply for readmission. Eligibility for initial or continued financial assistance from the College will be subject to review and action by the financial aid committee.

Students who leave to participate in College-approved student programs elsewhere or who leave at the end of a semester for a specified period may take a leave of absence and are not required to obtain special permission in order to return. Those who do poorly in study programs elsewhere are, however, subject to review and action by the committee on academic standing.

Such withdrawals or leaves must be officially accomplished by filing the appropriate form, which must be obtained from and signed by the dean of students. The proper exit procedure, which includes the surrendering of the student's identification card and dormitory keys, must be followed to be eligible for any refunds that may be due (see "Refunds"). A student who leaves without official notification is not eligible for refunds, which are computed from the date on the approved notice.

**Transcripts** Students and alumni may have official transcripts mailed to other institutions, prospective employers, or other designated recipients only by requesting them in writing; a transcript request form is available at the registrar's office. The fee for this service is \$1 per transcript after the first. Only courses taken at Colby are listed.

# Courses of Study

## Key to Symbols and Methods of Course Designation

Each course is known by a title, subject, and number: e.g., *American Art* is Art 271.

The *first digit* indicates the class or classes eligible to take the course:

- 000: noncredit January programs; freshmen have priority unless otherwise noted.
- 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.

An odd number as the *second digit*: an independent semester course.

An even number as the *second digit*: either of a pair of closely related semester courses *not* usually taken out of sequence, the first of which is prerequisite to the second.

An odd number as the *third digit*: course is given in the first semester.

An even number as the *third digit*: course is given in the second semester.

*d* with a course number: course is given each semester.

*d* with a 1 or 2: course is given out of semester sequence.

*j*: January program offering in current year.

[ ]: course not offered in current year.

†: course will *probably* be offered in following year.

\*: course will *probably not* be offered in following year.

Time and place of classes: a schedule of hours and rooms for courses listed in this catalogue is available at the registrar's office at registration periods.

Courses listed are subject to withdrawal at the discretion of the College administration.

*Credit hours shown are per semester unless otherwise noted.* Courses listing variable credit are offered primarily for the smaller number of credits. Students can earn augmented credit in these courses by completing such extra work as the instructor may specify. Subject to stricter deadlines as may be specified by the instructor, credit can be increased in a variable-credit course until midsemester or decreased until the last class day of the semester.

## Administrative Science

*Chairman, ASSOCIATE PROFESSOR LEONARD REICH*

*Professor Yvonne Knight; Associate Professor Reich; Visiting Assistant Professors William Lee and Amy Boyd; Instructor Yassaman Saadatmand*

The programs in administrative science are devoted to the study of organizations, profit as well as non-profit. In today's climate of increasingly sophisticated technology and the multi-national organization, it is important for managers to develop the skills necessary to approach organizational problems wisely, with moral respon-

sibility, creativity, and imagination. Students wishing to explore the art and science of decision making in a variety of organizational settings may choose one of three programs of study:

1) The administrative science major includes (a) a set of core courses designed to expose students to the various aspects of organizations and (b) sets of related courses from which students may choose electives that give the major a specific focus and apply decision-making theories and techniques. Both the core courses and the electives draw on the resources of other departments and divisions, recognizing the interdisciplinary aspects of decision making and the diversity of student interests.

2) The administrative science/quantitative methods major offers the quantitative skills essential in a technically oriented world. This program emphasizes mathematical modeling and decision-theory skills as they apply to organizational decision making.

3) The concentration in administrative science consists of the core courses for the discipline and offers an independent concentration that is intended to supplement other majors offered at Colby. The courses prepare students to understand various aspects of organizations without taking a complete major, provide prerequisites to take advanced administrative science courses as electives, and have the added bonus of being listed on transcripts as a coherent set of courses in organizational studies.

#### **Requirements for the Major in Administrative Science**

Administrative Science 221, 311, 494; Economics 133, 134; Mathematics 231 or 241 and 242, or 381 and 382; Philosophy 211; Sociology 131, 413, and one course from Sociology 275, 277, 332, 392, 394; three courses, all chosen from one of the following groups:

Group 1: Economics 223, 224, 277, 278, 331, 332, 338.

Group 2: Administrative Science 251; Economics 258, 274; History 124, 235, 353, 392.

Group 3: Administrative Science 231, 333, 334, 336, 354, 358.

No administrative science courses may be taken pass/fail. No other course used to satisfy major requirements may be taken pass/fail. The point scale for retention of the major applies to all courses used to satisfy major requirements.

#### **Requirements for the Major in Administrative Science/Quantitative Methods**

Administrative Science 221, 311, 336, 391, 494; Computer Science 125; Economics 133, 134; Mathematics 121, 122, 253, and one of the following: 231 or 241 and 242, or 381 and 382; Sociology 413; three semester courses selected from the following: Administrative Science 271, 351, 353, 372; Economics 223, 393. Administrative Science 391 must be elected concurrently with one of the three electives in the last group.

No administrative science courses may be taken pass/fail. No other course used to satisfy major requirements may be taken pass/fail. The point scale for retention of the major applies to all courses used to satisfy major requirements.

#### **Requirements for the Concentration in Administrative Science**

Administrative Science 221, 311, 336; Economics 133, 134; Mathematics 231 or 241 and 242, or 381 and 382; Sociology 413.

Successful completion of the concentration requires a 2.0 average for all requirements above. None of the required courses may be taken pass/fail.

This concentration may be added to any other major offered at Colby.

**221 Financial Accounting** The underlying theory and analytical aspects of the measurement, recording, and reporting of a firm's financial information to external

users. Emphasis is on the conceptual and communication aspects of the financial accounting model in modern society—its relationship to law, economics, and social policy. *Three credit hours.* MRS. KNIGHT

**222 Management Accounting** The principles of measuring, recording, and reporting the accounting information needed by management in planning, coordinating, and controlling an organization's activities. The construction and uses of full cost, differential, and responsibility accounting data will be discussed, with attention to behavioral implications and performance evaluation. *Prerequisite:* Administrative Science 221. *Three credit hours.* MRS. KNIGHT

**[231] Technology, Corporate Strategy, and Competition** An examination of analytical and empirical research focused on the interactions between scientific progress, technological opportunities, competitive pressures, corporate strategy, and public policy towards science and technology. Consideration is given to (1) the technological evolution of industries and interactions with corporate strategy, (2) the role of science in promoting technological progress, and (3) the impact of public policies intended to increase the speed of diffusion of new technologies and encourage a more rapid pace of innovation. *Prerequisite:* Economics 133. *Three credit hours.*

**251 Technology and Society in America** An examination of the processes by which the rapid technological developments took place in America. The country's transformation from an agricultural- to an industrial-based economy during the nineteenth century, with the stimuli and constraints on inventors, engineers, entrepreneurs, and corporations; with the hesitant and often ineffective attempts by government to control technology; and with the impact that evolving technology and industry have had on the lives of the nation's people. *Prerequisite:* A course in American history or permission of the instructor. *Three credit hours.* MR. REICH

**271 Decision Analysis** An examination of analytical, organizational, political, and cognitive theories of decision making. Consideration is given to risk and cost-benefit analysis, computer models, ethical decision making, group choice, and creativity. A case approach is used to enable students to apply theory to complex policy problems. *Prerequisite:* A previous course in statistics. *Three credit hours.* INSTRUCTOR

**272 The Computer and Decision Making** An introduction to the uses of computers, especially in administrative and work-place situations. It is not a programming course but rather one where students gain an understanding of the ways computers can be used to improve efficiency and aid decision making in business, industry, government, and other organizations. In addition to computer system design and general programming techniques, the course examines philosophical and social issues such as artificial intelligence and the impact of computers on the work place. *Prerequisite:* Permission of the instructor. *Three credit hours.* MR. REICH

**311 Finance** Theory and analysis of how firms judge investments and financial alternatives. The capital markets and the influence of risk are considered. Formerly listed as Administrative Science 321, 322. *Three credit hours.* MS. SAADATMAND

[333] **Marketing** Development of the broad concept of marketing as an all-pervasive organizational and societal function, both domestically and internationally. *Four credit hours.*

**334d1 Administration of Public and Social Service Organizations** An introduction to the theories and methodologies utilized in the administration of public and social service organizations: federal, state, and local government units, health care and educational institutions. Emphasis placed on the management tools and skills that best enable the organization to perform its function efficiently and effectively in an environment of constantly changing social and economic values. *Prerequisite:* Administrative Science 221. *Three credit hours.* MRS. KNIGHT

**336 Political and Social Environment of Organizations** Relationships between the private sector and the changing sociopolitical environment in the American political economy, relationships between business and other institutions, influence of business on public values and policies, and the emerging characteristics of the sociopolitical environment. *Three credit hours.* MR. REICH

[351] **Marketing Research Methods** An examination of a variety of multivariate statistical techniques as applicable to research issues in administration. Students will be expected to develop a facility for using locally available statistical packages on the computer. Formerly listed as Administrative Science 397. *Prerequisite:* Previous coursework in statistics and Mathematics 253 or permission of the instructor. *Three credit hours.*

**353d2 Managerial Economics** The application of scientific methods, with an emphasis on economic modeling techniques, to administrative analysis and planning. Topics include decision theory, forecasting, demand analysis, cost estimation, pricing, promotion, productivity, and capital budgeting. *Prerequisite:* Administrative Science 221 and Economics 133,134. *Three credit hours.* MS. SAADATMAND

**354 Law** The course is designed to provide an understanding of the law and its application to individuals, groups, and organizations. The origin and purpose of law, legal research, contracts, criminal law, torts, and administrative law; emphasis on class participation through discussions, debate, and mock trials. *Four credit hours.* MR. LEE

[358] **Corporate Social Responsibility/Business Ethics** An examination of a variety of views, both normative and descriptive, regarding the social role of business and business decision makers in the American political economy. Formerly listed as Administrative Science 398. *Prerequisite:* Permission of the instructor. *Three credit hours.*

**372 Operations Research** The application of scientific methods to the study of organizational operations. The design of a research study and the process of model building. A research project is required. *Prerequisite:* Mathematics 253 or permission of the instructor. *Three credit hours.* INSTRUCTOR

**391d Analytical Research Paper** An analytical research paper to be written in conjunction with and while currently enrolled in one of the electives chosen for



the administrative science/quantitative methods or administrative science major. Required of all administrative science/quantitative methods majors. *Prerequisite:* Permission of the instructor. *One credit hour.* FACULTY

[411] **The Consumer in Society** Consumer behavior is examined within the framework of the financial and social institutions that comprise our complex society. Emphasis is given to those aspects related to financial goals, alternatives, and decisions. *Three credit hours.*

**491, 492 Independent Study** Individual projects devoted to organizational issues in which the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY

**494d Senior Seminar** Specific topics will change yearly and will be announced in advance. *Prerequisite:* Senior standing as an administrative science/quantitative methods major. *Four credit hours.* FACULTY

## American Studies

*Director, PROFESSOR CHARLES BASSETT*

*ADVISORY COMMITTEE: Professors Bassett (English), Joel Bernard<sup>1</sup> (History), Pamela Blake (Government), Patrick Brancaccio (English), Fraser Cocks (Special Collections), Jackie Donath (Art and American Studies), Frederick Geib (Sociology), Henry Gemery (Economics), Natalie Harris (English), Peter Harris (English), Yeager Hudson (Philosophy), Jane Hunter<sup>1</sup> (History), Thomas Longstaff (Religion), David Lubin<sup>1</sup> (American Studies and Art), Paul Machlin (Music), Sandy Maisel<sup>2</sup> (Government), Phyllis Mannocchi (English), Deborah McDowell<sup>2</sup> (English), Thomas Morrione (Sociology), Fred Moseley<sup>1</sup> (Economics), Richard Moss (History), Harold Raymond (History), Leonard Reich (Administrative Science), John Sweney (English), Robert Weisbrot (History); and five students majoring in American Studies.*

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

### Requirements for the Major in American Studies

American Studies 271\* and 493 or 494; English 251 and 252\*; History 123 and 124\*; two additional English courses in American literature; two additional courses in American history; and four additional courses (see lists below) with some interdisciplinary focus on American culture—coordinated with the approval of the major adviser according to chronology, theme, or method—to bring the total to a minimum of 14 courses. (*Note:* courses marked with \* are expected to be completed before the junior year.)

Students majoring in American studies may apply during their junior year for admission to the honors program. On successful completion of the work of the honors program and of the major, their graduation from the College will be noted as being "With Honors in American Studies."

The point scale for retention of the major applies to all courses offered toward the major. No requirement for the major may be taken pass/fail.

Courses most commonly taken in recent years in fulfillment of requirements for the major in American studies include:

*Administrative Science:* 354 Law.

*American Studies:* 274 The Female Experience in America.

*Art:* 271 American Art; 278 American Visual Arts.

*Economics:* 231 Introduction to Environmental Economics; 274 American Economic History.

*Education:* 336 The American School.

*English:* 351 American Renaissance I; 352 American Renaissance II; 353 The Realistic Imagination; 355 Black American Literature; 356 Modern American Fiction; 357 Modern American Poetry; 493, 494 Seminars in American Literature.

*Government:* 273 The American Congress; 356 Parties and the Electoral Process.

*History:* 215 America and Asia; 257 History of Women in America; 258 American Character and Culture; 277 Afro-American History; 353 American Culture and Society 1865-1875; 372 The Civil War; 393 American Cultural History 1600-1865; 415, 416 Seminars in American History.

*Music:* 133 American Music.

*Philosophy:* 252 American Philosophy.

*Psychology:* 239 Personality and Social Psychology.

*Religion:* 217 Religion in America.

*Sociology:* 211, 212 Short Courses in American Sociology; 252 Race and Minorities.

Additional courses which may be taken in fulfillment of requirements for the major in American studies include:

*Administrative Science:* 251 Technology and Society in America.

*American Studies:* -97, -98 Selected Topics (except at the 100 level); 258 American Character and Culture; 273 Introduction to American Material Culture; 276 Black Culture in America; 491, 492 Independent Study.

*Anthropology:* 211 American Indians.

*Art:* 277 American Visual Arts; 353 Contemporary Art, 1914 to the Present; 491, 492 Independent Study.

*Economics:* 294 Urban and Regional Economics; 312 Topics in Law and Economics; 491, 492 Independent Study.

*Education:* 294 Women in Professions.

*English:* 354 The American Short Story; 397 Faulkner; 398 American War Fiction; 491, 492 Independent Study.

*Government:* 275 The Committee System in the United States Congress; 312 Directions in Feminist Theory; 313 American Constitutional Law I; 314 American Constitutional Law II; 316 American Political Thought.

*History:* 217 The Kennedy Administration; 272 War and Revolution in Vietnam; 312 The Atlantic Revolutions; 354 American Intellectual History, 1865-1917; 376 America: 1607-1783; 377 The Coming of the Civil War; 432 Seminar in Black History; 491, 492 Independent Study.

*Music:* 219 American Musical Theater; 231 Jazz.

*Philosophy:* 491, 492 Independent Study.

*Psychology:* 491, 492 Independent Study.

*Religion:* 257 Women in American Religion; 491, 492 Independent Study.

*Sociology:* 233 Criminology; 276 Men and Women in Society; 318 Contemporary Theory; 491, 492 Independent Study.

**Requirements for the Concentration in Quantitative Analysis**

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491; one course from Computer Science 126, 132, 231, Mathematics 115, 117, 119, 121, 123, Philosophy 152, 258.

<sup>1</sup>On leave full year.

<sup>2</sup>On leave first semester.

†[256] **Business Cycles in United States History** Listed as Economics 258 (q.v.). *Prerequisite:* Economics 134 or permission of the instructor. *Three credit hours.*

**271 Introduction to American Studies** An interdisciplinary examination of an era or theme in American thought and culture. Social, political, racial, artistic, musical, economic, and cultural aspects of American life will be explored in lecture and discussion, with popular media a focus. *Four credit hours.* INSTRUCTOR

†[273] **Introduction to American Material Culture** Seeks insight into the everyday lives of Americans at different times and places, with a focus on New England. Assumptions about the past will be formulated and tested by visual and historiographic scrutiny of household artifacts, vernacular architecture, common landscape, etc. A field trip and research project are required. *Three credit hours.*

**274 The Female Experience in America** An introductory course that focuses on major issues in twentieth-century American women's lives and the second wave of the women's movement: the cycles of women's lives; women and creativity; women, race, and class; and women working for social change. Women's autobiographical writings, including fiction, diaries, memoirs, and oral histories by, among others, Emma Goldman, Zora Neale Hurston, Tillie Olsen, Edith Wharton, Charlotte Perkins Gilman, Gloria Naylor, Maya Angelou, Willa Cather, Dorothy Day, and selected films. Students will participate in the production of slide- or video-tape documentaries on issues raised in the classroom. Enrollment limited. *Three or four credit hours.* MS. MANNOCCHI

†[276] **Black Culture in America** An interdisciplinary examination of black cultural expression from the slave era to the present, including folk tales and beliefs, blues, work songs, jazz, sermons, dance, and literature, tracing the stages of development of a distinctive black culture in America and its relationship to the historical, social, and political realities of black Americans. *Three credit hours.*

[277, 278] **American Visual Arts** Listed as Art 277, 278 (q.v.). *Three credit hours.*

**491, 492 Independent Study** Individual study of special problems in American studies in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor and the program director. *One to four credit hours.* FACULTY

†[493], 494 **Seminar in American Studies** An interdisciplinary seminar incorporating theoretical approaches to the study of American thought and culture. Topic will change each semester. *Prerequisite:* Senior standing as American studies major. *Three credit hours.* MR. BASSETT AND MR. MOSS

# Ancient History

*In the department of classics.*

†[151] **Introduction to Greek Civilization** A survey of Greek culture from Homer to Plato, with special attention to the artistic developments that culminated in the Periclean age of Athens. *Three or four credit hours.*

154d1 **Roman History** The road to empire; the building of the Roman empire traced as a theme used by poets and ancient historians who celebrate its achievements and ponder its consequences. Readings include selections from the poetry of Virgil, Horace, and Ovid, and from the histories of Livy, Tacitus, and Josephus. *Two or three credit hours.* MR. SMITH

[177], 178 **Topics in Ancient History: Athens and Archaeology** Study of Athens from the sixth through fourth centuries B.C. by examining the archaeological record of the city. Students will learn to evaluate archaeological evidence of all types: architecture, sculpture, pottery, and metalwork; and to see how the physical remains of a city reveal governmental policies, religious beliefs, and private interests. *Two or three credit hours.* MISS HIGBIE

252 **Prehistoric Greece** The art and archaeology of Greece from the neolithic to the geometric periods, with emphasis on Minoan and Mycenaean culture. *Three or four credit hours.* MRS. KOONCE

[352] **Athens in the Fifth Century** The forces that shaped Athenian democracy and the cultural and political life distinctive of Periclean Athens. *Three or four credit hours.*

†[353] **Greece in the Fourth Century** The history of Greece from the death of Socrates to the rule of Alexander, drawing largely upon contemporary sources. *Prerequisite:* Permission of the instructor. *Three or four credit hours.*

491, 492 **Independent Study** Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *One to three credit hours.* FACULTY

# Anthropology

*In the department of sociology. A concentration in anthropology is offered for sociology majors. See "Sociology."*

111 **Introduction to Anthropology** A survey of the origins, evolution, and cultures of humankind, including physical anthropology, archaeology, cultural anthropology, and linguistics. The course will include human physical and cultural evolution, the origins of food production, cities, and civilizations; cross-cultural comparisons of economic and political systems, subsistence patterns, religious activities and beliefs, sex-roles and age-roles, life cycles. *Four credit hours.* MS. POYER

**112 Cultural Anthropology** An intensive study of different societies in the world. The implications of economic, social, and religious systems for men's and women's lives; means of perpetuating and transmitting values. Sources of coherence and continuity in a group; the impact of change in the material and social environment; the effect of culture contact. Information on societies different from our own will be used to explore our accepted notions about society, human nature, ideologies. *Prerequisite:* Anthropology 111 or permission of the instructor. *Four credit hours.*  
MS. POYER

**[211] American Indians** Focus on Maine Indians in the context of the Native American experience throughout North America, including projects dealing with the Maine tribes from an anthropological perspective; fieldwork will be encouraged. *Prerequisite:* An introductory course in anthropology, sociology, American studies, history, or government, or permission of the instructor. *Three credit hours.*

†**[215] Cross-cultural Perspectives on Sex Roles** Female and male roles in a range of different societies. Sources of power and prestige; implications of economic and social arrangements for female and male personality traits and behaviors; socialization and the transmission of values; religious systems. The significance of technology, household and family structure, public decision making to the relative positions of women and men in various societies. The relevance of cross-cultural data to our own assumptions and attitudes about males and females. *Prerequisite:* An introductory course in anthropology, sociology, psychology, biology, or economics, or permission of the instructor. *Three or four credit hours.*

**[217] Cross-cultural Race Relations** An examination of the effects of prolonged contact between racial groups in America, Brazil, and South Africa, focusing on differential access to resources and opportunities, and ending with a brief analysis of the social conditions that encourage either racial harmony or conflict. *Prerequisite:* Either Anthropology 111 or 112 or Sociology 131 or permission of the instructor. *Three credit hours.*

**219d2 Kinship** Kinship and relationships are a central concern of all societies, determining people's interactions and attitudes—especially about courtship, marriage, and the place of children in a society. A look at the different ways in which people define "kin," think about relatives, family, parenthood, and decide about marriage. *Prerequisite:* An introductory course in anthropology, sociology, psychology, religion, philosophy, history, or government, or permission of the instructor. *Three credit hours.* MS. POYER

**[231] Caribbean Cultures** An ethnological survey of Caribbean societies, offering insights into the history, cultures, and social institutions of selected Caribbean groups. *Prerequisite:* Either Anthropology 111 or 112 or Sociology 131. *Three credit hours.*

**232d1 Pacific Islands Cultures** An investigation of both the fantasy and the reality of the Pacific Islands, the geography, economics, kinship and social life, political organization, and religion of aboriginal Pacific peoples, and the history of exploration and colonization of the area by Europeans. *Three credit hours.* MS. POYER

[233] **Anthropology of a Region** A socio-cultural analysis of a selected geographic area. *Three credit hours.*

†[236] **Cultural Ecology** The interactions of humans and their natural environment from the perspective of anthropology. By reading in-depth studies of societies that differ in geographic location, subsistence pattern, cultural form, and perception of the natural world, students will expand their understanding of human cultural diversity and develop new insights into their own society. Introduction to methods and theories of ecological anthropology, and to social science reading, writing, and analysis. Formerly offered as Anthropology 298. *Prerequisite:* Anthropology 111 or 112 or an introductory-level course in biology, environmental science, or geology. *Three credit hours.*

[297] **Ethnohistory** Discussion of the two meanings of "ethnohistory"; (1) the study of unwritten presentation of the past in myth, song, art, and oral tradition; (2) the history of the nonindustrial world as it is known from both written and oral sources. *Three credit hours.*

†[311] **Psychological Anthropology** The links between personality and culture. How individuals fit into a cultural setting yet achieve distinctiveness, how people learn to be what they are, the boundaries a culture puts around growing up, and the relationships between cultural rules and biological, psychological, and environmental constraints. *Prerequisite:* Two courses in any one or combination of the following subjects: sociology, psychology, biology, or philosophy, or permission of the instructor. *Three credit hours.*

†[312] **Ritual and Identity** Stages of life are marked in different societies: initiation rites, marriage and birth customs, rituals of death and mourning. A study of the marking of life-cycle events in a range of societies; the relationship between rites of passage and identity; what rituals imply about female and male roles, personalities, and the bringing up of children. *Prerequisite:* Two courses in any one or combination of the following subjects: sociology, psychology, biology, philosophy and religion, history, American studies, or permission of the instructor. *Three credit hours.*

[397] **Symbolic Anthropology** Culture is a system of symbols and meanings shared by a group of people. An exploration of the processes of the construction and communication of meaning through symbols, using anthropological approaches to analyzing symbols, including structuralism, semiotics, interpretive anthropology, and cultural analysis. *Three credit hours.*

491, 492 **Independent Study** Individual topics in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *Two to four credit hours.* FACULTY

## Art

Chairman, PROFESSOR DAVID SIMON

Professors Harriett Matthews<sup>1</sup> and D. Simon; Visiting Associate Professor Abbott Meader<sup>2</sup>; Assistant Professors Gina Werfel, Sonia Simon<sup>2</sup>, David Lubin<sup>3</sup>, and Michael Marlais<sup>1</sup>; Visiting Assistant Professor Karen McCoy<sup>4</sup>; Visiting Instructor Jackie Donath<sup>3</sup>

The Colby art department includes practicing artists, art historians, and a museum director. With special studios for design, drawing, printmaking, and sculpture, as well as a museum, the department features a curriculum that allows students not only to explore the intrinsic nature of materials and techniques but also to develop their own expressive abilities. Art history offerings are designed with the recognition that the artistic products of any period are related to the social, political, and cultural concerns of that period. Students at Colby are able to approach art from both a practical and historical perspective, and thus are better able to understand the total experience of art.

### Requirements for the Major in Art

Art 111, 112, 131, and one course in each of the following three groups:

- (1) Art 311, 313, 314
- (2) Art 331, 332, 334, 335
- (3) Art 351, 352, 353

and three additional art courses.

The point scale for retention of the major applies to courses taken in the department. No requirement for the major may be taken pass/fail.

Students planning to continue the study of art or art history in graduate school should confer with their advisers to be sure that they have planned a substantial and adequate course of study. Art history graduate programs generally require proficiency in at least one foreign language.

Attention is called to the interdisciplinary major in American studies.

### Requirements for the Concentration in Studio Art

In addition to fulfilling the requirements for the major in art: Art 221, 222, and at least four courses in either sculpture or painting.

### Requirements for the Concentration in Quantitative Analysis

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491; one course from Computer Science 126, 132, 231, Mathematics 115, 117, 119, 121, 123, Philosophy 152, 258.

<sup>1</sup>On leave second semester.

<sup>2</sup>Part-time.

<sup>3</sup>On leave full year.

<sup>4</sup>Second semester only.

**001j Crafts** One or more projects and crafts will be sponsored by the department and supervised by artisans not on the Colby faculty. Projects in the past have included calligraphy, pottery, weaving, photography, and ceramics. *Noncredit.* STAFF

**111, 112 Survey of Western Art** A survey of the history of painting, sculpture, and architecture. First semester: Egyptian pyramids through Gothic cathedrals. Second semester: Renaissance Italy through contemporary America. *Four credit hours.* MR. SIMON AND OTHERS

**131d Foundations in Studio Art** An introduction to traditional methods, materials, and concepts of studio art. No prior studio experience expected. Out-of-class work is essential. *Three credit hours.* MR. MEADER AND MS. WERFEL

**221 Drawing I** Fundamentals of drawing and use of graphic materials. Concern for drawing as a means of developing visual and perceptual awareness. Out-of-class work is essential. *Prerequisite:* Art 131. *Three credit hours.* MS. MATTHEWS

- 222 Drawing II** Continuation of Art 221 with special concern for drawing the figure. Out-of-class work is essential. *Prerequisite:* Art 221. *Three credit hours.*  
INSTRUCTOR
- 232 Design** Exploration of design elements, focusing on aspects of composition and color, as well as basic principles. Out-of-class work is essential. *Prerequisite:* Art 131. *Three credit hours.* MR. MEADER
- 234 Introduction to Graphics** Introduction to methods of generating images from printing surfaces. Concentration on relief printmaking. Out-of-class work is essential. *Prerequisite:* Art 131. *Three credit hours.* INSTRUCTOR
- 241 Painting I** Oil technique, painting from still life, figure, and landscape. Issues of abstraction will also be addressed. Out-of-class work is essential. *Prerequisite:* Art 131. *Three credit hours.* MS. WERFEL
- 242 Painting II** Further exploration of the materials, techniques, and ideas developed in Painting I. Out-of-class work is essential. *Prerequisite:* Art 241. *Three credit hours.* MS. WERFEL
- 261 Sculpture I** An introduction to form and ideas through the use of quick media. Out-of-class work is essential. *Prerequisite:* Art 131 or permission of the instructor. *Three credit hours.* MS. MATTHEWS
- 262 Sculpture II** Further exploration of the materials, techniques, and ideas developed in Sculpture I, stressing more traditional materials. Out-of-class work is essential. *Prerequisite:* Art 261. *Three credit hours.* INSTRUCTOR
- 271 American Art** Architecture, sculpture, and painting from colonial times to the twentieth century. Lectures and problems make use of the original material in the Colby collections. *Three credit hours.* MR. MARLAIS
- [275] **Classics of the Sound Cinema** Selected masterpieces of world cinema (1930-1960). Particular emphasis on developing skills for viewing films as a form of visual art. Enrollment limited. *Three credit hours.*
- [277] **American Visual Arts I** American art and culture from the colonial period, concentrating on the seventeenth, eighteenth, and nineteenth centuries, in terms of changing aesthetic standards as well as social and historical developments. Areas of study include the fine arts, folk art, material culture, and mass media. Cross-listed as American Studies 277. *Three credit hours.*
- [278] **American Visual Arts II** A continuation of Art 277, concentrating on the twentieth century. Cross-listed as American Studies 278. *Three credit hours.*
- 311d2 Art of Ancient Greece and Rome** Architecture, sculpture, and painting from the development of the Minoan civilization through the fall of Rome. *Prerequisite:* Art 111 or permission of the instructor. *Three credit hours.* MR. SIMON
- †[313] **Art of the Early Middle Ages** Painting, sculpture, and architecture from A.D. 315 to A.D. 1000, from the Christianization of Rome through the development of



Byzantine civilization in the East and through the Ottonian Empire in the West. *Prerequisite:* Art 111. *Three or four credit hours.*

†[314] **Art of the High Middle Ages** Romanesque and Gothic painting, sculpture, and architecture in western Europe, from the reemergence of monumental stone sculpture through the exuberance of the Gothic cathedral. Influences of monastery, pilgrimage, and court on art from A.D. 1000 to 1400. *Prerequisite:* Art 111. *Three or four credit hours.*

†[331] **Art of the Renaissance in Northern Europe** 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. *Prerequisite:* Art 111 or 112, or permission of the instructor. *Three credit hours.*

332d1 **Art of the Renaissance in Italy** The art of the fifteenth and sixteenth centuries in Italy, with emphasis on the major architects, sculptors, and painters. *Prerequisite:* Art 111, 112, or permission of the instructor. *Three credit hours.* MS. SIMON

334 **Baroque and Rococo Art in the North of Europe** Painting, sculpture, and architecture of the seventeenth and early eighteenth centuries in Flanders, Holland, England, France, and Germany. Relationships to Spain will also be explored. *Prerequisite:* Art 112. *Three or four credit hours.* MS. SIMON

†[335] **Mannerism and Baroque Art in Italy** Painting, sculpture, and architecture from the late works of Michelangelo in the sixteenth century through the domes of Guarini in the late seventeenth century. *Prerequisite:* Art 112. *Three or four credit hours.*

341 **Painting III** Further exploration of the materials, techniques, and ideas developed in Painting II. Out-of-class work is essential. *Prerequisite:* Art 242. *Three credit hours.* MS. WERFEL

342 **Painting IV** Further exploration of the materials, techniques, and ideas developed in Painting III. Out-of-class work is essential. *Prerequisite:* Art 341. *Three credit hours.* MS. WERFEL

351 **European Art, 1780-1880** Emphasis on European art of the neoclassic, romantic, realist, and impressionist movements. *Prerequisite:* Art 112. *Three or four credit hours.* MR. MARLAIS

352 **Modern Art, 1880-1945** History of avant-garde movements from post-impressionism through German expressionism. *Prerequisite:* Art 112. *Three or four credit hours.* INSTRUCTOR

†[353] **Contemporary Art, 1914 to the Present** History of art from dada and surrealism to our own time. Emphasis on issues of art criticism as well as on current practices. *Prerequisite:* Art 112. *Three or four credit hours.*

361 **Sculpture III** Further exploration of sculptural techniques and ideas. Out-of-class work is essential. *Prerequisite:* Art 262. *Three credit hours.* MS. MATTHEWS

- 362 Sculpture IV** Further exploration of sculptural techniques and ideas. Out-of-class work is essential. *Prerequisite:* Art 361. *Three credit hours.* INSTRUCTOR
- [371] The Graphic Arts** History and criticism of drawing and printmaking, with emphasis on European art since the Renaissance. *Prerequisite:* Art 112 or permission of the instructor. *Three credit hours.*
- [374] Women and Film** A close study of films by and/or about women, their role in society, and issues of gender. Various nationalities and genres of film will be studied, as well as supplemental writings by mainstream and feminist film historians. Enrollment limited. *Prerequisite:* Art 275. *Three credit hours.*
- 441 Painting V** Further exploration of materials, techniques, and ideas developed in Painting IV. Out-of-class work is essential. *Prerequisite:* Art 342. *Three credit hours.* MS. WERFEL
- 442 Painting VI** Further exploration of materials, techniques, and ideas developed in Painting V. Out-of-class work is essential. *Prerequisite:* Art 441. *Three credit hours.* MS. WERFEL
- 461 Sculpture V** Further exploration of sculptural techniques and ideas. Out-of-class work is essential. *Prerequisite:* Art 362. *Three credit hours.* MS. MATTHEWS
- 462 Sculpture VI** Further exploration of sculptural techniques and ideas. Out-of-class work is essential. *Prerequisite:* Art 461. *Three credit hours.* INSTRUCTOR
- 491, 492 Independent Study** Individual study of special problems in the practice, history, or theory of the visual arts. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY
- †[494] Seminar in Art History** Topics in architectural history, a seminar designed to encourage students to question the nature of art history as a humanistic discipline through discussion of the architecture of various periods and analysis of specific buildings. *Prerequisite:* Permission of the instructor. *Three or four credit hours.*

## Astronomy

*In the department of physics and astronomy.*

- 151 Introduction to Stars and Stellar Systems** A descriptive and quantitative survey of stellar, galactic, and extragalactic astronomy. Topics include observational astronomy, stellar structure, classification and evolution, galactic structure, and cosmology. Special topics include pulsars, quasars, and black holes. Laboratory work, which is required, includes both nighttime observing and laboratory astrophysics. Enrollment limited. *Four credit hours.* MR. CAMPBELL
- 152 Historical and Planetary Astronomy** A descriptive study of the history of astronomy and of our planetary system. The history of astronomy from ancient times primarily concerns the planets. Modern planetary astronomy is treated as an obser-

vational science with emphasis on the discoveries of recent interplanetary space probes. Does not satisfy the laboratory science distribution requirement. *Three credit hours.* MR. CAMPBELL

## Biology

*Chairman, ASSOCIATE PROFESSOR ARTHUR CHAMPLIN*

*Professors Miriam Bennett and Thomas Easton; Associate Professors Bruce Fowles, Champlin, David Firmage, Russell Cole, and Jay Labov; Assistant Professors Frank Fekete and Raymond Phillips<sup>1</sup>*

The department of biology provides its students with backgrounds in important aspects of both classical and modern biology—*anatomical, physiological, developmental, evolutionary, behavioral, and ecological.* Graduates enroll in medical schools, dental schools, veterinary colleges, and in graduate programs in biology. Others are employed as research assistants or as teachers at the secondary level. Special facilities include the Perkins Arboretum, the Colby-Marston Bog, and a new microscopy laboratory equipped with both scanning and transmission electron microscopes.

Three major programs are offered by the department. For each, the point scale for retention of the major applies to all courses required for the major and all elected biology courses. No requirement for the major may be taken pass/fail.

### **Requirements for the Basic Major in Biology**

In biology, 32 hours, including 121, 122, 271, 272, 301, 302 (substitutions may be made with departmental approval); Chemistry 141, 142; Mathematics 119, 121 or 123, or equivalent, and one additional mathematics course numbered 112 or higher. The comprehensive examination in the major is to be passed in the senior year.

Biology 121, 122, 271, and 272 constitute a core program and are normally prerequisite to all higher-numbered biology courses. With special permission of the department, a student may arrange to take Biology 271 or 272 and higher-numbered biology courses concurrently.

The inclusion of geology is advised for majors preparing for teaching or for work in the field aspects of biology. Students interested in teaching, private and public, are urged to read the education section of the catalogue and to contact a member of the education department. Students preparing for dental, medical, or veterinary schools should take Mathematics 122 or 124 and must take Chemistry 241, 242, and Physics 121, 122 or 141, 142; students preparing for graduate study in the biological sciences should also elect these courses. For most of these students, at least one further course in mathematics should be elected with the advice of the major department. Requirements for the Ph.D. degree in areas of biological science may include a reading knowledge of two modern foreign languages.

Students are encouraged to take courses at approved summer laboratories; with prior approval, such courses may be credited toward the major requirement.

The **Environmental Science Concentration** is designed to provide the student adequate background to work in the environmental field or to continue on to graduate study in environmental science or in one of the other biological disciplines. The requirements are: in biology, 32 hours, including 121, 122, 271, 272, 301, 302, 352 (with laboratory), 493; Chemistry 141, 142; Economics 133; two courses selected from Geology 141, 142, 172, and Chemistry 217; Mathematics 119, 121 or 123, and either 112 or 241; Sociology 413 or Economics 231. The comprehensive examination in biology is to be passed in the senior year.

Students are encouraged to take at least one field-oriented course such as Biology 354, 358, Sea Semester, or other similar approved programs.

**Requirements for the Concentration in Applied Mathematics**

Computer Science 125; Quantitative Analysis 491; one course from Mathematics 112, 231, 241, 381; two courses from Biology 352, Chemistry 331, 341, Geology 271, Mathematics 272, Psychology 214 and 215.

<sup>1</sup>Part-time.

[095j] **Hospital Internship** Offered in cooperation with Mid-Maine Medical Center. Most students will spend two weeks in orientation, observing in various departments of the center, after which a specific area will be observed more extensively. Designed primarily for juniors and seniors who have an interest in some aspect of the health professions. *Prerequisite:* Permission of the faculty sponsor and the hospital coordinators. *Noncredit.*

[112j] **Heredity and Evolution** An introduction to the basics of heredity and evolution. Lectures only. Does not satisfy the laboratory science distribution requirement. Cannot be counted toward the biology major. Credit may not be obtained for both Biology 112j and 122. Enrollment limited. *Two credit hours.*

121, 122 **Introduction to Biology** First semester: the form, function, and behavior of selected organisms. Second semester: the biology of reproduction, inheritance, and development. Examples will be drawn from a variety of organisms. Lectures presented by several members of the biology faculty in their areas of specialization. Lecture and laboratory. *Four credit hours.* FACULTY

\*133j **Impact of Microorganisms on Man** An exploration of the microbial world. Discussions and lectures will be based on the roles microorganisms play in disease, the food industry, ecology, energy generation, and biotechnology. Cannot be counted toward the biology major. Does not satisfy the laboratory science distribution requirement. *Two credit hours.* MR. FEKETE

134j **Human Evolution** The evolutionary origin of Man through study of selected original papers and short publications. Attention is given to the basic theory of evolution and the forces that are effective in the process. Does not satisfy the laboratory science distribution requirement. Cannot be counted toward the biology major. *Three credit hours.* MR. EASTON

[136] **Horticulture** Basic principles in the areas of plant structure and function will be covered and related to plant cultivation. Practical application of these principles will be discussed in areas such as lighting, propagation, pruning, and floriculture. One field trip will be taken. Does not satisfy the laboratory science distribution requirement. Cannot be counted toward the biology major. Credit may not be obtained for both Biology 136 and 138. Enrollment limited. *Three credit hours.*

[138] **Plant Biology** An introduction to the principles of biology as illustrated by plants, with emphasis on structure, activities, and reproduction of green plants. Does not satisfy the laboratory science distribution requirement. Cannot be counted toward the biology major. Credit may not be obtained for both Biology 136 and 138. Enrollment limited. *Three credit hours.*

**198 Plant Science** An introduction to the principles of biology as illustrated by plants. The course will emphasize expanding areas of biotechnology. Practical applications in areas such as propagation (including tissue cultures), pruning, hormonal control of development, lighting, and floriculture will be included in both lectures and laboratory exercises. May be used to satisfy the laboratory science requirement. Cannot be counted toward the biology major. Enrollment limited. *Four credit hours.* MR. FIRMAGE AND MR. FOWLES

**212 Aspects of Human Physiology** An examination of the human organism and its functions. Topics to be studied will include the basics of biological chemistry and physics, the physiology of metabolism, integration of information via nerves and hormones, circulation, breathing mechanisms, reproduction, excretion, manipulation of the external and internal environment by muscles, and nutrition. History and methodology of human physiology as a science will be examined throughout the course. Cannot be counted toward the biology major. *Prerequisite:* Biology 121. Enrollment limited. Lecture only: *three credit hours*; lecture and laboratory: *four credit hours.* MR. LABOV

**219 Environmental Science** Basic concepts in ecology are examined in detail at the population, community, and ecosystem levels. The relevance of these concepts to current environmental problems is stressed. Does not satisfy the laboratory science distribution requirement. Cannot be counted toward the biology major. Enrollment limited. *Three credit hours.* MR. COLE

**271 Introduction to Ecology; Introduction to Evolution** Part I: introduction to ecological principles—structure and function of natural ecosystems, patterns of distribution, energy flow, nutrient cycling, and population dynamics. Field trips are taken to sites representative of local terrestrial, fresh-water, and marine ecosystems. Part II: introduction to the scope, significance, and mechanisms of evolution. Lecture and laboratory. *Prerequisite:* Biology 121, 122, or equivalent. *Four credit hours.* MR. FOWLES, MR. FIRMAGE, AND MR. COLE

**272 Cell Biology** An introduction to the study of cellular and molecular biology: an examination of the structure and function of nuclear and cytoplasmic components, with emphasis on experimental findings. Instruction in basic histological and cytochemical techniques is included, in addition to studies of selected cellular properties. Lecture and laboratory. *Prerequisite:* Biology 121, 122, 271, or equivalent and Chemistry 141, 142 (may be taken concurrently), or permission of the instructor. *Four credit hours.* MR. CHAMPLIN AND MR. FEKETE

**301, 302 Biology Seminar** Discussion of contemporary topics in biology. Choice of several topics. Nongraded. *Prerequisite:* Junior or senior standing as a biology or geology-biology major. *One credit hour for the year.* FACULTY

†[311] **Taxonomy of Flowering Plants** An introduction to the study of variation, evolution, and classification of flowering plants, and the techniques used by systematists in establishing relationships among plants. Identification of specimens that characterize the major families of flowering plants represented in the local flora is stressed. Lecture and laboratory. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Four credit hours.*

- \*312 Vertebrate Zoology** Classification, distribution, and biology of vertebrates. The adaptive strategies of animals to interactions with the environment, plants, and other animals will be considered. Vertebrates common to New England will be emphasized. Lecture and laboratory. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Four credit hours.* MR. COLE
- 314 Plant Physiology** The essential mechanisms of plant functions. Lecture and laboratory. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Four credit hours.* MR. FOWLES
- 316 Invertebrate Zoology** The morphology, physiology, and classification of the invertebrates. Lecture and laboratory. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Four credit hours.* MISS BENNETT
- 317 Animal Histology** The structure of cells, tissues, and organs, principally of mammals, with aspects of function. Lecture and laboratory. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Four credit hours.* MR. EASTON
- 318 Microbiology** The biology of bacteria and viruses. The aims of the course are to develop general knowledge in this area and to give practical experience in techniques. Lecture and laboratory. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Four credit hours.* MR. FEKETE
- \*319 Biology of the Lower Plants** Comparative studies of the morphology, development, physiology, and significance of algae, fungi, and bryophytes. Lecture and laboratory. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Four credit hours.* MR. FOWLES
- 332 Developmental Biology** A study of development, with emphasis on the experimental findings that have led to present ideas of the morphological and chemical processes underlying the development and growth of organisms. Lecture and laboratory. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Four credit hours.* MISS BENNETT AND MR. CHAMPLIN
- 333 Chordate Evolution** A study of the origins of vertebrate form through consideration of homologies in extinct and living organisms. Lecture and laboratory. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Four credit hours.* MR. EASTON
- \*337 The Reproductive Biology of Flowering Plants** A study of the flowering process in various plant groups and the mechanisms of pollination they employ. Seed production and dispersal as well as vegetational propagation strategies will be considered. Lecture and laboratory. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Four credit hours.* MR. FIRMAGE
- 352 Ecological Theory** An examination of the theoretical aspects of population and community ecology, emphasizing population regulation, demography, trophic relationships and community structure, and succession. Coevolutionary interactions among plants and animals will be considered. Relevance of ecological theory to the solution of environmental problems will be discussed. Lecture and discussion. Augmented credit based on the addition of laboratory work which will focus on

quantitative analysis. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Three or four credit hours.* MR. FIRMAGE AND MR. COLE

†[354] **Marine Biology** A study of marine organisms and their environment with emphasis on coastal systems. Quantitative sampling methods will be utilized in laboratory and field exercises. Occasional weekend field trips to the coast. Lecture, laboratory, and discussion. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Three credit hours.*

**358j, 358 Ecological Field Study** A trip to a south temperate or tropical area during the spring recess or the January term. Students must cover expenses. Graded or nongraded at the discretion of the instructors. *Prerequisite:* Permission of the instructors. *One credit hour.* (January: *three credit hours.*) FACULTY

**371 Genetics** The mechanisms of inheritance, with emphasis on experimental findings. The physical and chemical bases for the behavior of genes in individuals and populations are examined. *Prerequisite:* Biology 271 and 272, or permission of the instructor. Lecture only: *three credit hours*; lecture and laboratory: *four credit hours.* MR. CHAMPLIN

**375 Problems in Comparative Animal Physiology** Studies of the manners in which animals of major phyla cope with their functional problems. Both ecological and evolutionary correlations are stressed. Lecture only. Augmented credit of one hour based on the addition of laboratory studies emphasizing the methods of comparative physiology. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Three or four credit hours.* MISS BENNETT

**377 Topics in Neurobiology** Lectures, discussions, and readings on the functional organization of nervous systems, and on how nervous information is received, coded, stored, and transmitted by living organisms. Augmented credit of one hour based on the addition of laboratory work. *Prerequisite:* Biology 271 and 272, or permission of the instructor. *Three or four credit hours.* MR. LABOV

**378 Animal Behavior** An examination of animal behavior from a biological viewpoint. Topics will include the control, development, function, and evolution of behavior. *Prerequisite:* Biology 271 and 272, or permission of the instructor. Lecture only: *three credit hours*; lecture and laboratory: *four credit hours.* MR. LABOV

**379 Electron Microscopy** Principles and practice of transmission and scanning electron microscopy, including electron optics, imaging, and x-ray microanalysis. The routine operation of both the TEM and SEM will be presented and practiced, as will the principles and techniques of sample preparation from both living and nonliving materials. The interpretation and evaluation of electron photomicrographs and x-ray spectra will be emphasized. Students will have an opportunity to develop further their techniques and expertise in the area of greatest interest to them. Enrollment limited. Lecture and laboratory. *Prerequisite:* Biology 121, 122, Chemistry 141, 142, standing as a junior or senior major in one of the natural sciences, and permission of the instructor. *Four credit hours.* MR. CHAMPLIN

**473 Topics in Molecular Biology** Detailed considerations of the molecular biology of prokaryotic and eucaryotic cells. Topics include molecular evolution; viral

macromolecular assembly; molecular basis of metabolism, contractility, membrane systems, and bioenergetics; enzymes; and molecular immunology. Lecture and laboratory. *Prerequisite:* Biology 271 and 272, Chemistry 241, 242 (may be taken concurrently), or permission of the instructor. *Four credit hours.* MR. FEKETE

**491, 492 Independent Study** Normally open only to senior biology majors. *Prerequisite:* Permission of the department. *One to four credit hours.* FACULTY

**493 Problems in Environmental Science** Normally open only to junior and senior biology majors with the concentration in environmental science for work on environmentally related topics. A group project will be conducted to teach methods used by private firms and governmental agencies to investigate environmental problems. Enrollment limited. *Prerequisite:* Biology 352 with laboratory and permission of the instructor. *Three or four credit hours* (to be determined by the instructors). MR. FIRMAGE AND MR. COLE

## Black Studies

*Director,* ASSOCIATE PROFESSOR ROBERT WEISBROT

*ADVISORY COMMITTEE:* Professors Charles Bassett (English), Patrick Brancaccio (English), Roger Bowen (East Asian Studies), Cyril Daddieh (Government), Henry Gemery (Economics), Beverly Hawk (Government), Paul Machlin (Music), Phyllis Mannocchi (English), Deborah McDowell (English), Jonas Rosenthal (Sociology), John Sweney (English), and Weisbrot (History); and two students

Activities in the area of black studies began at Colby in 1969 with the formation of a black studies subcommittee of the educational policy committee. The work of the committee has involved the encouragement of curriculum development, scholarly exchanges through visiting lecturers, faculty attendance at professional meetings, exchanges of students, and faculty visits to other colleges to keep abreast of developing programs.

Structured around a cluster of courses in anthropology, African and Afro-American history, and Afro-American literature, the black studies program aims to expose students to the history and culture of blacks throughout the African Diaspora. Students interested in the program are strongly encouraged to consider an independent major. Courses in black studies may be applied to the following majors: English, American studies, anthropology, government, and sociology. The history courses listed below may be applied to a field of concentration within the history major.

### Courses Offered in the Black Studies Program

*American Studies:* 276 Black Culture in America.

*English:* 355 Black American Literature; 436 African Prose; 493 or 494 Literature of the Black Woman Writer.

*History:* 277 Afro-American History from Slavery to Freedom; 432 Seminar in Black American Thought and Leadership.

Students interested in black studies should also note the following courses, which deal with various American minority and third-world concerns.

*Economics:* 293 Economic Development; 294 Urban and Regional Economics.

*Government:* 197 African Life and Politics through Literature; 277 African Politics;

298 International Relations of African States; 319 Law and Social Change: Women and Minorities; 397 Conflict and Cooperation in Southern Africa; 398 Political Economy of African Development; 473 Seminar in African Politics.

*Music:* 231 Jazz.



*Religion:* 235 Religions of the Oppressed.  
*Sociology:* 231 Contemporary Social Issues; 252 Race and Minorities; 412 Sociological Issues in Third World Development.

## Chemistry

*Chairman, PROFESSOR WAYNE SMITH*

*Professors George Maier and Smith; Associate Professor Thomas Shattuck; Assistant Professors Gary Mabbott and R. Daniel Libby*

Students in the chemistry department are provided a firm foundation in the fundamental principles of the discipline. The student major has access to a wide range of instruments for course work and research projects under supervision of a faculty that includes teaching specialists in biochemistry, organic, physical, inorganic, and analytical chemistry. Many students go on to graduate school in chemistry or biochemistry or to careers in medicine, dentistry, health-related fields, and industrial research. Other career choices in recent years have included patent law, chemical engineering, environmental studies, computer sciences, and molecular biology.

The department offers several major programs: (1) the basic major, (2) the ACS major (accredited by the American Chemical Society), (3) the major in chemistry-biochemistry, and (4) the major in chemistry-environmental sciences. Of these majors, the ACS major is focused most sharply toward graduate work in chemistry. A student who successfully completes the ACS program receives official certification from the American Chemical Society. It should be noted that chemistry majors who intend to apply for admission to medical, dental, or veterinary schools must take a biology course with laboratory. For maximum flexibility, students are encouraged to take Chemistry 141 and 142 in their freshman year. All prospective majors should meet with the chairman as early as possible in order to plan their full chemistry programs.

Attention is called to the concentrations in public policy and in applied mathematics as well as the interdepartmental geology-chemistry major.

Students interested in teaching, private and public, are urged to read the education section of the catalogue and to contact a member of the education department.

### **Requirements for the Basic Major in Chemistry**

Chemistry 141, 142, 241, 242, 331, 341, 342, 493, 494; Mathematics 121, 122 or 123, 124; Physics 141, 142.

### **Requirements for the ACS Major in Chemistry**

All courses required for the basic major, plus Chemistry 332, 411, 413, and six additional credit hours of 400-level courses. Substitution of upper-level courses from other departments in the science division is often possible.

### **Requirements for the Major in Chemistry-Biochemistry**

Chemistry 141, 142, 241, 242, 341, 467, 468 (with laboratories), 493, 494; Mathematics 121, 122 or 123, 124; Physics 141, 142; Biology 121, 122, 272, and one additional course numbered 200 or higher.

### **Requirements for the Major in Chemistry-Environmental Sciences**

All courses required for the basic major; Chemistry 217, 483, 484; Economics 133, 134, 231; Biology 121, 122 or Geology 141, 142.

### **Requirements for the Concentration in Public Policy**

Chemistry 141, 142, 241, 242, 331, 341, 342; Economics 133; Government 111, 317; Mathematics 121, 122 (or 123, 124); Physics 141, 142; Public Policy 493; two courses

selected from Economics 231, Government 273, 275, 392, or Economics 223 and 312, or Economics 223 and 332; an internship in the junior year.

### Requirements for the Concentration in Applied Mathematics

Mathematics 253; Mathematics 124 or 222; Quantitative Analysis 491; two courses from Computer Science 125, Mathematics 231, 241 and 242, 311, 332, 352, or 381 and 382.

### Additional Requirements for All Majors in Chemistry Department

One January program must be taken in the major. The department strongly urges all majors to fulfill this requirement by doing an independent laboratory project.

All chemistry majors must achieve an acceptable score on the Graduate Record Examination in chemistry during their senior year.

The point scale for retention of the major applies to all required courses and all elected chemistry courses. No requirement for the major may be taken pass/fail.

Seminars are held on Tuesday evenings; chemistry majors are expected to attend, and seniors are required to participate. Summer employment in industrial or professional laboratories at the end of the junior year is encouraged.

Majors in chemistry who have completed the required junior-level courses for the major may elect an honors research project with approval of a faculty sponsor in the department. On successful completion of the work of the honors research program and of the major, their graduation from the College will be noted as being "With Honors in Chemistry." Attention is also called to the Senior Scholars program.

**111 Studies in Environmental Biochemistry** A few situations in which polluting and ultimately toxic chemicals intrude upon the proper functioning of biochemical systems will be studied in great detail. Intended as a nonlaboratory course for nonscience majors. *Three credit hours.* MR. MAIER

**112 Chemistry for Citizens** Basic chemical principles and their application to topics of current concern, such as environmental problems, energy, nuclear reactions, recycling, health, and consumerism. Intended as a course for nonscience majors. Students with prior credit for Chemistry 141 may not receive credit for Chemistry 112. Laboratory portion is optional and satisfies the laboratory science distribution requirement, but enrollment is limited. Lecture only: *three credit hours*; lecture and laboratory: *four credit hours.* MR. SMITH

**115j Radioactivity** The production, detection, uses, biological effects, and waste disposal of radioactive isotopes. Problems inherent in nuclear power considered in some depth. Designed for the nonscience major; will satisfy the non-laboratory science distribution requirement. *Three credit hours.* MR. SHATTUCK

**131j Forensic Chemistry** The literature of popular authors such as Arthur Conan Doyle and Dorothy Sayers serves as a source for discussion of the chemical principles underlying the toxicology and methods of analysis related to crime and chemistry. Historical and current chemical perspectives on such topics as: properties and mechanisms of poisons, fiber, blood and stain identification, trace metal analysis, detection of explosives and fire accelerants. Intended for nonchemistry majors. *Two credit hours.* MR. MABBOTT

**141, 142 General Chemistry and Elementary Analysis** Fundamental principles, with examples selected from inorganic chemistry; stoichiometry; atomic theory; chemical bonding; thermochemistry; gases, liquids, and solids; solutions;

chemical equilibria; electrochemistry; chemistry of certain important elements; radioactivity. Lecture, discussion, and laboratory. The first-semester laboratory is concerned with synthesis and gravimetric analysis, the second with volumetric analysis and qualitative analysis. *Four credit hours.* MR. SMITH, MR. MABBOTT, AND MR. SHATTUCK

†[217] **Environmental Chemistry** Application of chemical principles to such topics as fates and toxicity of heavy metals and organic pollutants in soils and natural water systems, corrosion, complexation, and analytical techniques. *Prerequisite:* Chemistry 142. *Three credit hours.*

[231j] **Gas Chromatography/Mass Spectrometry** The principles of operation and modern analytical practices, including chromatographic theory, mass spectrometric instrumentation, and the interpretation of mass spectra. Laboratory exercises in column preparation, flow rate effects on resolution, quantitative methods of analysis, optimization strategies, computer data manipulations, head space analysis, and amino acid analysis. Lecture and laboratory. Enrollment limited to 12. *Prerequisite:* Chemistry 241. *Two credit hours.*

**241, 242 Organic Chemistry** Theories encountered in Chemistry 141, 142 are used as the basis for a detailed mechanistic study of the relationships among structure, reactivity, and synthesis of organic compounds. Lecture, discussion, and laboratory. The laboratory explores the use of separation techniques, synthesis, and spectral techniques in organic chemistry. *Prerequisite:* Chemistry 142. *Five credit hours.* MR. LIBBY

**331 Chemical Methods of Analysis** A study of fundamentals of analytical chemistry. Lectures are devoted to principles underlying chemical analysis, literature of analytical chemistry, precision, and sources of error. *Prerequisite:* Chemistry 142. *Four credit hours.* MR. MABBOTT

**332 Instrumental Methods of Analysis** Instruction in instrumental methods, including modern electroanalytical methods, absorption spectroscopy, fluorescence, nuclear magnetic and mass spectrometry, and chromatography. *Prerequisite:* Chemistry 331, 342 (may be taken concurrently). *Four credit hours.* MR. MABBOTT

**341, 342 Physical Chemistry** The laws and theories of chemical reactivity and the physical properties of matter. Emphasis is placed on chemical equilibrium, molecular bonding, and the rates of chemical reactions. Major topics in 341: thermodynamics, solutions, and reaction kinetics; in 342: quantum mechanics, spectroscopy, and statistical mechanics. *Prerequisite:* Chemistry 142, Physics 142, and Mathematics 124. *Five credit hours.* MR. SHATTUCK

**411 Inorganic Chemistry** Current models and concepts of inorganic chemistry, with emphasis on both structural and reaction aspects. Topics include bonding and structure, periodic properties, acid-base theories, nonaqueous solvents, applications of thermodynamics, coordination compounds, and selected areas of descriptive chemistry of current interest. Lecture and discussion. *Prerequisite:* Chemistry 342. *Four credit hours.* MR. SMITH

**413 Integrated Laboratory Studies** Synthesis and characterization of organic, inorganic, and organo-metallic compounds. *Corequisite:* Concurrent enrollment in either Chemistry 411 or 431. *One credit hour.* MR. LIBBY AND MR. SMITH

†[431] **Physical Organic Chemistry** Reaction mechanisms, molecular rearrangements, nonclassical carbonium ions, hard-soft acid-base theory, carbenes and nitrenes, qualitative molecular orbital theory, and pericyclic reactions. Lecture. *Prerequisite:* Chemistry 242, 342. *Three credit hours.*

**432d1 Advanced Organic Chemistry** The logic and methods of organic synthesis are explored. The elementary organic reactions studied in Chemistry 241, 242 are augmented and used in the synthesis of biologically and chemically important molecules. The logic of designing synthetic pathways is stressed. Lecture. *Prerequisite:* Chemistry 242 or equivalent. *Two credit hours.* MR. LIBBY

**434 Advanced Physical Chemistry** Use of principles of symmetry and group theory as an aid in understanding chemical bonding and interpreting molecular spectroscopy. Reaction mechanisms of transition-metal complexes and organo-metallics. *Prerequisite:* Chemistry 411. *Three credit hours.* MR. SMITH

**467, 468 Biochemistry** Chemical components of living matter and of the major processes of cellular metabolism, including the fundamental chemical characteristics of biological compounds and enzymatic reactions. Biology 121, 122 are recommended as preparation. *Prerequisite:* Chemistry 242. Lecture only: *four credit hours;* lecture and laboratory: *five credit hours.* MR. MAIER

**478 Seminar in Biochemistry** Reading and discussion of current literature emphasizing a common theme in an emerging area of biochemistry. *Prerequisite:* Chemistry 467 or permission of the instructor. *Two credit hours.* MR. MAIER

**483, 484 Special Topics in Environmental Chemistry** Primarily a laboratory course with emphasis on independent studies of environmentally related topics. A paper and oral presentation are required. *Prerequisite:* Chemistry 217 and permission of the department. *One to three credit hours.* MR. MABBOTT

**491, 492 Independent Study** Laboratory work of a research nature may be arranged with the instructor. Three to nine hours per week. *One to three credit hours.* FACULTY

**493, 494 Seminar** Discussion of topics of current interest in all areas of the chemical literature. *Prerequisite:* Permission of the instructor. *One credit hour.* FACULTY

## Chinese

*In the department of modern foreign languages. All courses in Chinese are part of the East Asian studies program.*

**125, 126 Elementary Chinese** Introduction to spoken and written Mandarin Chinese, to provide a thorough grounding in all the language skills: speaking, listening, reading, and writing. *Four credit hours.* MR. KEENAN

**127, 128 Intermediate Chinese** A continuation of Chinese 126, with greater emphasis on written Chinese. *Prerequisite:* Chinese 126. *Four credit hours.* MR. KEENAN

[251] **Introduction to Chinese Literature in Translation** A survey of Chinese literature in translation from ancient times to the present, covering poetry, plays, novels, and/or prose. *Three credit hours.*

[252] **Introduction to Chinese Literature in Translation** A survey of Chinese literature in translation from ancient times to the present, covering poetry, plays, novels, and/or prose. *Three credit hours.*

[321, 322] **Advanced Chinese** Advanced Chinese language, concentrating on reading, writing, and speaking. *Prerequisite:* Chinese 128 or permission of the instructor. *Three or four credit hours.*

**491, 492 Independent Study** Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *Two to four credit hours.* FACULTY

## Classics

*Additional courses offered by the classics department are listed separately under "Ancient History," "Greek," and "Latin."*

*Chairman, PROFESSOR DOROTHY KOONCE*

*Professors Peter Westervelt<sup>1</sup> and Koonce; Taylor Lecturer Carolyn Higbie; Visiting Assistant Professor Duane Smith*

Students in classics may concentrate in either Greek or Latin literature and civilization or in a combination of both. A wide variety of courses in both fields is provided through the Taylor Lectureship in Classics, which brings a different specialist each year to teach in his or her chosen area of interest. There is also the opportunity to study for a year in Greece or Rome in programs especially designed for American students, as well as occasion for experience in field archaeology through arrangement with other institutions.

### Requirements for the Major in Classics

Two courses numbered 200 or higher in Greek or Latin. Six additional courses selected from at least two of the following categories: two or more courses numbered 300 or higher in the ancient language elected above; two or more courses in ancient history; two or more courses numbered 200 or higher in the other ancient language; two or more courses elected from Classics 177, 178, 232, 234, Art 311, Philosophy 331, or the equivalent.

The point scale for retention of the major applies to all courses in the department. No requirement for the major may be taken pass/fail.

### Requirements for the Major in Classics-English

In classics: either three years of Latin in courses numbered 200 or higher or three years of Greek.

In English: six semester courses approved by the departments.

### Requirements for the Major in Classics-Philosophy

In classics: either three years of Latin in courses numbered 200 or higher or three years of Greek, subject to departmental approval.

In philosophy: 152; 111 or 211; 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. No requirement for the major may be taken pass/fail.

### Requirements for the Concentration in Quantitative Analysis

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491; one course from Computer Science 126, 132, 231, Mathematics 115, 117, 119, 121, 123, Philosophy 152, 258.

The **Classical Civilization Program** is presented for students with an interest in ancient culture who do not wish to pursue study of the ancient languages. In addition to courses in classical literature in translation, ancient history, art, and philosophy, as listed in the catalogue, special courses in various aspects of antiquity are given each year by the Taylor Lecturer in residence. In recent years, these have included Greek and Roman religion, Greek and Roman archaeology, Byzantine history, mythology, and literary criticism. Courses in the program (not a major) are: Classics 133, 232, 234; Ancient History 151, 154, 252, 352, 353; Art 311; Philosophy 331; Classics 177, 178; and Ancient History 177, 178 (177, 178 is a sequence offered each year by the Taylor Lecturer in residence).

The following are courses in classical literature in translation. These courses require no knowledge of Latin or Greek. Attention is called also to courses in ancient history.

<sup>1</sup>On leave full year.

**133 Greek Myth and Literature** Readings will focus on the development of a few well-known myths and will include Homer's *Odyssey*, selections from the lyric poets, and representative tragedies of Aeschylus, Sophocles, and Euripides. *Three or four credit hours.* MISS HIGBIE

†[177] **Topics in Classics** The offerings vary depending upon the particular field of the Taylor Lecturer. May be repeated for credit. *Two or three credit hours.*

**178 Roman and English Satire** An examination of the Roman verse satire of Horace, Perseus, and Juvenal; the influence of the Roman tradition on the poetry of the great English satirists, including Dryden, Swift, Pope, and Johnson. *Two or three credit hours.* MR. SMITH

[232] **Greek Tragedy** The development of tragedy as a dramatic form and its relationship to the contemporary changes in Athenian democracy. Readings will include major plays of Aeschylus, Sophocles, and Euripides, and the parody of tragedy in the *Frogs* of Aristophanes. *Three or four credit hours.*

†[234] **The Heroic Ideal in Early Greek Poetry** Particular emphasis on Homer's *Iliad* and the odes of Pindar, with some attention to modifications of the heroic ideal that appear in Attic tragedy. *Three or four credit hours.*

**491, 492 Independent Study** Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *One to three credit hours.* FACULTY

# Computer Science

*In the department of mathematics. A concentration in computer science is offered. See "Mathematics."*

**125d Introduction to Computer Science I** An introduction to computer science focused on problem solving and programming using the PASCAL language. Algorithm development, control structures, and data structures and their implementation in PASCAL. *Four credit hours.* MR. SKRIEN

**[126] Introduction to Computer Science II** A continuation of Computer Science 125. Concentration on advanced programming techniques, including dynamic data structures and recursion. The theory and analysis of algorithms and applications of finite automata will be introduced. *Prerequisite:* Computer Science 125 or permission of the instructor. *Four credit hours.*

**132 Computer Organization and Assembly Language** Introduction to computer organization (memory, processors, input/output, virtual machines) and assembly language (data representation, machine instructions, system calls). *Prerequisite:* Computer Science 125 or permission of the instructor. *Three or four credit hours.* MR. HOSACK

**231 Data Structures and Algorithms** An introduction to the primary data structures and the algorithms that operate on them. Data structures to be studied include arrays, graphs, trees, stacks, and queues. The algorithms include searching, sorting, insertion, deletion, and traversal. *Prerequisite:* Computer Science 125. *Three or four credit hours.* MR. HOSACK

**378 Introduction to the Theory of Computation** Listed as Mathematics 378 (q.v.). *Three credit hours.* INSTRUCTOR

**491, 492 Independent Study** Independent study in an area of computer science of particular interest to the student. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY

# East Asian Studies

*Directors, ASSOCIATE PROFESSORS LEE FEIGON AND ROGER BOWEN*

*ADVISORY COMMITTEE: Professors Bowen (Government), Feigon (History), Linda Fujie (Music), David Keenan (Chinese), Tamae Prindle (Japanese), Nikki Singh (Philosophy and Religion)*

The East Asian studies major contributes a new dimension to the traditional liberal arts curriculum by exposing the student to rich cultures outside the scope of Western civilization. Study abroad during the junior year is strongly encouraged; see "Junior Year Abroad" for information about the Associated Kyoto Program, the CIEE Program in the People's Republic of China, the Colby program in Beijing, and Colby's exchange

agreement with Kansai University of Foreign Studies in Japan. Other foreign study possibilities include Hong Kong and Taiwan.

### Requirements for the Major in East Asian Studies

A minimum of two years of training in an East Asian language, East Asian Studies 151, 152, and 13 additional credit hours obtained from courses in East Asian studies in at least three different disciplines, to include at least one seminar or independent study project in the major.

The point scale for retention of the major applies to all courses offered toward the major. No requirement for the major may be taken pass/fail.

### Courses in East Asian Studies Approved for the Major

*Chinese:* 125, 126 Elementary Chinese; 127, 128 Intermediate Chinese; 251 Introduction to Chinese Literature in Translation; 252 Introduction to Chinese Literature in Translation; 321, 322 Advanced Chinese; 491, 492 Independent Study.

*East Asian Studies:* 151, 152 Self, State, and Society in East Asia; 231, 232 Literatures of China and Japan in Translation; 491, 492 Independent Study.

*Government:* 237 Political Development in Modern Japan; 254 Comparative Communism; 271 War and Revolution in Vietnam; 358 Contemporary Japanese Politics; 477 Seminar in East Asian Politics.

*History:* 215 America and Asia: Attitudes and Relationships; 216 The Chinese Revolution; 239 January on the Trans-Siberian Railroad; 317 The Introduction of Marxism into China; 318 The People's Republic of China; 457 Seminar in Modern Chinese History.

*Japanese:* 125, 126 Elementary Japanese; 127, 128 Intermediate Japanese; 321, 322 Advanced Japanese; 491, 492 Independent Study.

*Music:* 173 Introduction to World Music; 274 Popular Music of Japan.

*Philosophy:* 255, 256 Indian Thought; 391, 392 Philosophy Seminar (when appropriate).

*Religion:* 211 Religions of India; 212 Religions of China and Japan; 213 Contemporary Asian Ideas and Values; 218 Buddhist Literature in Asia; 231 Myth and Mind: Ways of Envisioning the World; 391, 392 Religion Seminar (when appropriate).

**151, 152 Self, State, and Society in East Asia** An introduction to the society and culture of East Asia, focusing on the elite and popular culture of the region as personified by the great historical personalities of China and Japan. Topics in the history, philosophy, religion, language, literature, and government of the area will be discussed. *Four credit hours.* MR. FEIGON AND MS. FUJIE

**231, 232 Literatures of China and Japan in Translation** A critical examination of the literatures of China and Japan through the study of myth, fiction, drama, poetry, and essays in translation. In the first semester the course will focus on seminal masterpieces in both popular and classical traditions, seeking to discern what is unique and what is shared in both contexts. The second semester will continue with works from later periods, weighing the burden of the past on the writers of more recent times. *Four credit hours.* MR. KEENAN AND MS. PRINDLE

**491, 492 Independent Study** Individual study of special problems in East Asian civilization, offered in the departments that participate in the program. *Prerequisite:* Permission of the instructor and the program director. *One to four credit hours.*



# Economics

Chairman, PROFESSOR THOMAS TIETENBERG

Professors Jan Hogendorn<sup>1</sup>, Henry Gemery, James Meehan, and Tietenberg; Visiting Associate Professor Randy Nelson<sup>2</sup>; Assistant Professors Kristin Hallberg<sup>3</sup>, Fred Moseley<sup>3</sup>, and William O'Neil<sup>3</sup>; Visiting Assistant Professors John Hughes and Patrice Jones<sup>4</sup>; Instructors Bruce Vermeulen<sup>5</sup>, David Findlay, John Santos, and Charles Grim

In addition to dealing with the study of business behavior, consumers, inflation, and unemployment, economic tools find increasing use in other social sciences, with the skills of the economist central to studies of sex, race discrimination, energy, technology, government behavior, environment, the population explosion, crime, and other issues of public and private life. The economics department provides a wide selection of courses with which to help analyze problems arising in these areas. The major prepares the undergraduate with a good background for employment and graduate work in numerous fields, including, in particular, business, law, government, and education.

Attention is called to the interdisciplinary program in public policy and to the honors program (see description under Economics 491, 492).

## Requirements for the Major in Economics

Economics 133, 134, 223, 224, 391; Mathematics 119 or 121; either Mathematics 231 or one of the two-course sequences 241, 242 or 381, 382; one of the senior seminars numbered Economics 431, 494, or Public Policy 493; three additional courses in economics, of which two must be numbered 300 or above (at least one of the 300-level courses must be taken at Colby). Administrative Science 311 or Computer Science 125 may be used to satisfy the non-300-level elective requirement.

Students who wish to be recommended for graduate work in economics are urged to elect Economics 336, 393, and 431.

Seniors may be invited by the department to prepare a thesis in the second term, successful completion and defense of which will result in the degree being awarded "With Honors in Economics."

The point scale for retention of the major applies only to courses in economics and to Mathematics 231, except that Administrative Science 311 or Computer Science 125 will be counted if substituted for courses in advanced economics in fulfilling the major requirement. No requirement for the major may be taken pass/fail.

## Requirements for the Major in Economics-Mathematics

Economics 133, 134, 223, 224, 393; one of the senior seminars numbered 431, 494, or Public Policy 493; nine additional credit hours in elective economics courses, six of which must be numbered 300 or higher. Mathematics 222, 253, 381, 382, and two additional courses numbered 300 or higher.

The point scale for retention of the economics-mathematics major applies to all courses offered toward the major. No requirement for the major may be taken pass/fail.

## Requirements for the Concentration in Quantitative Analysis

Computer Science 125; Quantitative Analysis 111, 491; two courses from Economics 336, 393, Mathematics 272.

<sup>1</sup>On leave second semester.

<sup>2</sup>Second semester only.

<sup>3</sup>On leave full year.

<sup>4</sup>First semester only.

<sup>5</sup>Part-time.

**133d Principles of Microeconomics** Principles of microeconomics and their applications to modern economic problems: prices, markets, monopoly power, income distribution, and problems of the environment. Formerly listed as Economics 132. *Three or four credit hours.* FACULTY

**134d Principles of Macroeconomics** Principles of macroeconomics and their applications to modern economic problems: national product and income accounting, monetary and fiscal policy, inflation, unemployment, and growth. Formerly listed as Economics 131. *Three or four credit hours.* FACULTY

[217, 218] **Seminars: Economic Analysis and Policy** The methods of economic analysis studied in Economics 133, 134 will be applied to various matters of current economic policy. Each section will consider different policy problems, examples of which might include the economics of warfare, welfare, the mystique of growth, law and economics, energy problems, economics of transport and location, poverty and discrimination, the economics of education and medicine, and radical economics, including a critique of "orthodox" economic theory and an extensive reading of the current literature in radical economics. A description of the topics offered by section will be available at registration. *Prerequisite:* Economics 133 and/or 134 depending on offering. *Three or four credit hours.*

**223 Microeconomic Theory** The theory of the pricing, distribution, and allocation of resources in a market economy. Emphasis will be placed on the various meanings of economic efficiency. *Prerequisite:* Economics 133, 134. *Four credit hours.* MR. GRIM AND MR. MEEHAN

**224 Macroeconomic Theory** Analysis of the theories of national income determination, the factors affecting employment, and the price level. An emphasis on the choice of fiscal and monetary policies and current issues in the conduct of stabilization policy. *Prerequisite:* Economics 223. *Four credit hours.* MR. FINDLAY AND MR. SANTOS

**231d2 Introduction to Environmental Economics** An introductory survey course using economic analysis to explain the underlying behavioral causes of environmental and natural resource problems and to evaluate the policy responses to them. Topics covered include air and water pollution, toxic substances, the allocation of exhaustible mineral resources, and the inevitability and desirability of limiting economic growth. *Prerequisite:* Economics 133. *Three or four credit hours.* MR. TIETENBERG

†[256] **Unions, Collective Bargaining, and Public Policy** Structure and behavior of American unions. Development of public policy towards unions and collective bargaining. Impact of unions on relative earnings, unemployment, and inflation. Special topics include the resolution of industrial disputes, discrimination, and unionism in the public sector and white collar occupations. *Prerequisite:* Economics 133, 134. *Three or four credit hours.*

†[258] **Business Cycles in United States History** A focus on three major periods of depression in United States history: the 1830-1840s, the 1870-1890s, and the 1930s. The objectives are to analyze the causes of the recurring depressions and

to examine the effects of depressions on the structure of the economy, on government policies, and on the literature of the period. *Prerequisite:* Economics 134, or permission of the instructor. Cross-listed as American Studies 256. *Three credit hours.*

**272d1 European Economic History** The framework of economic analysis applied to European historical patterns and trends. Aspects of industrialization, capital accumulation, technological change, trade and migration, and effects of entrepreneurial and governmental decisions. *Prerequisite:* Economics 133, 134. *Three or four credit hours.* MR. GEMERY

**274 American Economic History** The framework of economic analysis applied to American historical patterns and trends. Aspects of industrialization, capital accumulation, technological change, trade and migration, and effects of entrepreneurial and governmental decisions. *Prerequisite:* Economics 133, 134. *Three or four credit hours.* MR. GEMERY

**275d2 Comparative Economic Systems** Examination of the structure and performance of planned and market economies, with emphasis on the former. Specific economies studied include those of Russia, China, Cuba, Japan, and Western Europe. *Prerequisite:* Economics 133, 134. *Three or four credit hours.* MS. JONES

**[277] International Finance** The analysis of international monetary relations. Topics include foreign exchange markets, capital flows, the balance of payments, adjustment to balance of payments disequilibrium, international monetary organizations, and monetary reform. *Prerequisite:* Economics 133, 134. *Three or four credit hours.*

**278d1 International Trade** The analysis of international trade. Topics include theories of international trade, the gains from trade, the impact upon factor incomes, commercial policy, commodity agreements and cartels, and international trade organizations. *Prerequisite:* Economics 133, 134. *Three or four credit hours.* MR. HOGENDORN

**293 Economic Development** The developing areas and their prospects for economic betterment. Analysis of the techniques involved and the problems to be encountered in the growth process. *Prerequisite:* Economics 133, 134. *Three or four credit hours.* MS. JONES

**[294] Urban and Regional Economics** Economic forces that shape the size, structure, and growth of cities; an assessment of the nature of urban problems and desirability of alternative solutions. Topics include urban transportation, housing, land use, racial conflict, and the current fiscal crisis. *Prerequisite:* Economics 133, 134. *Three or four credit hours.*

**312d1 Topics in Law and Economics** A seminar examining the common law and the legal system from the point of view of economic theory. The focus is on the effect of the legal system on allocation of resources, both as a substitute for and a complement to the market system. Specific topics to be examined include: the definition and allocation of property rights, the assignment of liability for accidents and defective products, and the effects on the criminal justice system of plea bargaining

and the bail system. Research paper required; may be done for fourth credit or as Economics 391. Enrollment limited. *Prerequisite:* Economics 223. *Three or four credit hours.* MR. TIETENBERG

[314] **Economics of Population** Application of economic analysis to the study of the size and characteristics of human populations; interrelation between economic and population growth in lesser-developed and developed countries; analysis of marital and fertility patterns in the United States, with emphasis on the changing economic role of women; related public policy issues, such as welfare reform, sexual discrimination, and education. *Prerequisite:* Economics 223. *Three or four credit hours.*

331d2 **Industrial Organization and Antitrust Economics** An examination of the structure, conduct, and performance of American industries to determine if the market process efficiently allocates resources to meet consumer demand. An economic analysis of the antitrust laws and an evaluation of their performances. Reference will be made to specific industries and cases. *Prerequisite:* Economics 223. *Three or four credit hours.* MR. MEEHAN

[332] **Regulated Industries** An examination of specific regulated markets and the rationale for regulation in each. The economic effects of regulation on price, cost of production, and quality of product or service will be explored. The success of regulation will be evaluated relative to the market outcome that would be expected in the absence of regulation. Research paper required; may be done for fourth credit or as Economics 391. *Prerequisite:* Economics 223. *Three or four credit hours.*

336 **Mathematical Economics** An examination of selected topics in economic theory using higher mathematics including advanced calculus, linear algebra, and set theory. Topics include the development of portions of consumer and producer theory, the study of static and dynamic models from macro theory and international finance, and the consideration of general equilibrium analysis. Cross-listed as Mathematics 336. *Prerequisite:* Economics 223 or 224 and Mathematics 124 or 222. *Three credit hours.* MR. GRIM AND MR. LANE

338d1 **Money, Banking, and Monetary Policy** Monetary theory and the banking system of the United States, including problems of money and prices, proper organization and functioning of commercial banking and Federal Reserve systems, monetary standards, and credit control. Analysis, description, and evaluation of monetary policies and their administration. Recent monetary and banking trends. Criteria for appraising monetary performance. Research paper or Economics 391 required. *Prerequisite:* Economics 224. *Three or four credit hours.* MR. FINDLAY

351 **Public Finance** Economics of the public sector. Topics include trends in and theories of government spending, externalities, voting mechanisms, social security, welfare programs, tax structure, and tax reform. *Prerequisite:* Economics 223. *Three or four credit hours.* MR. GRIM

†[352] **Fiscal Policy** The effects of fiscal policy on resource allocation, economic growth, inflation, unemployment, and the public debt. Theory and development of fiscal policy in a federal system. *Prerequisite:* Economics 224. *Three or four credit hours.*

**355d2 Labor Market Economics** Wage determination and allocation of human resources in union and nonunion labor markets. Theories of labor supply, labor demand, and human capital investment. Related public policy issues, such as minimum wage laws, income maintenance, and discrimination. Impact of collective bargaining. Inflation, unemployment, and macroeconomic policy. *Prerequisite:* Economics 223, 224. *Three or four credit hours.* MR. SANTOS

[376] **Marxian Economic Theory** The Marxian theory of capitalist economies as presented in the three volumes of *Capital*. Marxian theory applied to analyze the current economic problems of unemployment, inflation, etc., and to assess the effectiveness of government policies to solve them. Comparisons between Marxian theory and the orthodox theories of micro- and macroeconomics. *Prerequisite:* Economics 224. *Three or four credit hours.*

†[379] **Seminar in Environmental Economics** Current theoretical and empirical contributions to the field of environmental economics. Topics include economic incentives for environmental improvement, environmental control and economic growth, the theory of depletable resources, and the effects of environmental control on the new international economic order. *Prerequisite:* Economics 223. *Three or four credit hours.*

**391d Analytical Research Paper in Economics** An analytical, not descriptive, research paper in economics, to be coordinated with an economics course numbered above 250 in which the student is concurrently enrolled. Required of all economics majors. *Prerequisite:* Permission of the instructor. *Two credit hours.* FACULTY

**393 Econometrics** Introduction to applied econometrics. Parameter estimation, inference, and hypothesis testing. Problems of designing econometric models. Research paper required; may be done for fourth credit or as Economics 391. *Prerequisite:* Economics 223 or 224, Mathematics 231 or 242 or 382. *Three or four credit hours.* MR. SANTOS

**398 The Economics of Poverty in America** A close look at the empirical evidence of poverty in this country, to provide understanding of its toll in human deprivation. Economic theories of income distribution and poverty; alternative welfare and antipoverty policies. *Prerequisite:* Economics 223, 224. *Three or four credit hours.* MR. VERMEULEN

**431 History of Economic Thought** An examination and appraisal of the development of economic theory. Major writing from the mercantilist period through the Keynesian period is included. Extensive use of source material. Enrollment limited. *Prerequisite:* Economics 223, 224, and senior standing. *Three or four credit hours.* MR. GEMERY

**491, 492 Independent Study** Independent study devoted to a topic chosen by the student with the approval of the department. *Prerequisite:* Senior standing as economics major. *One to four credit hours.* FACULTY

**494d Senior Seminar** A seminar addressed to topics in public policy analysis, interdisciplinary issues, or research. Topics considered will change each semester; a

complete description will be published before registration. Enrollment limited. *Prerequisite:* Senior standing as economics major. *Four credit hours.* FACULTY

## Education

*Chairman,* PROFESSOR HAROLD JACOBSON

*Professor Jacobson; Associate Professor Marilyn Mavrinac<sup>1</sup>; Assistant Professor Robert Pfeiffer<sup>2</sup>*

Education is *not* a major but an interdisciplinary program open to sophomores, juniors, and seniors. It provides all students with an opportunity to study education in general and schools in particular, seeking to inform and illuminate them on the large issues about education in society. Today education is a major national concern, calling for sound judgment from liberally educated citizens who understand the role of the schools. This is especially important for Colby graduates because they become leaders in American life—leaders who need to be enlightened and committed concerning the vital part education plays in the nation.

The education program also provides students with preparation needed to qualify for and succeed in graduate schools of education.

Finally, since its founding in 1813, Colby has prepared leaders for America's classrooms and for school administrative positions. The education program offers students an opportunity to qualify for careers and jobs in public and private schools, colleges, and universities. The College maintains that the best preparation for teaching is a strong background in the liberal arts, intensive study in the major, and teacher-education courses and practica.

Because the interdisciplinary program in education is not a major, it allows students to pursue studies in their fields of interest and simultaneously (1) to qualify fully for public and private secondary-school teaching and a teaching certificate in English, social studies, science, mathematics, Latin, American studies, and modern foreign languages or (2) to begin preparation for teaching other levels and teacher certification in early childhood, special subjects, elementary, and types of special education.

Colby's teacher-education program is approved by the State of Maine under the standards of the Interstate Certification Project. The Maine secondary-school teaching certificate is honored in many other states. Candidates for the Maine secondary-school teacher certificate must take qualifying examinations in communication skills, general knowledge, and professional knowledge. To receive an institutional recommendation for the teacher certificate, candidates must have demonstrated serious commitment to teacher preparation, above-average academic performance in courses, and above-average teaching performance in the practica. No requirement for the certificate may be taken pass/fail.

### Practica

Early and continuous practical experience with learners is a major strength of Colby's education program. Career benefits include the development of a network of professional contacts, the opportunity to test career plans, and the accumulation of references valuable for later employment search.

Practica are the laboratory component in the education sequence and are available at several levels: elementary, middle and junior high, and senior high school. Specific practica are required for certification.

Students who plan to teach in public and private schools should confer with members of the education department as soon as possible. Career guidance and counseling services are also available at the education department offices.

**Required Program of Studies for the Secondary-School Teacher Certificate (grades 7-12)**

Education 231, 251 or 351, 433, and 435; Philosophy 333; Psychology 111 and 258. In addition, English 411 is required for students majoring in English, and Modern Foreign Languages 411 is required for students majoring in a modern foreign language.

<sup>1</sup>On leave first semester; part-time second semester.

<sup>2</sup>Part-time

**213d School and Society** What is the role of the school in society? The course examines three case studies: Nazi Germany, with emphasis on the Holocaust and human behavior; Turkey, with focus on the Armenian genocide; and the United States, with concern for decision making in the nuclear age. *Prerequisite:* A cumulative grade point average of 2.5 or higher is expected. *Three credit hours.* MR. JACOBSON

**231 The Craft of Teaching** What knowledge is of most importance? How should such knowledge be organized and taught? How is student achievement measured and evaluated? The general principles of curriculum planning and instruction, including the use of media and materials. Emphasis is on the scientific basis of the art of teaching. Each student will design a curriculum unit in a commonly taught elementary or secondary school subject. Directed participant-observer exercises in the area elementary and/or secondary schools. *Four credit hours.* MR. JACOBSON

**251j Practicum in Elementary School** Five days per week to be served as an assistant teacher in an elementary school, helping children to learn and working with cooperating teacher(s) and support personnel. Each student will maintain a journal, prepare sample lesson plans, and write critical evaluations. Nongraded. *Prerequisite:* Permission of the instructor. *Three credit hours.* MR. PFEIFFER

**253, 254 Practicum in Elementary School** Five hours weekly to be served as an assistant teacher in a local elementary school; written exercises and evaluations via individual and group projects. Nongraded. *Prerequisite:* Permission of the instructor. *Two or three credit hours.* MS. MAVRINAC AND MR. PFEIFFER

**294 Women in Professions** Historical analysis of American women's move into higher education and professions with French and English comparisons. Changing opportunities and norms will be discussed through common readings and individual projects and interviews. *Two or three credit hours.* MS. MAVRINAC

**298 Theory and Practice of Counseling** Designed to introduce several theories of counseling to interested students with little or no prior experience in the field, this course includes student participation in theory-by-theory discussions, role plays, and practice sessions. The final few weeks include placement in social service and educational settings to observe professional counselors. *Three credit hours.* MR. PFEIFFER

**336 The American School** How has education transmitted culture across the generations, and how has it nurtured the development of the individual? What were the major turning points in the evolution of the American school, and how did the school relate to other institutions in society? How are schools organized and controlled, and how is power distributed and used – by whom? What factors shape a national system of education? The course centers on the United States but also examines other countries and their school systems. *Three credit hours.* MR. JACOBSON

**351j Practicum in Middle and Junior High School** Five days per week to be served as an associate teacher in a junior high school, helping adolescents to learn and working with cooperating teacher(s) and support personnel. Each student will maintain a journal, prepare sample lesson plans, and write critical evaluations. Non-graded. *Prerequisite:* Permission of the instructor. *Three credit hours.* MR. PFEIFFER

**353, 354 Practicum in Middle and Junior High School** Five hours weekly to be served as an associate teacher in a local junior high school; written exercises and evaluations via individual and group projects. Nongraded. *Prerequisite:* Permission of the instructor. *Two or three credit hours.* MS. MAVRINAC AND MR. PFEIFFER

**433, 434 Student Teaching: Practicum** Five hours weekly to be served as a student teacher in a local secondary school, working under the direct supervision of a cooperating teacher. Emphasis is on curriculum planning and instruction. Written exercises and evaluations via individual and group projects. Weekly seminar held on campus. Nongraded. *Prerequisite:* Permission of the academic department and the instructor; a 3.0 grade point average in the major is expected in a commonly taught secondary school subject. *Three credit hours.* MR. JACOBSON

**435j Student Teaching: Practicum** Five days per week to be served as a student teacher in a secondary school, helping adolescents to learn and working with cooperating teacher(s) and support personnel. The student teacher is expected to assume full responsibility for teaching three classes daily, including planning and presenting unit and daily lesson plans, and testing and evaluating student performance. Non-graded. *Prerequisite:* Permission of the academic department and the instructor. *Three credit hours.* MR. JACOBSON

**491, 492 Independent Study** Independent study of advanced topics and areas of individual interest. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY

## English

Chairman, PROFESSOR JOHN R. SWENEY

Professors Mark Benbow, Douglas Archibald, Colin MacKay, Eileen Curran, Patrick Brancaccio, Charles Bassett, Howard Koonce<sup>1</sup>, John Mizner, Edwin Kenney, Sweney, and Susan Kenney<sup>2</sup>; Associate Professors Ira Sadoff, Dianne Sadoff, Peter Harris, Phyllis Mannonchi, Deborah McDowell<sup>3</sup>, Eric Binnie, Patricia Onion<sup>1</sup>, Jean Sanborn<sup>2</sup>, and Robert Gillespie<sup>2</sup>; Assistant Professors Natalie Harris, Linda Tatelbaum<sup>2</sup>, and Garry Leonard;



*Visiting Assistant Professors Robert Farnsworth<sup>2</sup> and Don Snyder<sup>2</sup>; Visiting Instructors David Mills<sup>2</sup>, Lorna Rooks-Hughes<sup>2</sup>, and Leanne Star<sup>2</sup>*

The English department offers literature courses in all the periods, genres, and major authors, as well as seminars in particular topics and broad literary and historical issues. There is a creative writing program in both fiction and poetry at the introductory, intermediate, and advanced levels. The department also sponsors special-topic courses and supervises about 50 independent-study projects each year. Committed to interdisciplinary studies, the department encourages team-taught courses with colleagues in chemistry, government, history, philosophy, sociology, and other departments. English is one of the most useful preprofessional majors for those who want to attend graduate schools of law, medicine, and business, as well as for those seeking jobs in commerce, industry, and government. Some majors become college or school teachers; some go into related work, such as journalism, library science, or publishing. Students interested in teaching, private and public, are urged to read the education section of the catalogue and contact a member of the education department.

### **Requirements for the Major in English and American Literature**

For the classes of 1987, 1988, and 1989: English 152, 221, 222, 251, and eight courses numbered 300 or higher; English 252 may be substituted for one of the eight. At least three of these must be courses in which the major focus is upon literature written before 1800, and at least three must be courses in which the major focus is upon literature written after 1800. English 411 does not count toward the major.

Beginning with the class of 1990: English 221, 222, 251, and eight courses numbered 300 or higher. English 252 may count as one of the eight. At least four of these must be courses in which the major focus is upon British literature written before 1900 and at least two must be courses in which the major focus is upon British literature written after 1900 or upon American literature. English 411 does not count toward the major. English 152 is strongly recommended.

The point scale for retention of the major applies to all English courses that may be used to fulfill major requirements. No requirement for the major may be taken pass/fail.

Students planning to continue the study of English in graduate school should confer with their advisers to be sure that they have planned a substantial and adequate curriculum. They should be proficient in at least one foreign language. Most universities require two languages, and some require a classical language as well. Work in classical or foreign literature, history, philosophy, art, music, and some of the social sciences reinforces preparation in the major and enhances one's chances of success in graduate study.

### **Requirements for the Concentration in Creative Writing**

The concentration consists of at least one introductory, one intermediate, and one advanced writing course, plus either an independent study (in which the student will write and revise a portfolio of poems or stories) or the repetition of the advanced writing course incorporating the portfolio requirement. The portfolio, like an honors thesis, is to be read and approved by two creative writing teachers. Students electing the concentration in creative writing are responsible for completing all the traditional requirements for the major in English.

### **Requirements for the Concentration in Quantitative Analysis**

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491; one course from Computer Science 126, 132, 231, Mathematics 115, 117, 119, 121, 123, Philosophy 152, 258.

The department encourages interdepartmental and interdisciplinary studies, and supports programs in American studies, black studies, women's studies, and performing arts.

<sup>1</sup>Resident director, London Program in Theater and Drama.

<sup>2</sup>Part-time.

<sup>3</sup>On leave first semester.

**111, 112 Writing Laboratory** Individual or small-group tutorial for students with basic language and/or writing difficulties, whether foreign students or native speakers of English. May be taken before English 115 for three credits or concurrently with English 115 for one credit. Nongraded. *One or three credit hours.* MRS. SANBORN

**115d, 115j English Composition** Frequent practice in expository writing to foster clarity of organization and expression in the development of ideas. The assigned reading will vary from section to section, but all sections will discuss student writing. Required for freshmen unless exempted. *Four credit hours (three credit hours in January).* FACULTY

**152d, 152j Introduction to Literature** Poetry, prose, and drama from different times and cultures. Topics and texts will vary from section to section, but all sections will emphasize close reading, detailed analysis of imaginative literature, and careful critical writing. *Prerequisite:* English 115 or exemption. *Four credit hours (three credit hours in January).* FACULTY

**[215] Intermediate Expository Writing** Frequent practice for students who wish to improve their ability to write papers and essays. Focus will be on development and problems of rhetorical structure. May be repeated for credit. *Prerequisite:* English 115. *Four credit hours.*

**[216] Expository Writing Workshops** Workshops for students wishing to improve their ability to write on topics studied in other courses. Student papers will be presented for workshop criticism so that they may be revised. Focus on problems of stylistic consistency and force. May be repeated for additional credit. *Prerequisite:* English 115. *Four credit hours.*

**217d Creative Writing: Poetry** Introduction to the writing of poetry, with emphasis on student manuscripts. Enrollment limited. *Prerequisite:* English 115. *Three credit hours.* MR. FARNSWORTH

**218 Creative Writing: Fiction** Introduction to the writing of fiction, with emphasis on student manuscripts. Enrollment limited. *Prerequisite:* English 115. *Three credit hours.* FACULTY

**221d, 222d Major British Writers** An introduction to British literature, with emphasis on detailed analysis and comparative readings, and some attention to the various methods of inquiry and attempts at understanding. 221: *Beowulf* through Milton. 222: Dryden to the beginnings of the modern movement. *Three credit hours.* FACULTY

**251d, 251j Major American Writers I** An introduction to American literature—the Puritans to the Civil War—with emphasis on detailed analysis and comparative readings, and some attention to the various methods of inquiry and attempts at understanding. In January, poetry and prose of the period will be explored through the techniques of drama—readings, improvisations, body movement, scenic analysis, and performance. Format will be away from lecture and discussion and toward the participatory spirit of the performance group. *Three credit hours.* FACULTY

**252d Major American Writers II** An introduction to American literature—the Civil War to the modern period—with emphasis on detailed analysis and comparative readings, and some attention to the various methods of inquiry and attempts at understanding. *Three credit hours.* FACULTY

[275] **The Art of the Narrative Film** The elements of structure, characterization, imagery, and style as they contribute to the awareness of meaning and to aesthetic response in various classic examples of filmmaking. *Three credit hours.*

[276] **Dante in Translation** The *Vita Nuova* and the *Divine Comedy*, drawing upon the philosophy, theology, art, and literature of the period. No knowledge of Italian required. *Three or four credit hours.*

\*278 **Italian Fiction and Film** The fall of fascism and postwar Italy as interpreted by Italian writers and filmmakers. Readings in translation will be drawn from the works of Levi, Silone, Pavese, Vittorini, Lampedusa, and Calvino. Films will include work of Rossellini, de Sica, Fellini, Visconti, Antonioni, and others. *Four credit hours.* MR. BRANCACCIO

**297 Free-lance Writing** This course is designed to teach skills required to write essays, short stories, and nonfiction articles for magazines and newspapers. Publications studied include *The Atlantic Monthly*, *Harpers*, *The Nation*, *Yankee Magazine*, *The Saturday Evening Post*, *The Boston Globe Sunday Magazine*. Enrollment limited to eight students. *Three credit hours.* MR. SNYDER

**312 Literary Criticism** A study of contemporary theories of interpreting literature, including New Criticism, structuralism and semiotics, psychoanalysis, marxism, reader response, and poststructuralism. How readers interpret literature, what values are assumed, and what operations are subconsciously applied to texts. The central literary text used is Conrad's *Heart of Darkness*. *Three credit hours.* MS. SADOFF

**317 Intermediate Poetry Workshop** Practice in the writing of poetry, with major emphasis on student manuscripts. *Prerequisite:* English 217 or 218 or permission of the instructor. *Three credit hours.* MR. HARRIS

**318d1 Intermediate Fiction Workshop** Practice in the writing of short stories, with major emphasis on student manuscripts. *Prerequisite:* English 217 or 218 or permission of the instructor. *Three credit hours.* MR. SADOFF

**331d2 The Middle Ages** The development of western European literature in the context of medieval intellectual and cultural history. Major English and continental

works from such genres as epic, romance, allegory, and lyric will be studied from a comparative point of view. *Three credit hours.* MS. MANNOCCHI

**332j Poetry of the Later Renaissance** An intensive study of such poets as Donne, Jonson, Herbert, and Marvell, with special emphasis on public versus private modes, genre, and social and historical contexts. *Two credit hours.* MR. BENBOW

†[333] **Topics in Renaissance Drama** A study of the genre in Renaissance drama, frequently coordinated with production of plays by the performing arts program. *Two or three credit hours.*

[334] **Restoration Literature** The prose, poetry, and drama of 1660-1700, with special emphasis on the works of John Dryden. *Three or four credit hours.*

**335d2 The Romantic Period I: The Major Poets** The poetry and criticism of Wordsworth, Coleridge, Byron, Shelley, and Keats, emphasizing the political, conceptual, and imaginative coherence of Romanticism. *Three credit hours.* MR. MIZNER

†[336] **The Romantic Period II: The Romantic Hero** Novels of different periods and literatures, in all of which the central characters reveal "romantic" ways of thinking, acting, and feeling: Goethe's *Sufferings of Young Werther*, Lermontov's *A Hero of Our Time*, Brontë's *Wuthering Heights*, Flaubert's *Madame Bovary*, Conrad's *Lord Jim*, Fitzgerald's *The Great Gatsby*, Hemingway's *The Sun Also Rises*, and Lawrence's *Lady Chatterley's Lover*. *Three credit hours.*

**337d2 Modern British Literature** The origins, nature, and achievements of the modern movement in England and Ireland. Major authors will include Hardy, Eliot, Yeats, Joyce, and Heaney. *Three credit hours.* MR. ARCHIBALD

**338 Contemporary American Fiction** Recent trends in the American novel: the status of the American Dream, modernism, social realism, the metaphysical novel, and meta-fiction. Novels to be studied will include those by Saul Bellow, E. L. Doctorow, John Barth, Toni Morrison, William Kennedy, Joan Chase, Walter Abish, and others. An overview of the literary concerns of the age: its psychology, the status of the social institutions, attitudes toward sexuality and gender, class, and race. *Three credit hours.* MS. KENNEY

**339 Modern British Fiction** Representative British novels of the twentieth century by such writers as Conrad, Ford, Lawrence, Woolf, Forster, Waugh, Greene, and Lessing. *Three credit hours.* MR. KENNEY

†[351] **The American Renaissance I** The major works of Whitman, Hawthorne, and Melville. *Three credit hours.*

**352d1 The American Renaissance II** A close reading of the major works of Emerson, Thoreau, and Whitman, with particular emphasis on the transcendentalists' search for heightened consciousness and the connections between poetic and scientific truth. *Three credit hours.* MR. BRANCACCIO

[353] **The Realistic Imagination** Major works by Twain, Howells, James, and others in the context of both American and European traditions of the novel, and critical theories of the art and purpose of fiction. *Three credit hours.*

354d1 **The American Short Story** A history-analysis of the genre that many critics consider the most consistently successful in American literature—the short story. Distinguished writers of short narratives will be studied, from Washington Irving to Ann Beattie, with particular emphasis on such masters as Poe, Hawthorne, James, Hemingway, Salinger, and O'Connor. *Three credit hours.* MR. BASSETT

355d2 **Black American Literature** The major writing of black Americans, with emphasis on the fiction and poetry of the twentieth century. *Three credit hours.* MS. MCDOWELL

†[356] **Modern American Fiction** Major works of American fiction since 1920—by Faulkner, Hemingway, Fitzgerald, Dos Passos, Steinbeck, Mailer, Nabokov, Bellow, and others—will be analyzed, emphasizing the pattern of experience of the protagonist in conflict with the modern world. *Three credit hours.*

357 **Modern American Poetry** Works of major twentieth-century American poets, including Robert Frost, T. S. Eliot, Ezra Pound, William Carlos Williams, Wallace Stevens, Robert Lowell, and Sylvia Plath. *Three credit hours.* MS. HARRIS

†[358] **Contemporary American Poetry** American poetry since 1960: a study of influences (the rise of internationalism, the return to forms, historical and political consciousness), aesthetic documents, and representative volumes of poetry—the deep-image and surrealist schools, the New York School, the new formalists, the political and ethnic poets, including Ashbery, Rich, Strand, Wright, Glück, and others. *Three credit hours.*

[359] **Early American Authors** Selected prose and poetry from the Puritan period, the Age of Reason, and the preromantic movement in American literature. *Three credit hours.*

371d2 **The Age of Pope and Swift** Selected works by Defoe, Pope, Swift, Gay, Fielding, and other major writers of the first half of the eighteenth century. *Three or four credit hours.* MR. SWENEY

†[372] **From Johnson through Blake** Selected works by Johnson, Burke, Boswell, Sterne, Gray, Blake, and other major British writers of the second half of the eighteenth century. *Three or four credit hours.*

373 **The Development of Dramatic Art I** An examination of plays in the Western world from Greece through the early Renaissance together with a study of how they were produced. *Three or four credit hours.* MR. KOONCE

†[374] **The Development of Dramatic Art II** A sequel to English 373 from the neoclassic through the modern periods. *Three or four credit hours.*

[375] **Studies in Pre-Modern Drama** Topics in this course will vary. Such topics as Roman comedy, Elizabethan revenge tragedy, Renaissance comedy of manners, and romantic drama, as well as other genres and/or individuals, will be studied in the context of production problems as well as literary content. *Three or four credit hours.*

376 **Studies in Modern Drama** Topics in this course will vary. Such topics as the theater of the absurd, the people's theater, and works of other groups and/or individual writers will be studied in the context of production problems as well as literary content. For 1986-87, the topic will be new plays written or produced within the last eighteen months, both in North America and elsewhere. *Four credit hours.* MR. BINNIE

377 **Victorian Literature I** A study of the major novels of nineteenth-century England, exploring such themes as: the relations between the sexes; the Victorian family; gender, sexuality, and the unconscious; politics, culture, and society in relation to the self. Attention to fictional and narrative strategies, relation of narrators to authors and readers, forms of literary production, the nature of character. Novels by Austen, Brontë, Dickens, Thackeray, Eliot, and Hardy. *Three credit hours.* MS. SADOFF

†[378] **Victorian Literature II** Victorian drama (mainly Wilde and Shaw), non-fiction prose (autobiography and social and literary criticism), and poetry (Tennyson, Browning, Arnold). *Three or four credit hours.*

[379] **Blake** Close reading of a wide selection of Blake's illuminated poems. Facsimiles and slides will be used in order to emphasize visual aspects of Blake's work. Most of the works to be studied were produced before 1800, and the course may be so classified. *Three or four credit hours.*

383, 384 **Studies in Shakespeare** Selected plays, with special attention to the intellectual background and to Shakespeare's development as a dramatist. *Prerequisite:* English 221 or permission of the instructor. *Three credit hours.* MR. BENBOW

391 **The Age of Chaucer** A brief survey of the popular literature of the late fourteenth century (lyrics, ballads, cycle plays, romances) as background for a study of Chaucer's major works—selected *Canterbury Tales*, the *Book of the Duchess*, the *Parliament of Fowls*, and *Troilus and Criseyde*. *Three credit hours.* MR. MACKAY

[392] **Sidney and Spenser** The major works of these two Elizabethan authors, including Sidney's *Astrophel and Stella*, *An Apology for Poetry*, and selections from *The Arcadia*, and Spenser's *Shepherd's Calendar* and selections from *The Faerie Queene*. Readings will also be drawn from the poetry of Petrarca, Ariosto, Wyatt, and Surrey in an attempt to suggest the Renaissance background of Sidney and Spenser. *Three credit hours.*

[394] **Milton** The poetry and major prose of John Milton. *Three credit hours.*

398A **American War Fiction** Perspectives on war in American fiction from the Civil War to Vietnam. One of our important concerns will be why our writers, even those ostensibly writing anti-war novels, have tended to fall under the spell of what William R. Hochman calls "The Enduring Fascination of War." *Three credit hours.* MR. SWENEY

**398B Spenser** The poetry of Spenser, with particular attention to *The Faerie Queene* and the problem of Renaissance epic. *Three credit hours.* MR. MACKAY

**398C Modern and Contemporary Irish Fiction** Beginning with the fiction of James Joyce, Samuel Beckett, and Flann O'Brien, a study of the unique body of literature which has been brought forth by the social and historical paradoxes of Ireland; focus on the work of contemporary Irish novelists such as John McGahern, Emma Cooke, Benedict Kiely, Mary Rose Callaghan, and Philip Davison. *Three credit hours.* MR. LEONARD

**411 Teaching Writing and Reading** Theory and practice in teaching writing, close reading, and grammar, and in methods of class discussion and testing. Open to students whether or not pursuing the education program. May not be counted toward the major in English. Nongraded. *Three credit hours.* MRS. SANBORN

**417d2 Advanced Poetry Workshop** Practice in the writing of poetry, with major emphasis on student manuscripts. May be repeated once for additional credit. *Prerequisite:* English 317 or 318 or permission of the instructor. *Four credit hours.* MR. SADOFF

**418 Advanced Fiction Workshop** Practice in the writing of short stories and longer fiction, with major emphasis on student manuscripts. May be repeated once for additional credit. *Prerequisite:* English 317 or 318 or permission of the instructor. *Four credit hours.* MR. SADOFF

†[432] **History of the English Language** A brief study of the mechanism of speech—primarily to explain the connections between western European Romance and Germanic languages—followed by an examination of the major historical, social, literary, and linguistic reasons for changes in the sound, grammar, spelling, inflection, syntax, and vocabulary of the language from the Anglo-Saxon period to modern American English. *Three or four credit hours.*

[436] **African Prose** Fiction and autobiography dealing with such themes as African traditional culture and the coming of colonialism, the struggle for independence and the problems of development, and the reactions of Africans to the United States. Readings will be restricted to the works of authors writing in English, such as Chinua Achebe, Ezekiel Mphahlele, Peter Abrahams, James Ngugi, Stamlake Samkange, and Bessie Head. *Three credit hours.*

[437] **The Literature of Existentialism** Though emphasizing the novels and plays of Sartre and Camus, this course also includes works by Dostoevsky, Tolstoy, Melville, Conrad, Beckett, Ionesco, Pinter, Abé, and Percy. Students enrolled for four credits will do fewer written assignments if they produce one of the plays studied. *Three or four credit hours.*

[472] **Oral Interpretation** Principles of selection, analysis, and preparation of poetry, prose, and drama for oral presentation before an audience. *Three credit hours.*

**491, 492 Independent Study** Individual projects exploring topics for which the student has demonstrated the interest and competence necessary for independent

work. *Prerequisite:* Consent of a project adviser and permission of the chairman. *One to four credit hours.* FACULTY

**493, 494j, 494 Seminars in British and American Literature** Topics for 1986-87 include Confessions, Literature of the Black Woman Writer, Women's Poetry, and Art and Oppression. Descriptions will be published before registration. *Three or four credit hours.* FACULTY

## Field Experience, Internship

**-95, -95j, -96 Field Experience or Internship** Noncurricular experience with direct, demonstrated relationship to the student's curricular program. Credits earned in field experience or internship may be applied toward requirements for a major only with explicit approval of the chairman of the major department or program. Nongraded, credit or no entry, unless otherwise approved. *Prerequisite:* A formal proposal filed with the field experience coordinator prior to beginning of the project. *One to six credit hours (zero to three credit hours in January).*

## French

*In the department of modern foreign languages. Unless otherwise specified, all courses numbered above 127 are conducted in French. French 142 or permission of the instructor is required for all courses numbered 200 or higher. Courses numbered 500 and above are given in the Colby in Caen program.*

*Professors Jean Bundy, Guy Filosof, and Jonathan Weiss<sup>1</sup>; Associate Professors Charles Ferguson, Arthur Greenspan, and Jane Moss; Assistant Professor Suellen Diaconoff; Instructors Benoît Melançon<sup>2</sup> and Elizabeth Bowen<sup>3</sup>; Lecturer Dace Weiss<sup>4</sup>*

*Achievement Test:* If a student offers a foreign language for entrance credit and wishes to continue it in college, that student must either have taken the College Board achievement test in the language or take the placement test during freshman orientation.

### Requirements for the Major in French

(1) For students who begin their study of French at Colby with French 141 or higher: French 221, 222, 231 (normally taken in the sophomore year), and at least five additional courses numbered above 222, not including 234.

(2) For students who begin their study of French at Colby with French 127: French 141, 142, 231 (normally taken in the sophomore year), and at least five additional courses numbered above 200, not including 234.

(3) Students who begin their study of French with French 125 and who wish to major in French should consult the chairman of the department of modern foreign languages before the end of the second semester of their freshman year.

All majors must complete at least two courses at the 300 or 400 level dealing with French literature before 1800 and two courses at the 300 or 400 level dealing with French literature after 1800. French 232, 235, 272, and 351, while counting toward the major, may not be substituted for the century courses in French literature.

The following statements also apply:

(1) The point scale for retention of the major is based on all French courses numbered above 127.



- (2) No major requirements may be taken pass/fail.  
 (3) No more than the equivalent of four semester courses of transfer credit may be counted toward the major.  
 (4) All majors in the department must take at least one course in the major approved by the major adviser each semester until graduation. For students returning from foreign study, these courses must be numbered 300 or higher.

### Requirements for the Concentration in Quantitative Analysis

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491; one course from Computer Science 126, 132, 231, Mathematics 115, 117, 119, 121, 123, Philosophy 152, 258.

French majors are encouraged to apply for admission to the Colby Junior Year Abroad program in Caen and to be aware of the French component of interdisciplinary programs in performing arts and women's studies.

*Teacher Certification:* Students desiring certification for teaching French should consult the department of modern foreign languages and the education department.

<sup>1</sup>On leave first semester.

<sup>2</sup>Resident director, Colby in Caen, full year.

<sup>3</sup>Resident director, Colby in Dijon, first semester.

<sup>4</sup>Part-time.

†[115j] **Practical Phonetics** Phonetic analysis and transcription, using the international phonetic alphabet as applicable to French. *Two credit hours.*

**124d1 Intermediate French** An intermediate course emphasizing reading for direct comprehension, aural and oral skills, grammar, and vocabulary building. Materials used include literary works by Sartre and Camus, as well as full-length feature films. *Prerequisite:* French 123 or an appropriate score on the College Board French achievement test. *Three credit hours.* FACULTY

**125d, 126d Elementary French** Introduction to the language with emphasis on audio-lingual skills. Presentation of dialogue materials supplemented with visual aids. Use of taped materials in the language laboratory is a regular part of class work. *Four credit hours.* FACULTY

**127d Intermediate French** An intermediate course emphasizing reading for direct comprehension, aural and oral skills, grammar, and vocabulary building. Materials used include literary works by Sartre and Camus, as well as full-length feature films. *Prerequisite:* French 126 or an appropriate score on the College Board French achievement test. *Four credit hours.* FACULTY

**131d, 131j Conversation and Composition** Practice in writing compositions in French, with additional work in developing oral skills, building vocabulary, and idioms. *Prerequisite:* A score of 60 on the College Board French achievement test or French 127. *Three credit hours.* FACULTY

**141, 142 Introduction to French Literature** Introduction to the critical reading of French literature using selected prose, poetry, and theater. Emphasis on reading, discussion, and composition. *Prerequisite:* French 127 or appropriate College Board score. *Four credit hours.* FACULTY

**221, 222 Major French Authors** The evolution of French literature and thought from the sixteenth century to the present. Included among the authors read are: Montaigne, Pascal, Racine, Voltaire, Diderot, Rousseau, Stendhal, Camus, and Sartre. Non-French majors may choose to write papers and examinations in English. *Prerequisite*: French 142 or permission of the instructor. *Four credit hours*. MR. GREENSPAN AND MR. BUNDY

**231 Grammar and Composition** An advanced language course intended for majors and others wishing to do further work in French. Required of students who seek admission to Colby in Caen. Intensive grammar review and frequent practice in writing French. *Prerequisite*: French 131, 141, or 142. *Three credit hours*. INSTRUCTOR

**232 Introduction to French Culture** A course designed for students who have been accepted into the Colby in Caen program but open to other students as well. Major aspects of contemporary French life and culture, with continuing practice in improving oral and written language skills. *Prerequisite*: French 231 or permission of the instructor. *Three credit hours*. MR. WEISS

**234 Intensive Spoken French** Weekly practice in oral French, designed for participants in the Colby in Caen program. Drill sessions and conversation groups will be conducted by French exchange students and returning seniors under the direction of a faculty member. Nongraded. *Prerequisite*: Acceptance into the Colby in Caen program and concurrent enrollment in French 232. *One credit hour*. INSTRUCTOR

**\*235d2 Québec in Transition** The evolution of French Canada based on both literary and nonliterary texts, tracing the transition of French Canadian society from its rural beginnings to the modern, cosmopolitan province of Québec. Focus on events from World War II to the present, and topics include nationalism, migration to New England, the language question, terrorism, and the Parti Québécois. Offered alternately in English and in French. *Three or four credit hours*. MR. WEISS

**†[272] French Film in English** A historical overview of French cinema as technology, as industry, and as art; an introduction to the techniques of filmmaking; and the close analysis of selected works representative of the principal schools of film and filmmaking. All films have English subtitles. Qualified students may earn an extra credit by writing papers and examinations in French, and by attending an additional meeting per week conducted in French. Does not satisfy the College language requirement. *Three or four credit hours*.

**[335] Seventeenth-Century French Theater** The classical theater: Corneille, Racine, and Molière. Non-French majors may choose to write papers and examinations in English. *Prerequisite*: A 200-level French course. *Three or four credit hours*.

**336 Eighteenth-Century French Literature** The literary climate of the Enlightenment: theater of Marivaux and Beaumarchais; novels of Montesquieu, Voltaire, and Diderot. Non-French majors may choose to write papers and examinations in English. *Three or four credit hours*. MR. FERGUSON

**[338] French Classical Comedy** A study of classical French comedy as seen in the works of Molière, Marivaux, and Beaumarchais. Non-French majors may choose to write papers and examinations in English. *Three or four credit hours*.

**\*351 French Canadian Literature** Analysis of important literary works from Québec and Acadia, focusing on problems of cultural identity, language, and the French-English conflict as seen in contemporary fiction. Non-French majors may choose to write papers and examinations in English. *Three or four credit hours.* MS. MOSS

[353] **Francophone Women Authors** The female literary tradition through detailed analysis of major French and French Canadian women writers. Topics will include the role of women in society, the autobiographical element in women's novels, feminism, and the gender specificity of *l'écriture féminine*. Non-French majors may choose to write papers and examinations in English. *Three or four credit hours.*

**357 Nineteenth-Century French Poetry** Baudelaire and the symbolist poets: Mallarmé, Verlaine, and Rimbaud. Non-French majors may choose to write papers and examinations in English. *Three or four credit hours.* MR. BUNDY

†[358] **Nineteenth-Century French Literature** A study of realism and naturalism through representative works by such writers as Flaubert, Maupassant, and Zola. Non-French majors may choose to write papers and examinations in English. *Three or four credit hours.*

†[375] **The French Novel of the Twentieth Century** A close reading of selected novels from twentieth-century writers such as Vian, Robbe-Grillet, Wiesel, Lagorce, and Rezvani. Non-French majors may choose to write papers and examinations in English. *Three or four credit hours.*

†[376] **Modern French Drama** The theater of the absurd, political theater, recent trends in France, and some current French Canadian theater. Dramatic texts will be studied along with production techniques. Non-French majors may choose to write papers and examinations in English. *Three or four credit hours.*

**378 The Personal Essay in French** A study of the ways in which men and women have written about themselves, their relationship to others, and their relationship to society. The course will span centuries and continents, including the personal writings of such French authors as Montaigne, Gide, Camus, and Simone Weil, and such Québec authors as Arthur Buies, Pierre Vadeboncoeur, Suzanne Lamy, and Madeleine Gagnon. Non-French majors may choose to write papers and examinations in English. *Three or four credit hours.* MR. WEISS

[412] **Advanced Composition** An advanced practical course designed to develop and apply—through *thèmes* and *versions*—the grammatical, linguistic, and syntactic skills essential to proper written and oral expression. Enrollment limited. *Prerequisite:* French 231 or permission of the instructor. *Three credit hours.*

**491, 492 Independent Study** Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *Two to four credit hours.* FACULTY

**493, 494 Seminar in French Literature** Topics may cover an author, a genre, or a literary movement. (Fall 1986: Classical French Theater; Spring 1987: Experiments

in the Novel.) *Prerequisite:* Permission of the instructor. *Three credit hours.* MR. FILOSOF AND MR. GREENSPAN

**531, 532 Twentieth-Century Literature** Selected works by major twentieth-century French authors, including Anouilh, Queneau, St.-Exupéry, and Sartre. Offered in Caen. *Three credit hours.* FACULTY

**541, 542 Poetics** Analysis of the structure and styles of poetry; second semester is dedicated mainly to twentieth-century poets. Offered in Caen. *Three credit hours.* FACULTY

**543, 544 Stylistics** Intensive study of advanced French grammar and vocabulary; analysis of various styles of writing, using articles and passages from French literature. *Explications de texte.* Offered in Caen. *Three credit hours.* FACULTY

**545, 546 Romanticism and Realism** Study of trends in nineteenth-century French literature, through selected works by Rousseau, Balzac, Chateaubriand, and Stendhal. Offered in Caen. *Three credit hours.* FACULTY

## Freshman Seminar Program

*DIRECTOR: Professor Peter Harris (English)*

A new program of interdisciplinary seminars for freshmen has been developed. In 1986-87 the Freshman Seminar Program is offered as an option to members of the Class of 1990. Each seminar approaches a fundamental topic from the perspective of a number of disciplines, and is structured to bring together ideas from different historical periods and very different points of view.

**111 Art and Music: Concepts, Perceptions, Responses** An examination of art and music in a variety of contexts, focusing on writing about general concepts and specific works. The purpose of the seminar is to help bring reactions to works of art and music to the surface and to articulate responses to those works. A study of pairs of contemporaneous figures who shared similar critical stances; the critical points of view range from the polemical (Charles Ives and Frank Lloyd Wright) or political (Pablo Picasso and Krystof Penderecki) to popular (Janis Joplin, Stevie Wonder, and Michael Graves) or minimalist (Jennifer Bartlett and Steve Reich); and a study of how art and music may occasionally be used in other media to advance a particular message (comic: the Marx Brothers' "A Night at the Opera," serious: James Baldwin's "Sonny's Blues," or fantastic: Poe's "Fall of the House of Usher." Other artists and composers include Bach, Chagall, Debussy, Delacroix, Marvin Gaye, Gershwin, Goya, Kandinsky, Manet, Mozart, Stravinsky, and Fats Waller. Enrollment limited. *Four credit hours.* MR. SIMON AND MR. MACHLIN

**112 In Search of a Soul** The human quest for meaning and dignity has been a persistent theme of the literary and philosophical traditions of many cultures. This multi-sectioned seminar will explore a variety of external as well as internal landscapes to track that quest. What can introspection and reflection tell us about our lives and about all life? What struggles must humans undergo to clarify values and to find meaning in their lives? With an emphasis on autobiographies and literature

that explore the human spirit through the exploration of self, students are encouraged to contemplate in their own lives the challenges of introspection posed by these readings. Readings include: *Job*, *Plato's Apology*, *Jung's Memories, Dreams, and Reflections*, *Eric Fromme's Escape from Freedom*, *Malcolm X's Autobiography*, *Elie Wiesel's Night*, *Anne Frank's Diary*, and *Margaret Laurence's The Diviners*. *Four credit hours.* MR. BASSETT, MS. HARRIS, MR. KENNEY, MR. REUMAN, AND MS. ONION

**114 Turning Points in Human Understanding** A multi-sectioned seminar that contrasts two competing paradigms or explanations of contemporary life. The more traditional, with roots in Adam Smith, Darwin, Marx, and Freud, assumes that the world is divided and conflictual, that human nature reflects that division, and that conflict only gets resolved in zero-sum ways. A newer, emergent paradigm stresses the fundamental unity of the world and the interconnection of its parts, seeing conflict as not merely danger but opportunity for positive-sum solutions and consequent progress. Readings include: *Kuhn's The Structure of Scientific Revolutions*, *Heilbroner's The Worldly Philosophers*, *Lovelock's Gaia*, and *Freud's Civilization and Its Discontents*. *Four credit hours.* MR. HAUSS, MR. LIBBY, MR. MIZNER, AND MS. SANBORN

**116 Response and Counter-response in the Western Tradition** "Great books" become great because they contain great ideas. Inevitably, as well, they stimulate great debates. This multi-sectioned seminar seeks to illuminate through the paradoxes of our experience what it means to be human. By examining the themes of the great books of Western literature and philosophy—faith, love, anger, deceit, fear, hope—students are invited to examine their own lives and to explore other lives to determine what endures and what is transitory in human nature, to form criteria for critical assessments of human behavior. Readings include: *Homer's Odyssey*, *Plato's The Last Days of Socrates*, *Shakespeare's Hamlet*, *Ellison's The Invisible Man*, *Sophocles' Antigone*, and *Dante's Inferno*. *Four credit hours.* MR. ANEMONE, MR. BRANCACCIO, MR. COHEN, MR. HARRIS, AND MR. WEISS

## Geology

*Chairman*, PROFESSOR DONALD ALLEN

*Professors Allen and Harold Pestana; Assistant Professors Robert Nelson<sup>1</sup> and William Doll; Visiting Instructor Keith Brugger*

If one is interested in our planet—how it developed its present characteristics and what may happen to it in the future, where we came from and what supports us on the planet, our resources and their use—geology is a central area of study. The geology department features an unusually fine rock and mineral collection for study, an excellent small-college library, various geophysical instruments, and access to the College's new transmission and scanning electron microscopes. The setting of the College also provides an intriguing area for field study. Students are encouraged to work on independent projects and to develop ways of actively examining and interpreting observational data.

The department offers four major programs for students with different interests. For each option, at least one independent January program is required to be taken in the major during the junior or senior year. The point scale for retention of the major applies to all courses taken in the major. No requirement may be taken pass/fail.

### Requirements for the Basic Major in Geology

Geology 141, 142, 215, 232, 251, 271, 331, 351, 381, 382, 452; at least three hours of 491 or 492; Mathematics 121, 122; Chemistry 141, 142; Physics 121, 122 or 141, 142.

### Requirements for the Major in Geology-Biology

In geology: 141, 142, 215, 271, 311; six additional credit hours numbered 200 or higher.

In biology: 121, 122, 271, 272, and 8 additional credit hours.

Other courses: Chemistry 141, 142; Mathematics 121 and one additional mathematics course numbered above 121. Physics 121, 122 or 141, 142 is recommended.

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

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

### Requirements for the Major in Geology-Chemistry

In geology: 141, 142, 215, and two courses from 352, 381, or 382.

In chemistry: 141, 142, 331, 341. Chemistry 241, 242, and 332 are also recommended.

A Graduate Record Examination in geology or chemistry must be taken in the senior year.

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 Geophysics

In geology: 141, 142, 215, 232, 271, 331, 333 or 336, 311 or 452.

In physics: 141, 142, 152, 211, 321.

In mathematics: 121, 122, 253 and 222; or 123, 124 and 253.

Recommended courses include Geology 381 and 382, Physics 322, Chemistry 141 and 142, and Mathematics 311, 312, 332, and 352.

The **Earth Science Option** is offered for students planning to teach in the secondary schools; the requirements are: Geology 141, 142, 215, 251, 292, 311 (or 312), 351, 381; Chemistry 141.

The **Environmental Science Option** is designed to provide students with a core of geology courses supplemented by related courses from other departments. The requirements are: Geology 141, 142, 215, 311, 494; Biology 121, 122, 271; Chemistry 141, 142, 217 (or any of the following: 241, 242, 331, 332); Mathematics 121, 241 or 381; Physics 112 or 121 or 141; Economics 133, 134, 231; Sociology 232. Other related courses include: Biology 311, 314, 316, 318, 332, 352, 354, 356, 358; Geology 172 (or 176), 232, 333, 351, 354; Mathematics 122, 242, 382; Physics 122 or 142; Economics 293, 294, 314.

### Requirements for the Concentration in Applied Mathematics

Computer Science 125; Mathematics 231, or 241 and 242, or 381 and 382; Quantitative Analysis 491; one course from Geology 333, 336, Mathematics 272.

The **Bermuda Semester**. Majors may earn 12 credit hours in field study of coral reefs and carbonate environments. Geology 176, 312, and 314 are occasionally offered by Colby faculty using the facilities of the Bermuda Biological Station.

<sup>1</sup>On leave full year.

**141d, 142 Introduction to Geological Science** The physical Earth and its past. Emphasis in 141 is on earth materials and physical processes; 142 is devoted to

energy and resources, environmental geology, and the physical and biological evolution of the Earth. Enrollment limited to five laboratory sessions of 25 students each. Lecture and laboratory; laboratory sessions will include mandatory field trips. *Four credit hours.* INSTRUCTOR

†[161j] **Paleontology for Non-majors** An introduction to the principles of paleontology. Laboratory work concentrates on environmental interpretation through the use of fossils. Enrollment limited. *Prerequisite:* Permission of the instructor. *Three credit hours.*

**172 Oceanography** 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 dynamic features; the nature of ocean life. The value of the oceans for food and physical resources will be discussed. Lecture. *Three credit hours.* MR. PESTANA

†[176] **Oceanography** Similar to Geology 172 but taught at the Bermuda Biological Station. Students cannot receive credit for Geology 172 and 176. Lecture. *Three credit hours.*

**215 Mineralogy** Physical properties and chemical structure of minerals leading to investigation of the chemical composition and optical properties of minerals. Lecture and laboratory. *Prerequisite:* Geology 141, Chemistry 141 (may be taken concurrently), or permission of the instructor. *Four credit hours.* MR. ALLEN

**232 Structural Geology** Processes and results of deformation of rocks, including microfabrics, primary structures, faults, and folds. *Prerequisite:* Geology 142. *Four credit hours.* MR. DOLL

**251 Invertebrate Paleontology** Morphology of invertebrates and general principles, including nomenclature, taxonomy, paleoecology, evolution, correlation, and techniques of identification. Lecture and laboratory. *Prerequisite:* Geology 142 or one year of biology. *Four credit hours.* MR. PESTANA

†[252] **Micropaleontology** A laboratory course covering one or more of the major microfossil groups. Emphasis will be on identification, age determination, and environmental interpretation. *Prerequisite:* Geology 251 or permission of the instructor. *One to four credit hours.*

†[254] **Advanced Invertebrate Paleontology** A laboratory course involving a detailed investigation of one or more invertebrate groups. Emphasis will be on identification, age determination, and environmental interpretation. *Prerequisite:* Geology 251 or permission of the instructor. *One to four credit hours.*

**258j, 258 Field Geology** A course of studies to be conducted off campus in a region whose climate permits field study of geologic features. Emphasis will be placed on development of fundamental concepts, analysis of field data, field identification of lithotypes, basic mapping techniques, and recognition of geomorphic features and their genetic significance. Grades will be based on field notes, reports, and maps submitted following independent projects, which will be conducted

periodically over the duration of the course. *Prerequisite:* Geology 141 and permission of the instructor. *Two or three credit hours.* FACULTY

**271 Computer Applications and Mathematical Methods in the Earth Sciences** An introduction to computer applications and mathematical methods in the earth sciences, to provide appropriate tools for more quantitative approaches to geological problems in advanced courses. *Prerequisite:* Geology 141, 142, and permission of the instructor. *Three credit hours.* MR. DOLL

[292j] **Meteorology** Physical properties of the atmosphere, the origin and classification of weather types, air mass analysis and principles of prediction, and meteorology of air quality. Does not satisfy the science requirement. Lecture. *Two credit hours.*

**311 Sedimentation** Processes of sedimentation, methods of analysis of sediments, the description and interpretation of environments of deposition, and the classification and description of sedimentary rocks. Lecture and laboratory. *Prerequisite:* Geology 142 and 215. *Four credit hours.* MR. PESTANA

†[312] **Sedimentation and Carbonate Sediments** Sedimentary processes, environments of deposition, and the classification and description of sedimentary rocks. Emphasis will be on carbonate sediments and the biological aspects of sedimentation. Taught at the Bermuda Biological Station. Students cannot receive credit for Geology 311 and 312. Lecture and laboratory. *Prerequisite:* Geology 142 and 215. *Four credit hours.*

†[314] **Field Study in Bermuda** Field and laboratory study of selected topics dealing with coral reefs, carbonate sediments, or other aspects of the Bermuda environment. *Corequisite:* Geology 176 and 312. *Five credit hours.*

**331 Tectonics** Large-scale features and physical processes of the crust, mantle, and core of the earth are discussed, and the constraints imposed by several areas of research are summarized. In this setting, the concepts of plate tectonics are explained and applied. *Prerequisite:* Geology 232 and Physics 122 or 142, or permission of the instructor. *Three credit hours.* MR. DOLL

†[333] **Geophysical Prospecting** Gravitational, magnetic, electromagnetic methods, and geologic mapping commonly used in mineral exploration, are studied and applied to local field areas. *Prerequisite:* Geology 232 and Physics 122 or 142, or permission of the instructor. *Four credit hours.*

†[336] **Seismology** Theory of collection and interpretation of seismic data. Both naturally occurring (earthquake) sources and artificial (exploration) sources will be considered. Body waves (P- and S-) and surface waves will be used in determining local and global structure. *Prerequisite:* Geology 232, Mathematics 121 or 123, and Physics 121 or 141, or permission of the instructor. *Four credit hours.*

**351 Principles of Geomorphology** The origin, history, and classification of landforms and the processes that shape the earth's surface. Emphasis on study of physical processes. Lecture and laboratory. At least one all-day field trip required. *Prerequisite:* Geology 141 and 232. *Four credit hours.* INSTRUCTOR



†[352j] **Dating Techniques in Geology** The use of radioactive isotopes and their decay as a means of determining the ages of rocks and other geological deposits. Nonradiometric techniques will also be examined, with particular attention to their applicability and reliability. Lecture only. *Prerequisite:* Geology 142, Chemistry 141. *Two credit hours.*

†[354] **Glacial and Quaternary Geology** The origin and development of glaciers and their influence on the landscape, both as erosive forces and as transporters of new earth materials. Geological and biological evolution of the landscape during the Quaternary, the most recent of the geological periods. Lecture and laboratory and several field trips (including two all-day Saturday trips). *Prerequisite:* Geology 142. *Four credit hours.*

[358] **Geological Field Study** A spring-recess field trip to a selected area. Students must cover expenses. *Prerequisite:* Permission of the instructor. *One credit hour.*

†[372] **Quaternary Paleocology** Reconstruction of biological environments on land for the recent geologic past, based on the fossil remains of plants and animals preserved in sediments. Emphasis will be on the use of pollen in reconstructing past vegetation types, but other groups of organisms will be included. Extrapolation of past climatic parameters from the biological data. Lecture and laboratory. *Prerequisite:* Geology 142 and Chemistry 142. Geology 354 and Biology 311 are recommended. *Four credit hours.*

†[374] **Ore Deposits** An investigation of the genesis and localization of ore deposits. Topics may include the history of mineral deposits, materials, and formation of ore deposits, supergene sulfide enrichment, paragenesis and zoning, epigenetic versus syngenetic deposits, magmatic segregation deposits, and mineral deposits related to regional tectonic environments. *Prerequisite:* Geology 215 and Chemistry 141. *Three credit hours.*

**381, 382 Optical Mineralogy; Igneous and Metamorphic Petrology** First semester: determination of mineral composition and properties by means of petrographic microscope and emission spectrograph. Second semester: hand-specimen and thin-section examination of igneous and metamorphic rocks to determine structure, composition, and origin. Lecture and laboratory. *Prerequisite:* Geology 215. *Four credit hours.* MR. ALLEN

**452 Stratigraphy** 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. Lecture and laboratory. *Prerequisite:* Geology 251 and 311. *Four credit hours.* MR. PESTANA

**491, 492 Independent Study** Field and laboratory problems in geology or environmental problems, with regular reports and a final written report. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY

**494 Environmental Geology** Selected topics dealing with environmental quality. Extensive individual investigation. *Prerequisite:* Permission of the instructor. *Three or four credit hours.* MR. ALLEN

# German

*In the department of modern foreign languages. Unless otherwise specified, all courses are conducted in German. German 151 or permission of the instructor is required for all higher-numbered German courses.*

*Associate Professors Hubert Kueter, James McIntyre<sup>1</sup>, and Peter Nutting; Assistant Professor Margrit Lichterfeld<sup>2</sup>*

*Achievement Test:* If a student offers a foreign language for entrance credit and wishes to continue it in college, that student must either have taken the College Board achievement test in the language or take the placement test during freshman orientation.

## Requirements for the Major in German

Eight semester courses numbered above German 127.

The following statements also apply:

- (1) The point scale for retention of the major is based on all German courses beyond the intermediate level.
- (2) No major requirements may be taken pass/fail.
- (3) No more than the equivalent of four semester courses of foreign study or transfer credit may be counted toward the major.
- (4) All majors in the department must take at least one course in the major approved by the major adviser each semester until graduation. For students returning from foreign study, these courses must be numbered 300 or higher.

## Requirements for the Concentration in Quantitative Analysis

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491; one course from Computer Science 126, 132, 231, Mathematics 115, 117, 119, 121, 123, Philosophy 152, 258.

*Teacher Certification:* Students desiring certification for teaching German should consult the department of modern foreign languages and the education department.

<sup>1</sup>On leave full year.

<sup>2</sup>Resident director, Colby in Lübeck, second semester.

**124d1 Intermediate German** 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 123 or appropriate score on the College Board German achievement test. *Four credit hours.* FACULTY

**125d, 126d Elementary German** Introduction to the language by an audio-lingual method, with emphasis on understanding, speaking, and reading. Use of taped materials in the language laboratory is a regular part of the class work. *Four credit hours.* FACULTY

**126, 127, 131, 132 Colby in Lübeck** Intensive use of language skills in Lübeck, Federal Republic of Germany. *Prerequisite:* German 125 or appropriate score on the College Board achievement test. *Sixteen credit hours.* MS. LICHTERFELD

**127d Intermediate German** Continued practice in speaking and listening skills; grammar review; drill in language laboratory; readings and conversation based

on topics from German culture; emphasis on the practical use of the language. *Prerequisite:* German 126 or appropriate score on the College Board German achievement test. *Four credit hours.* FACULTY

**131j Introduction to German History and Culture** Taught only in conjunction with study abroad programs in Lübeck and Konstanz. Readings and discussions in German. Field trips to museums and architectural monuments. *Prerequisite:* German 127 or permission of the instructor. *Three credit hours.* MS. LICHTERFELD

**132 Conversation and Composition** Further development of language skills, with emphasis on oral expression and written facility. *Prerequisite:* German 127 or permission of the instructor. *Four credit hours.* FACULTY

**151 Introduction to German Literature** Readings in drama, short prose, and poetry, mainly from the twentieth century. Designed to develop skills in literary analysis and close reading of texts and to introduce the writings of major authors. Continuing practice in conversation and composition. Formerly listed as German 141, 142. *Prerequisite:* German 132 or equivalent. *Four credit hours.* MR. NUTTING

[232] **Advanced German** A review of German grammar at the advanced level, with directed themes and free compositions. *Prerequisite:* German 132 or 151. *Three credit hours.*

**333 German Women Writers** A survey of German women writers and their works from Sophie von LaRoche to contemporary Austrian, West German, and East German writers. Both literary texts and some feminist documents will be read. Contemporary feminist theory will be discussed. *Four credit hours.* MS. LICHTERFELD

**334 Contemporary German Culture** Focus on the historical evolution of culture and society in the Federal Republic. Topics will include the educational system and youth, environmental problems, media, the role of women, political parties, and East-West relations. *Four credit hours.* MR. NUTTING

[335, 336] **The GDR: 1949 to the Present** Representative literary texts in the context of their historical perspective will be used to introduce and analyze the phenomenon of *Kulturpolitik*. *Prerequisite:* Successful completion of a German course numbered above 132. *Four credit hours.*

**351 The Medieval Epic** An introduction to the history, culture, literature, and language of medieval Germany; study of the three major epics of the period: the *Nibelungenlied*, *Parzival*, *Tristan und Isolde*; reading of New High German translations with sample readings of Middle High German texts. *Four credit hours.* MR. KUETER

[353] **Topics in Eighteenth-Century German Literature** Literature of the classical period: Lessing, Goethe, and Schiller. *Four credit hours.*

[355] **Topics in Nineteenth-Century German Literature** *Four credit hours.*

[358] **Topics in Twentieth-Century German Literature** German literature after 1890. *Four credit hours.*

**491, 492 Independent Study** Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *Two to four credit hours.* FACULTY

**494 Seminar in German Literature** Topics, which change each year, may cover an author, a genre, or a literary movement. (Spring 1987: Modern Austrian Literature.) *Four credit hours.* MR. NUTTING

## Government

*Chairman,* PROFESSOR L. SANDY MAISEL

*Professors Albert Mavrinac, Guenter Weissberg<sup>1</sup>, William Cotter<sup>2</sup>, Maisel, and G. Calvin Mackenzie<sup>3</sup>; Visiting Professor Morton Brody<sup>3</sup>; Associate Professors Charles Hauss and Roger Bowen; Visiting Associate Professor Cyril Daddieh; Assistant Professor Pamela Blake; Instructors Beverly Hawk and Anthony Corrado*

The department of government offers a wide range of courses in American government and politics, comparative government and politics, transnational politics, political theory, and research methods and quantitative analysis. The departmental goals include exposing students to a variety of forms of governments and of inter-governmental activities and to the means for studying these governments and their actions.

Internships are encouraged, so that students can experience the practical as well as the more theoretical aspects of the field. The interdisciplinary program in public policy also furthers this goal. In addition, for those students who intend to pursue the study of government in more depth, the department offers an honors program which emphasizes substantial independent research under the close guidance of one or two members of the faculty. Successful completion of this program will result in the degree being awarded "With Honors in Government."

### Requirements for the Major in Government

Nine semester courses in government, including Government 111 and 112, one course at the 200 or 300 level in each of the four sub-fields defined below, and a senior seminar.

Government 111 and 112 are designed as introductions to the discipline. The sub-field requirement provides for a broad background within the field. The senior seminars, which cross the sub-fields and are often taught in conjunction with other disciplines, are designed to be culminating experiences within the field; each seminar will require a major research paper to coordinate the materials studied in the major.

All requirements for the major must be taken at Colby. Courses transferred from other institutions and/or field experience courses can count (up to a maximum of two) in the nine-course requirement, but they may not be substituted for the introductory, distribution, or seminar requirements. Students taking government courses abroad **must** secure provisional approval for each course **prior** to leaving; upon return to Colby, brief descriptions of work completed must be submitted to the department for final approval.

Sub-fields for the departmental distribution requirements are defined as follows:  
*Political Theory and Analysis:* Government 213, 218, 219, 312, 316, 394.

*American Government and Politics:* Government 273, 275, 276, 313, 314, 317, 319, 352, 356, 392.

*Comparative Government and Politics:* Government 234, 237, 254, 271, 277, 318, 333, 353, 357, 358.

*Transnational Politics:* Government 215, 239, 332, 334, 336, 338.

**Requirements for the Concentration in Quantitative Analysis**

Computer Science 125; Government 219; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491.

Attention is called to the interdisciplinary program in public policy.

<sup>1</sup>On leave second semester.

<sup>2</sup>Part-time first semester only.

<sup>3</sup>Part-time second semester only.

[001j] **January in the Soviet Union** A trip to the Soviet Union focusing on political and social affairs. Enrollment limited. *Prerequisite:* Permission of the instructor. *Noncredit.*

**111 Introduction to American Government and Politics** An examination of the ideas and values that underlie the American political system, and of their contemporary manifestations in institutions, processes, and policies. Coordinated lectures presented by several members of the government faculty in their areas of specialization. Open to freshmen and, by departmental permission, to others majoring in government. *Four credit hours.* FACULTY

**112 Comparative Politics: An Introduction to Politics Outside the United States** An analysis, through case studies, of the major dimensions of domestic and transnational politics in Western democracies, Communist countries, and the Third and Fourth worlds. Coordinated lectures presented by several members of the government faculty in their areas of specialization; discussion sections headed by individual faculty members. Open to freshmen and, by departmental permission, to others majoring in government. *Four credit hours.* FACULTY

**114j The Constitution and Civil Rights: Blacks, Women, and Gays in Late Twentieth-Century America** A study of the ways in which the Supreme Court has interpreted the Constitution as it relates to controversial issues dealing with the rights of blacks, women, and gays in recent decades. *Three credit hours.* MR. MAVRINAC

[115j] **British Politics** A January program in Great Britain. Students will study and observe various aspects of British politics at the national level. *Three credit hours.*

†[116j] **Politics and Language** The relationship between politics and language. How is the process of naming reality an exercise in power? If language is a field of political relations, then what are the implications for movements seeking to bring about the realization of democracy? *Two credit hours.*

[117] **Workshop in Political Rhetoric** The nature of modern techniques of transmitting political information and of persuading both the general public and organizational and social decision makers, focusing on the student's skills in using those techniques. Preparation of briefing papers on current legislative items, television commentaries on current events, radio election-campaign commercials,

political humor, and summaries of current judicial treatment of significant public policy matters. *Three credit hours.*

[132] **Conflict Resolution** This course will begin by dealing with the theoretical aspects of conflict resolution in the domestic and international spheres. Subsequently, it will be turned into the United Nations Security Council as constituted at the present time. Each student will assume the role of an ambassador to the United Nations and represent his or her country's position in relation to a hypothetical case. Open to freshmen only. *Three credit hours.*

133j **African Life and Politics Through Literature** African literature is intertwined with African politics. The great issues of African life are expressed in the literature of its people. The course will explore the rich tradition of African literature as a celebration of culture and the political voice of the people. *Three credit hours.* MR. DADDIEH

213 **Classical Western Political Theory** Classical Western approaches to the nature of the political order, treating such theorists and their historical periods as Plato, Aristotle, Cicero, Augustine, Aquinas, Luther, Calvin, Machiavelli, Hobbes, Locke, and Montesquieu. *Four credit hours.* MS. BLAKE

215 **Transnational Relations in the Modern World** The basic actors, theories, and systematic elements of international politics and their relationship in the fluidity of the modern world. Emphasis is placed on the search for a structure of international security, and on such subjects as transnational power politics (including the role both of traditional states and of contemporary nonstate movements), comparative conceptions of diplomacy and war as instruments of goal achievement, and institutions of collective security. Intended both for students planning further study in transnational relations and for those who will not have other occasion in college to study the shape of the international system. *Three or four credit hours.* MR. WEISSBERG

218 **Modern Western Political Theory** Nineteenth- and twentieth-century Western thought on the political order, with particular attention to such theorists as Rousseau, Kant, Hegel, Marx, Bentham, Mill, and Dewey, and to select twentieth-century radical and conservative critics. *Four credit hours.* MS. BLAKE

219d **Introduction to Research Methods for Political Science** Introduction to simple techniques for quantifying concepts and relationships of interest to political scientists, and to the use of the computer. Intended for students with little or no exposure to the computer or to quantitative methods. Enrollment limited. *Prerequisite:* Government 111 and 112, or permission of the instructor. *Three or four credit hours.* MS. HAWK

†[234] **European Politics** An introduction to comparative political analysis and to the politics of Great Britain, France, Italy, and the Federal Republic of Germany. Enrollment preference given to majors in government. *Prerequisite:* Government 112 or permission of the instructor. *Four credit hours.*

\*237 **Political Development in Modern Japan** The political, cultural, historical, and economic dynamics of Japan's drive to modernize since the 1868 Meiji Restoration. Special attention will be given to the ongoing conflict between the proponents

of liberal democracy and those favoring an oligarchic, authoritarian governmental system. Throughout the study, students will seek to locate the roots of Japanese democracy and militarism. *Prerequisite:* Government 112 or permission of the instructor. *Four credit hours.* MR. BOWEN

**239d2 Nuclear Weapons and Nuclear War** An inquiry into the threat and consequences of nuclear war. The course will consider the way nuclear weapons work, the history of the nuclear arms race, the current tensions between the superpowers, and the possible solutions for the problems associated with "the bomb." Enrollment limited. *Three or four credit hours.* MR. HAUSS

**254d1 Comparative Communism** An examination of Marxist theory and the reality of the two main states calling themselves Marxist—the Soviet Union and the People's Republic of China. Also listed as History 254d1. *Three or four credit hours.* MR. HAUSS AND MR. FEIGON

**271d2 War and Revolution in Vietnam** The significance of the Vietnam War; the Vietnamese Revolution as it compares with other revolutions; and the impact of the war on American politics and public policy. Enrollment limited to 40 students; preference given to government and East Asian studies majors. *Prerequisite:* Government 112 or permission of the instructor. *Four credit hours.* MR. BOWEN

**\*273d2 The American Congress** The organization, powers, and actions of the legislative branch of the American government examined in historical and contemporary perspective. *Prerequisite:* Government 111 or permission of the instructor. *Three or four credit hours.* MR. CORRADO

**275j The Committee System in the United States Congress** An examination of the process through which Congressional committees make decisions in the modern Senate. During the first part of the course professional political science literature on committee performance will be read. The second part of the course will follow a specific piece of legislation through the appropriate committee in a concentrated simulation. *Prerequisite:* Government 111. *Three credit hours.* MR. CORRADO

†[276] **The American Presidency** The organization, powers, and actions of the executive branch of the American government examined in historical and contemporary perspective. Special emphasis on case analysis. Enrollment limited to 35. *Prerequisite:* Government 111 or permission of the instructor. *Four credit hours.*

**277 African Politics** Introduction of African politics through case studies of Kenya, Tanzania, South Africa, Angola, Ghana, and Nigeria. *Three or four credit hours.* MR. DADDIEH

**295j Internship** Month-long internships in offices such as those of attorneys, congressmen, senators, and state legislators. *Two or three credit hours.* FACULTY

**298 International Relations of African States** The options and constraints facing African leaders in international relations, with readings directed to world and regional affairs that affect the policies of African states and debate the actions of African states. The implications of the policies of African states for East-West relations and the international economic system. *Three or four credit hours.* MR. DADDIEH

**312 Directions in Feminist Theory** Women's economic, social, and cultural movement over the past fifteen years has challenged socioeconomic hierarchies and the knowledge(s) that sustains them. The scope and dimensions of feminist theories of sexual differences and sexual freedom. Formerly listed as Government 398. *Four credit hours.* MS. BLAKE

**313 American Constitutional Law I** An introduction to the United States Supreme Court, constitutional litigation, and the political process by way of an emphasis on the Court and its relationship to the structure of national government, federalism, and national economic development. *Four credit hours.* MR. MAVRINAC

**314 American Constitutional Law II** The United States Supreme Court and the modern era of civil rights litigation. *Four credit hours.* MR. MAVRINAC

†[316] **American Political Thought** Some of the principal expressions of political values and conceptions of political structure and process as they have appeared in the course of American history. *Prerequisite:* Government 213 or 218 or permission of the instructor. *Three or four credit hours.*

**317 The Policymaking Process** An examination of the policymaking process, including such topics as agenda setting, program formulation, consensus building, implementation, and the use and misuse of policy analysis. Special attention to methods and techniques of policy evaluation. Primary focus on policy making at the national level in the United States government. Enrollment limited to 35. *Prerequisite:* Government 111 or 112. *Three or four credit hours.* MR. CORRADO

†[318] **The Welfare State** The role of the modern state in providing social services and intervening to regulate a capitalist economy. A critical analysis focusing on Great Britain and Sweden. *Prerequisite:* Government 234 or 317. *Three or four credit hours.*

**319 Law and Social Change: Women and Minorities** An examination of the respective roles of the courts, the legislative, and the executive in declaring law and resolving disputes. The legal "case method" will be used to focus on the judicial process as it has dealt with problems of slavery and racial equality and discrimination against women in the United States, and, to a lesser extent, in England and South Africa. The Socratic method of teaching will be used, and regular class participation is required of all students. Enrollment may be limited. *Three credit hours.* MR. COTTER

[331] **Colloquium on Transnational Issues** Transnational issues with domestic implications, and domestic problems with a substantial transnational impact. Topics will include the Third United Nations Conference on the Law of the Sea (UNCLOS III) and the convention which was concluded, human rights, the New International Economic Order, the political and legal aspects of terrorism, and third-party settlement. A substantial paper is required. *Prerequisite:* Permission of the instructor. *Four credit hours.*

†[332] **Political Development in the Third World** Political change in selected "Third World" nations, including revolution and counterrevolution in Latin America, development in South Africa, the Israeli-Palestinian conflict, and the role and influ-



ence of the United States in such change. *Prerequisite:* Government 112 or permission of the instructor. *Four credit hours.*

[333] **Totalitarian Government and Politics** 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. *Prerequisite:* Government 112. *Three credit hours.*

**334 North/South Relations** The schism between north and south has ramifications for all of the issues we study in international relations. This course will provide a critical examination of the most important theoretical approaches to north/south relations. The course will contrast the economic and political positions of states with differing economies. In this way, students can begin to understand the factors which influence the relations between advanced industrial states and states with other economic histories. Formerly listed as Government 397. *Prerequisite:* Government 112 or permission of the instructor. *Four credit hours.* MS. HAWK

[336] **International Organization** The structure, politics, and current operation of international organizations within the nation-state system, with particular emphasis on the United Nations. *Prerequisite:* Government 215. *Three credit hours.*

**338d1 International Law** The body of rules and principles of behavior that govern states and other transnational actors in their relations with each other, as illustrated in cases and texts. *Prerequisite:* Government 215. *Four credit hours.* MR. WEISSBERG

**352 The Judicial Process** A seminar focusing on the roles played by the various actors in the legal community and on legal processes. Topics include the role of the prosecutor, the legal process, etc. Formerly listed as Government 452. Enrollment limited to 20. *Prerequisite:* Government 111 and permission of the chairman of the department. *Three credit hours.* MR. BRODY

†[353] **Comparative Political Parties** The variety of parties and party systems in the world today. Special emphasis will be given to the declining importance of parties. In years in which Government 356 is not offered, special attention will be given to the American party system. Enrollment limited to 25. *Prerequisite:* Government 112 or 234. *Three or four credit hours.*

†[356] **Parties and the Electoral Process** An analysis of partisan politics and elections in the United States, emphasizing the role of parties, and dealing with candidates, their staffs, the electorate, and the media. *Prerequisite:* Government 111. *Three or four credit hours.*

\***357 Democracy and Fascism** The relationship between democracy and fascism, involving case studies of the governments of Italy, Germany, and France, and the factors that facilitate change from one system to the other. Enrollment limited. *Prerequisite:* Government major or permission of the instructor. *Three or four credit hours.* MR. HAUSS

†[358] **Contemporary Japanese Politics** A survey of the political process in postwar Japan, with emphasis on some of the major institutions of political life. Japan

is considered as a political system comparable to those of other industrial democracies, in spite of marked differences in social and cultural values. *Prerequisite:* Government 112 or permission of the instructor. *Four credit hours.*

**[392] The Administrative Process** The people and agencies responsible for the implementation of public policy in the United States. Emphasis on the character of bureaucratic decision making, government organization and reorganization, public personnel systems, and administrative politics. Enrollment limited to 35. *Prerequisite:* Government 111. *Three credit hours.*

**394 Research Design** The great questions facing any research planner are questions of design. In this course students will learn the important skills of designing and writing a sophisticated research proposal. After discussions about "scientific thinking" and a review of good and faulty research designs, students will design their own proposals for a major research project. This course is a prerequisite for Honors in Government. *Prerequisite:* Junior standing as a government major and permission of the department. *Four credit hours.* MS. HAWK

**397 Conflict and Cooperation in Southern Africa** Economic interdependence constrains political independence in Southern Africa. Various aspects of complex relationships including Southern African dominance of transportation networks, the economic and political impact of migratory labor to South African mines, and actions by its neighbors to break free of these and other constraints. *Three or four credit hours.* MR. DADDIEH

**398 Political Economy of African Development** Current issues in African development including urbanization, dualism, population policy, dependency, and the role of the State. Readings address economic development and its relationship to colonial trade patterns, multinational corporations, and domestic politics. *Three or four credit hours.* MR. DADDIEH

**412 Seminar on Law and Society** The relationship of political ideology, empirical, political, and social change, and the evolution of legal doctrines both in the United States and in other societies. (In 1987: Historical and current views in American law on the appropriate standards for compensation for the "taking" of private property for public "use.") Enrollment limited to 15. *Prerequisite:* Permission of the instructor. *Four credit hours.* MR. MAVRINAC

**[413] Seminar in Comparative Politics** The state of industrialized society. The problems, prospects, and processes of foreign and domestic policymaking in the Soviet Union, the United States, and France. Enrollment limited to 15. *Prerequisite:* Permission of the instructor. *Four credit hours.*

**414 Contemporary Social Theory** Developments in contemporary interpretation and criticism. Particular attention to the problem of symbolic violence as it is addressed within the fields of critical theory, (post)structuralist criticism, psychoanalysis, and feminist theory. Formerly listed as Government 497. Enrollment limited to 15. *Prerequisite:* Permission of the instructor. *Four credit hours.* MS. BLAKE

**\*416d1 Western Intervention in the Non-Western World** Geopolitical, historical, ideological, and economic forces affecting Western involvement in the

political and economic affairs of Third World nation-states. Case studies will include post-World War II instances of intervention and their impact on subsequent efforts at indigenous political development. An attempt will be made to isolate systematically the causes and different forms of intervention before trying to develop a theory of this phenomenon. Enrollment limited to 15. *Prerequisite:* Permission of the instructor. *Four credit hours.* MR. BOWEN

[417] **Art and Politics** A seminar inquiring into art forms as media for the expression of political values. Among others, architecture, music, painting, and sculpture will be considered, but not literary forms. Enrollment limited to 15. *Prerequisite:* Permission of the instructor. *Four credit hours.*

**432 Seminar on Executive Leadership in the Federal Government** A research seminar examining such topics as executive selection, techniques of public management, personnel administration, policy formulation, and public liaison. Enrollment limited to 15. *Prerequisite:* Government 276 or 392 and permission of the instructor. *Four credit hours.* MR. MACKENZIE

[433] **American Government and the Press** The philosophical, ethical, historical, political, and legal relationships between the United States government and the press. Recent case studies, electronic as well as print media, politics, and policymaking. Enrollment limited to 15. *Prerequisite:* Government 111 and permission of the instructor. *Four credit hours.*

†[434] **Women in American Politics** The role of women in contemporary American politics; controversial issues which relate particularly to women, and the ways in which the government addresses those issues. How a social movement becomes a political movement; how social issues become part of the political agenda. Enrollment limited to 15. *Prerequisite:* Government 111 and permission of the instructor. *Four credit hours.*

**438 Seminar in Policy Advocacy** Intensive study of selected public policy issues and the techniques of policy advocacy; emphasis on oral presentations of policy positions. Enrollment limited to 15. *Prerequisite:* Government 317 and permission of the instructor. *Four credit hours.* MR. CORRADO

**455 Level of Analysis in Transnational Relations** The search for an understanding of world events can lead scholars to differing conclusions because interpretations of the world depend to a certain extent on the level of focus: global, nation/state, group, or individual. The course looks at the world through each of these lenses and offers an opportunity to understand better the world political scene and the frameworks through which scholars view it. Enrollment limited to 15. *Prerequisite:* Government 111 and 112 and permission of the instructor. *Four credit hours.* MS. HAWK

**457 Seminar on the Foreign Policy of the United States** The formulation, objectives, and execution of United States foreign policy, with particular emphasis on the post-World War II period. Conducted in the form of the United States Senate Committee on Foreign Relations as presently constituted. Enrollment limited to 15. *Prerequisite:* Government 215 or equivalent and permission of the instructor. *Four credit hours.* MR. WEISSBERG

[458] **Seminar on the United Nations** Conducted in the form of a political or judicial organ of the United Nations. Case studies will be presented and analyzed, each participant assuming the role of a representative of the nation-state that is involved in the dispute. *Prerequisite:* Permission of the instructor. *Four credit hours.*

†[473] **Seminar in African Politics** Focus on a selected issue relevant to contemporary Africa's problems and future. Enrollment limited to 15. *Prerequisite:* Permission of the instructor. *Four credit hours.*

†[477] **Seminar in East Asian Politics** A focus on the demise of Japanese democracy in the 1930s and the rise of Japanese fascism, studied comparatively with similar developments in Germany and Italy. The empirical basis of the course will be augmented by a study of democratic and fascist theories, most particularly the relationship between liberal democracy and fascist ideologies in a nationalistic context. Enrollment limited to 15. *Prerequisite:* Permission of the instructor. *Four credit hours.*

483, 484 **Honors Workshop** Individual and group meetings of seniors and faculty participating in government honors program. *Prerequisite:* Permission of the department. 483: Nongraded; *two credit hours.* 484: Graded; *four credit hours.* FACULTY

491, 492 **Independent Study** A study of government through individual projects. *Prerequisite:* Government major and permission of the department chairman and instructor. *One to four credit hours.* FACULTY

## Greek

*In the department of classics.*

111, 111j **Introductory Greek** Introduction to Homeric Greek. *Four credit hours.* MRS. KOONCE

112 **Intermediate Greek** Readings in Homer's *Iliad*. *Four credit hours.* MISS HIGBIE

131 **Introduction to Greek Literature** The *Odyssey* of Homer. Successful completion of this course fulfills the College language requirement. *Prerequisite:* Greek 112. *Four credit hours.* MISS HIGBIE

232 **Attic Prose** Readings in Plato. *Three or four credit hours.* MRS. KOONCE

[351] **Greek Literature** Thucydides. *Three or four credit hours.*

352 **Greek Literature** Sophocles. *Three or four credit hours.* MRS. KOONCE

[353] **Greek Literature** Demosthenes. *Three or four credit hours.*

[354] **Attic Poetry** Euripides. *Three or four credit hours.*

355 **Greek Literature** Herodotus. *Three or four credit hours.* MRS. KOONCE

[356] **Greek Literature** Plato. *Three or four credit hours.*

[414] **Seminar** Attic orators. *Three or four credit hours.*

491, 492 **Independent Study** Reading in a field of the student's interest, with essays and conferences. *One to three credit hours.* FACULTY

[493] **Seminar** Aeschylus. *Three or four credit hours.*

## History

Chairman, ASSOCIATE PROFESSOR RICHARD MOSS

Professors Frederick Gillum and Harold Raymond; Associate Professors Robert Kany<sup>1</sup>, Lee Feigon, Moss, Robert Weisbrot, and Marilyn Mavrincac<sup>2</sup>; Assistant Professors Joel Bernard<sup>3</sup>, Jane Hunter<sup>3</sup>, and Lindsay Wilson; Lecturer Fraser Cocks<sup>4</sup>

History provides the opportunity to expand an understanding of the human experience through the study of one's own and other cultures and societies as they have evolved through time. It is also a rigorous intellectual discipline involving research techniques, problem solving, and the critical evaluation of evidence. The department offers a wide variety of learning experiences, including lectures, individual tutorials, discussion groups, and research seminars. Students are encouraged to take courses in many areas of history and in interdisciplinary programs and related fields. While a number of distinguished academic historians began their training at Colby, most majors find that history is excellent preparation for careers in business, law, and other professions. In recent years, media research, preservation, and museums have offered new opportunities for persons trained in history.

### Requirements for the Major in History

Twelve semester courses in history, to include at least two courses in each of three major fields: United States history, European (including English) history, and non-Western history. At least one of the courses in each of the three fields should be at the 200 level or higher. Two of the 12 courses counting toward the major may be selected from courses in related fields subject to approval by the department.

All majors must satisfy a comprehensive requirement either by taking a designated senior seminar or by a satisfactory oral presentation on a topic in the student's field of concentration in history.

Details on the division of courses among the fields and on the comprehensive requirement are available at the department office.

At least one January program in the major must be taken and passed.

Majors in history may apply during their junior year for selection for admission to the department honors program. On successful completion of the work of the honors program and of the major, their graduation from the College will be noted as being "With Honors in History."

The point scale for retention of the major applies to all courses in history. With the exception of History 111, 112, no requirement for the major may be taken pass/fail.

### Requirements for the Concentration in Quantitative Analysis

Computer Science 125; History 294; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491.

<sup>1</sup>January only.

<sup>2</sup>On leave first semester; part-time second semester.

<sup>3</sup>On leave full year.

<sup>4</sup>Part-time.

- 111 Cultural History of Europe I** A survey of principal trends in European history from the fall of Rome to the eighteenth century. Significant works of literature, philosophy, political theory, art, and music examined in the context of major developments in society and politics. Selections from Aquinas, Dante, Machiavelli, Luther, and Descartes. *Four credit hours.* MS. WILSON
- 112 Cultural History of Europe II** A survey of principal trends in European history from the eighteenth century to the present. An examination of political, intellectual, and cultural developments, including the emergence of nationalism, liberalism, socialism, fascism, and feminism. Selections from great social thinkers like Marx, Darwin, Freud, and Le Beauvoir. *Four credit hours.* MS. WILSON
- 123, 124 Survey of United States History** United States history from the age of discovery to the present. Although chronological symmetry is maintained, an effort is made to demonstrate the particular value of political, economic, and constitutional interpretations. *Four credit hours.* MR. MOSS AND MR. WEISBROT
- 151, 152 Self, State, and Society in East Asia** Listed as East Asian Studies 151, 152 (q.v.). *Four credit hours.* MR. FEIGON AND MS. FUJIE
- 157, 158j, [158] Introduction to History** An examination of some of the problems posed by studying the past and an introduction to the tools and methods used by the historian. Each section will include some discussion of the general nature of history and examine in detail limited historical topics. 157: A survey of Irish history from pre-Christian times to the present with emphasis on the period from 1800 to 1900. 158j: Themes of the American Revolution: the emergence of American institutions and traditions, viewed through different interpretations of events and systems from the coming of the Revolution to the adoption of the Constitution. Enrollment limited. *Three credit hours.* MR. COCKS AND MR. KANY
- 211j Public Lives/Private Lives: Men and Women in Europe from the Middle Ages to the Present** An examination of the effects of gender and historical situation on individuals, values, experiences, and expectations from birth to death. The lives of a number of ordinary and extraordinary people—students, workers, reformers, philosophers, kings, and saints—will be studied against the backdrop of significant events or periods in European history. *Three credit hours.* MS. WILSON
- [212] The American Frontier** The discovery, conquest, occupation, and transformation of the American wilderness, its inhabitants, and resources from 1600 to 1890. *Three credit hours.*
- [213] African History and Cultures I** A selected survey of major themes and events in African history up to 1800. The approach will be chronological and topical, surveying specific epochs and problems of African history in chronological order. Our interests will be directed towards the history of Africa and Africans while not ignoring the influence of Europeans, Arabs, East Indians, Malaysians, or the Chinese in Africa. *Three credit hours.*
- [214] African History and Cultures II** Major issues in African history from 1800 to the present, concentrating on the twentieth century. Special emphasis will be

placed upon the European presence in Africa, the rise of nationalism, and selected post-independence conflicts. The people and societies of Africa, and major recent developments in their history as a background for better understanding current events. *Three credit hours.*

[215] **America and Asia: Attitudes and Relationships** A history of United States attitudes and relations with Asian countries, principally China and Japan, particularly as manifested in such episodes as the opium wars, the anti-Oriental exclusion laws, the open-door policy, the Pacific side of World War II, the Korean War, the war in Vietnam, and present-day U.S.-China and U.S.-Japan relations. The American view of East Asia will be compared with other accounts of life in the region. *Four credit hours.*

†[216] **The Chinese Revolution** Modern China, concentrating on the massive upheavals that have shaped her history in the past century, from the Taiping Rebellion of 1850-1864 to the death of Mao. *Four credit hours.*

217j **The Administration of John F. Kennedy** A case study in presidential leadership. *Three credit hours.* MR. WEISBROT

[218] **Recreating the Past** Methods of interpreting the record of past events; focusing on the works of professional historians, and including novelists and others who have contributed to the understanding of history. *Three or four credit hours.*

221, 222 **Survey of Latin American History** A survey of the history of South and Central America from colonial times to the present. *Three credit hours.*  
INSTRUCTOR

†[231] **Medieval History, 500-1300** A survey of the society and culture of the Middle Ages. Topics include feudalism, monasticism, the proprietary church system, the agricultural revolution, the Crusades, the rise of national monarchies and the struggles between church and state, scholasticism, troubadour poetry, and Gothic cathedrals. *Three or four credit hours.*

†[232] **Renaissance and Reformation, 1300-1600** A survey of the movements for ethical, political, and religious reform in Europe and their impact on the family, the church, and the state. Topics include humanism, the rise of capitalism, art and patronage, education and printing, the search for utopias, and the realities of social disorder and political conflict. *Three or four credit hours.*

[235] **History of Business in American Life** The current dilemmas of the national economy, interpreted through the perspective of American economic history; the emergence of the United States as an industrial nation, the formation of key industries and the effect on workers' daily lives, and the interaction of political change, business, and labor. *Three credit hours.*

[236] **History of Women in Europe** European women's roles and experiences from the early nineteenth century through the second world war. The interaction of industrialization, wars, and reform movements with women's evolving legal and social positions. Focus on issues in France and Britain, with comparative readings on German and Russian women. *Three or four credit hours.*

**237 The Emergence of Modern Britain, 1688-1867** England during the American, French, and Industrial revolutions. *Three credit hours.* MR. GILLUM

**238 The Decline of Britain, 1867-1980** Britain from the age of imperialism through the era of world wars and to the dissolution of the empire. *Three credit hours.* MR. GILLUM

**239j January: Trans-Siberian Railroad** A month-long visit to the Soviet Union, the People's Republic of Mongolia, and the People's Republic of China; included will be stops at many major cities of Siberia, Mongolia, and Northern China. Intensive reading required. *Two credit hours.* MR. FEIGON

**[253] American Diplomatic History, 1775-1898** A historical study of American foreign policy and of the diplomacy conducted by the United States from the time of its war for independence to the time of its specific involvement in the politics of world power. *Three or four credit hours.*

**254d1 Comparative Communism** An examination of Marxist theory and the reality of the two main states calling themselves Marxist—the Soviet Union and the People's Republic of China. Also listed as Government 254d1. *Four credit hours.* MR. HAUSS AND MR. FEIGON

**[255] European Diplomatic History, 1815-1890** Selected topics in diplomatic history analyzing the European state system and the relations existing among the major European powers. Specific attention will be given to the theme of "The Concert of Europe" and the development of national liberation movements. *Three or four credit hours.*

**[256] European and American Diplomatic History, 1890-1945** Selected topics in diplomatic history analyzing the alteration of the European state system in war and revolution and the emergence of two non-European world powers, the Soviet Union and the United States. Specific attention will be given to the development of international organizations. *Three or four credit hours.*

**257 History of Women in America** An examination of how gender has shaped the personal and collective experiences of women; the changing definitions of femininity throughout history, women's contributions to work, and ways women have accepted or challenged notions of femininity and their roles in home, community, and the work place. *Three credit hours.* INSTRUCTOR

**†[258] American Character and Culture** The history and meaning of America as reflected in the life experiences of some Americans. Readings include autobiographies (Franklin, Davy Crockett, Jane Addams, Malcolm X), studies of American character (de Tocqueville, Turner, David Potter), and selected fiction. *Three or four credit hours.*

**272 War and Revolution in Vietnam** Listed as Government 271d2 (q.v.). *Three or four credit hours.* MR. FEIGON AND MR. BOWEN

**277 Afro-American History: From Slavery to Freedom** A study of black experience in America, focusing on the nature of racism, the experience of slavery, the



role of Afro-Americans in shaping the nation's history, and the struggle for equality from colonial times until the present. *Three credit hours.* MR. WEISBROT

[278] **Afro-American History II** The struggle for equality, 1865 to the present. The continuing patterns of discrimination against blacks since the Civil War, black strategies of resistance and accommodation, and emergence of the civil rights movement as a major force in national politics. No prerequisites, but develops themes presented in History 277. *Three credit hours.*

\*294 **The Use of the Computer in Historical Studies** An introduction to the use of the computer and "SPSS" for historical research. Group projects using nineteenth-century United States manuscript census, French arrest and British parliamentary records, will all provide "hands-on" experience. Coding, data analysis, and critiques of quantitative history articles are included. *Two or three credit hours.* MS. MAVRINAC

295j **Internship in History** Internships in museums, historical restoration, historical societies, and preservation centers. Nongraded, credit or no entry, unless otherwise approved. *Prerequisite:* Permission of the instructor. *Zero to three credit hours.* FACULTY

[311] **Tutorial in History** Individual or small group sessions, especially for juniors. Enrollment limited. *Prerequisite:* Permission of the instructor. *Three credit hours.*

312 **The Atlantic Revolutions** A comparative evaluation of the origins, stages of development, and significance of the French and American revolutions from circa 1750 to 1815; theories of revolution and historiography of the "Atlantic" revolutions. *Prerequisite:* Permission of the instructor. *Three or four credit hours.* MR. MOSS AND MR. RAYMOND

\*315 **The First World War and the Crisis of European Society** Total war without generals or heroes. Emphasis will be given to the effect of the war on British and German societies. *Three credit hours.* MR. GILLUM

316 **The Second World War** A military and political analysis of the events and forces in the war of 1939-1945 as it affected the countries and the people involved, focusing on the European theatre of operations. Some previous knowledge of European history is recommended. *Three credit hours.* MR. GILLUM

†[317] **The Introduction of Marxism into China** The development of Marxist ideology in Europe interwoven with the history of the evolution of Chinese thought and society in the late nineteenth and early twentieth centuries as a result of the impact of Western imperialism. The origin of the Chinese environment into which Marxist thought was received and transformed and the impact of Marxist ideas on China through the early 1930s. *Four credit hours.*

†[318] **The People's Republic of China** The development of Chinese Communist theories and practice since 1949 and their relation to socialist ideas and activities in other countries. Special emphasis will be placed on the socioeconomic background

in China within which Maoist theory developed, particularly on the problems involved in attempting to bring about a socialist reorganization of state and society while engaged in industrial development. *Four credit hours.*

†[331] **Women, the Family, and the State in Europe, 400 B.C.-1850 A.D.** A survey of ideas about women, the family, and the state expressed by prominent social thinkers from Plato to Darwin and their critics. Exploring the question of how Christianity, revolutionary rhetoric, and science supported or challenged prevailing attitudes and mores regarding the nature and place of the sexes; the relationship between ideas about gender and the reality of women's lives from classical Greece to the Industrial Revolution. *Prerequisite:* History 111 or 112 or permission of the instructor. *Three or four credit hours.*

333 **Medieval England** A political survey of English history in the Saxon, Norman, Angevin, Lancastrian, and Yorkist periods. Formerly listed as History 332. *Three credit hours.* MR. GILLUM

[334] **Crisis and Reform: The 1960s** The Utopian hopes for government during the Kennedy and Johnson years, both in solving social problems and in containing Communism around the world. Readings focus on the shaping of federal policies, their domestic and global impact, and the cultural and political legacy of this era. *Three or four credit hours.*

†[336] **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. *Three credit hours.*

†[338] **A Constitutional and Legal History of Medieval England** English governmental and legal principles in the Saxon period, in the time of Henry II, and in the thirteenth century. Developments since 1307 will be considered briefly. *Three credit hours.*

341, 342 **History of Russia and the USSR** The expansion of the Russian state and the political and social development of the Russian people under the Tsarist and Soviet regimes. *Three credit hours.* MR. RAYMOND

[351] **The Age of Reason and Enlightenment** An examination of the scientific revolution and its impact on the social, ethical, and political thought of the Enlightenment. The relationship between science and capitalism, religion, and the occult will be explored. Readings from Galileo, Bacon, Descartes, Locke, Voltaire, Rousseau, and Diderot. *Three or four credit hours.*

[352] **Intellectual and Cultural History of Modern Europe** A historical survey of the changes in the idea of history expressed by representative speculators from Hegel to Heidegger. Major attention will be given to the contributions made by Darwin, Marx, and Freud in the development of the modern ideologies of liberalism, Communism, and fascism, and the production of the cultural phenomenon of existentialism. *Three or four credit hours.*

[353] **American Culture and Society, 1865-1975** The development of modern American culture from the Gilded Age to the "Me" decade, from the Civil War to Viet-

nam. Social change and the evolving meaning of work, leisure, the individual, and the social experiment as reflected in literature, film, music, and art. *Three or four credit hours.*

**354 American Intellectual History, 1865-1917** An analysis of the dominant intellectual controversies during America's transition from an agrarian to an industrialized society. Focus is upon the effort made by American thinkers to redefine the meaning of community and the relationship of the individual to that community. *Three credit hours.* INSTRUCTOR

[355] **The French Revolution and Napoleon** The origins and political and social development of the French Revolution and Napoleonic dictatorship, 1789-1815. Considerable attention will be given to theories of revolution. *Three credit hours.*

†[357] **Modern Germany** The political and economic development and the international influence of Germany from 1806 to 1945. *Three credit hours.*

[358] **Modern France, 1815-1946** A survey of French political history from the restoration of the monarchy to the rerestitution of the republic. Attention will be given to the intellectual and cultural developments that have shaped republicanism in modern France. *Three or four credit hours.*

[371] **The American South** Social, economic, political, and cultural history of the American South from 1600 to 1980, and its troubled relationship with the rest of the Union. *Three credit hours.*

**372 The American Civil War** The Civil War and its military and political history from about 1860 to 1865. *Three credit hours.* MR. RAYMOND

[373] **American Political History, 1865-1929** American reform from the Reconstruction to the influence of the progressives. Topics include the changing nature of national politics in response to sectional and racial tensions, the growth of industry and urban life, agrarian and labor discontent, and the country's deepening involvement in world affairs. *Three or four credit hours.*

[374] **American Political History, 1929 to the Present** The accelerated growth of federal power and responsibilities in meeting the challenges posed by the Great Depression, World War II, national security needs in a nuclear age, and rising demands by blacks and other minorities for equal rights. No prerequisites, but develops themes presented in History 373. *Three or four credit hours.*

**376d1 America: The New World, 1607-1783** The American colonies from their earliest settlement to the Revolution; the emergence of a unique American society and mind from the Puritans to George Washington. *Three or four credit hours.* INSTRUCTOR

**377 The Coming of the Civil War** An examination of American history from 1840 to 1861, focusing on the breakdown of the American federal democracy and the causes of the Civil War. Consideration of alternative explanations put forward by contemporaries and by later historians. *Prerequisite:* A course in American history or permission of the instructor. *Three or four credit hours.* MR. RAYMOND

[378] **The United States, 1783-1860** The problems of the new nation, including the Constitution, geographical expansion, religious revivalism, reform, democracy, slavery, and sectionalism. *Three credit hours.*

†[379] **Black History** The history of the black American and race relations from the Harlem Renaissance to 1955, including blacks and the New Deal and World War II, and events in the Truman and Eisenhower administrations. *Prerequisite:* History 277, 278, or permission of the instructor. *Three credit hours.*

†[381, 382] **Islamic History, 622-1945** A survey of Islamic history from Hegira (622) to World War II (1945). Particular emphasis will be given to those portions of the Islamic world—the Near East and the Middle East—having greatest impact on the West. An effort will be made to interrelate social and cultural developments with more traditional political and economic interpretations. *Three or four credit hours.*

392 **The Industrial Revolution** The social and economic history of industrialization in America, from 1750 to 1900. *Three credit hours.* INSTRUCTOR

393 **American Cultural History, 1600-1865** American life from the founding to the Civil War as seen from a social and intellectual perspective. Emphasis on the growth of a unique American mind and its relationship to new world social and political development. *Three credit hours.* MR. MOSS

415 **Seminar in American History** Specific topics in American history. *Prerequisite:* Permission of the instructor. *Four credit hours.* INSTRUCTOR

416 **Seminar in American History** "Ways of Seeing: Photography and American Intellectual History, 1840-1940." Principal intellectual issues of the period, and how the work of major photographers corresponds to the responses of thinkers; determining the elements of intellectual history. *Prerequisite:* Permission of the instructor. *Four credit hours.* MR. COCKS

[417] **Seminar in Diplomatic History** Specific topics in diplomatic history. *Prerequisite:* Permission of the instructor. *Three or four credit hours.*

419 **Law and Medicine in Early Modern Europe: The Witch Craze** An examination of the witch craze in sixteenth-century Italy, France, Switzerland, and Scotland, and of the broader issues which it raises regarding women's status in the family, the community, the economy, the church, and the law courts of early modern Europe. The interplay between popular and elite culture before the rise of modern science will be explored. *Prerequisite:* Permission of the instructor. *Four credit hours.* MS. WILSON

432 **Seminar in Black History** "Black Thought and Leadership." An intensive examination of selected leaders in Afro-American history, focusing on civil rights activists and black nationalists of the past century; biographies and writings of W. E. B. DuBois, Marcus Garvey, Martin Luther King, and Malcolm X, among others. *Prerequisite:* Permission of the instructor. *Four credit hours.* MR. WEISBROT

458 **Seminar in Modern Chinese History** The Chinese Trotskyite Movement: Trotsky's works on the Chinese revolution, the Trotsky-Stalin debate, the Chinese

Trotskyite movement and its failure. Formerly listed as History 457. *Prerequisite:* Permission of the instructor. *Four credit hours.* MR. FEIGON

**491, 492 Independent Study** A study of history through individual projects. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY

[494] **The Holocaust** An examination of the Holocaust through literary and historical approaches, drawing on both primary and secondary sources, exploring the facts of the Holocaust, and confronting the moral and philosophical challenges posed by the event. Concurrent enrollment in appropriate section of English 494 required. *Prerequisite:* Permission of the instructor. *Four credit hours.*

## Human Development

*Director,* PROFESSOR JONAS ROSENTHAL

*STEERING COMMITTEE:* Professors Miriam Bennett (Biology), Thomas Easton (Biology), Frederick Geib (Sociology), Yeager Hudson (Philosophy), Harold Jacobson (Education), Diane Kierstead (Psychology), Lewis Lester (Psychology), Robert Reuman (Philosophy), Nicholas Rohrman (Psychology), Sonya Rose (Sociology), Rosenthal (Sociology), and six students

A multidisciplinary study of the origin and development of man and woman. Academic aims of the program are to provide an understanding of the development of humans as biological and psychological organisms; an appreciation of the relationship between individuals and their social environment; an opportunity to consider possible future directions for both the individual and society; and working experience with a local, state, or regional agency involved in some aspect of human development.

### Requirements for the Major in Human Development

In biology: 121, 122, and either 134 or 271.

In human development: 394, 493.

In philosophy: 331, 332.

In psychology: 111 and two additional courses, not to include 214 or 255.

In sociology: 115; 131 or Anthropology 111; one additional course in sociology or anthropology, not to include Sociology 237 or 271.

Either Sociology 271 or Psychology 214.

Either Psychology 255 or Sociology 237.

An additional nine credit hours above the introductory level in one of the following areas: anthropology, biology, philosophy-religion, psychology, or sociology.

At least one independent study project in human development taken either in January or one of the semesters.

The point scale for retention of the major applies to all courses offered toward the major. No requirement for the major may be taken pass/fail.

### Requirements for the Concentration in Quantitative Analysis

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491; one course from Computer Science 126, 132, 231, Mathematics 115, 117, 119, 121, 123, Philosophy 152, 258.

**394 Seminar** The study of multidisciplinary perspectives on problems in human development. *Two credit hours.* MS. ROSE

**491, 492 Independent Study** Individual study of special problems in human development in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor and the program director. *One to four credit hours.* FACULTY

**493 Seminar in Human Development** An interdisciplinary seminar required of all senior majors in human development. Students are expected to integrate their previous work in the major into an articulated perspective. *Three credit hours.* MR. ROSENTHAL

## Italian

*In the department of modern foreign languages.*

**125d, 126 Elementary Italian** Introduction to the language, with emphasis on understanding, speaking, and reading. Use of taped materials in the language laboratory is a regular part of the class work. *Four credit hours.* MR. FERGUSON

**127d Intermediate Italian** Intensive review of the fundamentals of the language. Practice in the oral-aural skills, supplemented by work in the language laboratory and composition, all based on a variety of modern readings. *Prerequisite:* Italian 126 or permission of the instructor. *Three credit hours.* MR. FERGUSON

**[138] Introduction to Italian Literature and Culture** Representative works by major authors since Unification, emphasizing the period since World War II. Parallel readings in the historical and cultural background. Regular practice in composition. *Prerequisite:* Italian 127 or permission of the instructor. *Four credit hours.*

## January Program

**002j Emergency Medical Technician Training** Intensive training in basic techniques practiced in emergency medicine. Theory and practical exercises given in conjunction with Kennebec Valley Vocational Technical Institute. *Prerequisite:* Permission of the faculty sponsor. *Noncredit.* INSTRUCTOR

**091j, 291j Individual Projects** Each department and interdisciplinary major sponsors a number of individual January program projects, primarily for majors, to be offered under the appropriate subject heading. At the time of registration the student and sponsor will determine if the project is to be graded or nongraded, and if it is to be for credit or noncredit. The number of credits possible varies with department or program. *Prerequisite:* Permission of the sponsor. 091j: *noncredit.* 291j: *two or three credit hours.* FACULTY

**Other January Programs** Courses to be offered in January are listed with the department of the faculty member sponsoring the course. Listings of all available January programs will be available in October, when students register for the January term. Enrollment will be limited in most courses, and freshmen will have priority in all 100-level courses.

# Japanese

*In the department of modern foreign languages. All courses in Japanese are part of the East Asian studies program.*

**125, 126 Elementary Japanese** Introduction to the spoken and written language, to provide a thorough grounding in all the language skills: speaking, listening, reading, and writing. *Four credit hours.* MS. PRINDLE

**127, 128 Intermediate Japanese** A continuation of the methods and goals used in elementary Japanese. *Prerequisite:* Japanese 126. *Four credit hours.* MS. PRINDLE

**321, 322 Advanced Japanese** Advanced readings in Japanese. Designed primarily for those students who have had substantial experience in a Japanese-speaking setting. *Prerequisite:* Japanese 128 or permission of the instructor. *Three or four credit hours.* MS. PRINDLE

**491, 492 Independent Study** Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *Two to four credit hours.* FACULTY

# Latin

*In the department of classics.*

**111 Intensive Elementary Latin** An intensive course in Latin grammar and syntax. *Four credit hours.* MR. SMITH

**112 Intensive Intermediate Latin** Selected readings from Cicero. *Four credit hours.* MISS HIGBIE

**131 Introduction to Latin Literature** Roman comedy. Successful completion of this course fulfills the College language requirement. *Prerequisite:* Latin 112 or permission of the instructor. *Four credit hours.* MRS. KOONCE

**\*232d1 Introduction to Latin Poetry** Readings in Terence. Successful completion of this course fulfills the College language requirement. *Prerequisite:* Latin 112 or permission of the instructor. *Three or four credit hours.* MRS. KOONCE

[251] **Latin Literature** Roman drama. *Three or four credit hours.*

[351] **Latin Literature** Lucretius. *Three or four credit hours.*

[352] **Latin Literature** Livy. *Three or four credit hours.*

**353 Latin Literature** Roman elegy and lyrics. *Three or four credit hours.* MR. SMITH

[354] **Latin Literature** Cicero: selected speeches. *Three or four credit hours.*

- 355d2 **Latin Literature** Roman satire. *Three or four credit hours.* MR. SMITH
- [356] **Latin Literature** Cicero: letters. *Three or four credit hours.*
- †[357] **Latin Literature** Horace: *Odes* and *Ars Poetica*. *Three or four credit hours.*
- †[358] **Latin Literature** Tacitus. *Three or four credit hours.*
- [359] **Latin Literature** Virgil: *Eclogues* and *Georgics*. *Three or four credit hours.*
- [371] **Latin Literature** Terence. *Three or four credit hours.*
- 491, 492 **Independent Study** Reading in a field of the student's interest, with essays and conferences. *One to three credit hours by prior arrangement.* FACULTY
- †[494] **Seminar** Virgil: *Aeneid*. *Three or four credit hours.*

## Legal Studies

Director, PROFESSOR ALBERT MAVRINAC

ADVISORY COMMITTEE: Professors William Cotter (*Government*), Frederick Gillum (*History*), Sandy Maisel<sup>1</sup> (*Government*), Mavrinac (*Government*), Robert McArthur<sup>2</sup> (*Philosophy*), James Meehan (*Economics*), Sonya Rose (*Sociology*), and Guenter Weissberg<sup>3</sup> (*Government*)

The legal studies program consists of a selection of courses that examine the law and the legal process from diverse disciplinary perspectives. In the tradition of the liberal arts, these courses focus on the law as it relates to other areas of knowledge. The program is designed particularly for the student who is not planning to go to law school and is specifically not part of a pre-law curriculum. Courses range from those dealing with such specialized areas of the law as constitutional, international, and business, to those which examine the law in the broader perspectives of economic thought or moral philosophy. Some courses focus on the Anglo-American common law, while others use comparative techniques to gain insights into the legal systems of other societies with different legal traditions. The professors in these courses come from many disciplines and are all active in research, writing, or consulting on legal matters or related subjects. Two are members of the bar; one is a specialist in the law of the sea; others have had extensive specialized training in American law schools; several have worked in or with federal, state, or foreign governments.

Students who are interested in attending law school should consult the committee on professional preparation for law and government service, and should avoid over-concentration on law-related courses as undergraduates.

### Courses Offered in the Legal Studies Program

*Administrative Science*: 354 Law.

*Economics*: 312 Topics in Law and Economics; 331 Industrial Organization and Anti-trust Economics; 332 Regulated Industries.

*Government*: 313 American Constitutional Law I; 314 American Constitutional Law II; 319 Law and Social Change: Women and Minorities; 338 International Law; 412 Seminar on Law and Society; 458 Seminar on the United Nations.



*History*: 338 A Constitutional and Legal History of Medieval England.  
*Philosophy*: 118 Central Philosophical Issues: Philosophy of Law.

<sup>1</sup>On leave first semester.

<sup>2</sup>On leave full year.

<sup>3</sup>On leave second semester.

## Literature in Translation

*Offered by the departments of classics, English, and modern foreign languages.*

- 133 Greek Myth and Literature** Listed as Classics 133 (q.v.). *Three or four credit hours.* MISS HIGBIE
- †[177] **Topics in Classics** Listed as Classics 177 (q.v.). *Two or three credit hours.*
- \*178 **Roman and English Satire** Listed as Classics 178 (q.v.). *Two or three credit hours.* MR. SMITH
- †[225, 226] **Russian Culture and Civilization** Listed as Russian 223, 224 (q.v.). *Three credit hours.*
- 231, 236 Literature of China and Japan in Translation** Listed as East Asian Studies 231, 232. *Four credit hours.* MR. KEENAN AND MS. PRINDLE
- [232] **Greek Tragedy** Listed as Classics 232 (q.v.). *Three or four credit hours.*
- 233 Topics in Russian Literature: Dostoevsky** Listed as Russian 231. *Three credit hours.* MR. ANEMONE
- †[234] **The Heroic Ideal in Early Greek Poetry** Listed as Classics 234 (q.v.). *Three or four credit hours.*
- \*235d2 **Québec in Transition** Listed as French 235 (q.v.). *Three or four credit hours.* MR. WEISS
- \*237, 238 **Russian Literature in Translation I, II** Listed as Russian 237, 238 (q.v.). *Three credit hours.* MR. ANEMONE
- †[239] **Topics in Russian Literature** Listed as Russian 232. *Three credit hours.*
- [251, 252] **Introduction to Chinese Literature in Translation** Listed as Chinese 251, 252 (q.v.). *Three credit hours.*
- [276] **Dante in Translation** Listed as English 276 (q.v.). *Three or four credit hours.*
- \*278 **Italian Fiction and Film** Listed as English 278 (q.v.). *Four credit hours.* MR. BRANCACCIO
- 373, [374] The Development of Dramatic Art I, II** Listed as English 373, 374 (q.v.). *Three or four credit hours.*

[375], 376 **Studies in Drama** Listed as English 375, 376 (q.v.). *Three credit hours.*  
MR. BINNIE

[437] **The Literature of Existentialism** Listed as English 437 (q.v.). *Three or four credit hours.*

## Mathematics

*Chairman, ASSOCIATE PROFESSOR DAVID KURTZ*

*Associate Professors Donald Small<sup>1</sup>, Homer Hayslett, and Kurtz; Assistant Professors Dale Skrien, Carol Bassett<sup>2</sup>, John Hosack, Kenneth Lane, and John Gimbel; Visiting Assistant Professor Amy Boyd<sup>3</sup>; Instructors Margaret Moore and Stuart Swain*

The mathematics department offers courses in computer science (see listings under "Computer Science") and mathematics for students who: (1) plan a career in an area of pure or applied mathematics or computer science; (2) need mathematics as support for their chosen major; or (3) elect to take mathematics as part of their liberal arts education or to partially fulfill the science requirement.

Colby mathematics majors in recent years have entered graduate school to do advanced work in such areas as mathematics, statistics, computer science, bi-mathematics, and physics. They have also used the major as a solid foundation for careers in teaching, law, insurance, banking, management, and other areas.

### Requirements for the Major in Mathematics

Mathematics 361, 362, 401, 402, 433, 434; and 12 additional hours selected from the following: Computer Science 231 or mathematics courses numbered 300 or above.

The point scale for retention of the major applies to all courses taken in the department. No requirement for the major may be taken pass/fail.

Freshmen planning to major in mathematics or one of the physical sciences should elect Mathematics 123 or should elect in the sequence Mathematics 121, 122, 222, 253 (advanced placement or high school background would determine where a student should enter the sequence).

### Requirements for the Major in Mathematics with a Concentration in Computer Science

Computer Science 125, 132, 231; Mathematics 124 or 222; 253; 361, 362 or 378; 401, 402; three additional credit hours at the 400 level in mathematics; and at least five additional credit hours in 300-level or 400-level courses in either computer science or mathematics.

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

Students interested in teaching, private and public, are urged to read the education section of the catalogue and to contact a member of the education department.

### Requirements for the Concentration in Applied Mathematics

Computer Science 125; Mathematics 272, 311, 372, 381, 382; Quantitative Analysis 491; one course from another discipline in which mathematical skills are applied, such as Administrative Science 372, Economics 336, 393, or Physics 321.

<sup>1</sup>On leave full year.

<sup>2</sup>Part-time first semester; on leave second semester.

<sup>3</sup>Joint appointment in administrative science and mathematics

**011j Pre-Calculus** Absolute values; equations of lines, circles, and parabolas; functional notation; combining functions; graphing functions; applications of functions to word problems; polynomial and rational functions; trigonometric functions of angles; trigonometric functions of real numbers. *Noncredit.* MRS. BASSETT

†[111] **Introduction to Mathematics** The historical and contemporary role of mathematics in culture and intellectual endeavor; history of mathematics; the nature of contemporary mathematics; mathematics as a tool for problem solving; logical reasoning; topics from geometry. *Four credit hours.*

**112d1 Non-calculus Statistics** Description of data, confidence intervals, tests of hypotheses, non-parametric statistics, correlation and regression (including multiple regression), use of computer statistical packages. *Four credit hours.* MR. HAYSLETT

[115] **Finite Mathematics** Selected topics from modern mathematics, including probability, logic, linear programming, and the theory of games. Statistics is not treated but is offered in other courses. *Four credit hours.*

**117 Introduction to Discrete Mathematics** A study of logic, sets, relations, and combinatorics. Formerly listed as Mathematics 127. *Four credit hours.* MR. KURTZ

**118 Computational Linear Algebra with Applications** An introduction to linear algebra, taught from a computational and algorithmic point of view, with applications from a variety of disciplines. Matrices and determinants, linear systems, vector spaces, and eigenvalues. *Four credit hours.* MR. SKRIEN

**119d Introduction to Calculus and Its Applications** Differential and integral calculus of functions of one variable: derivatives, integrals, and applications. Includes exponential and logarithmic functions. Emphasis on geometric understanding; applications taken from the social and biological sciences. Computer-based symbolic manipulator will be used. Not part of a calculus sequence. Credit is not given for both Mathematics 121 and 119. Students electing this course must take the mathematics placement test. *Four credit hours.* MR. KURTZ

**121d Calculus I** Differential and integral calculus of one variable: limits and continuity, differentiation and its applications, antiderivatives, the definite integral and its applications. Students electing this course must take the mathematics placement test during freshman orientation. *Four credit hours.* FACULTY

**122d Calculus II** Further study of differential and integral calculus of one variable: exponential and logarithmic functions, techniques of integration, infinite series. *Prerequisite:* Mathematics 121. *Four credit hours.* FACULTY

**123 Calculus of One and Several Variables I** Differential calculus of one and several variables: functions, limits, continuity, differentiation. May not be taken for credit if the student has earned credit for Mathematics 121. Recommended for students who have had a calculus course in high school. Note that Mathematics 123 and 124 satisfy all calculus prerequisites for upper-level courses. Students electing this course must take the mathematics placement test during freshman orientation. *Four credit hours.* FACULTY

**124 Calculus of One and Several Variables II** Integral calculus of one and several variables: integration, infinite series, introduction to differential equations. May not be taken for credit if the student has earned credit for Mathematics 122. Note that Mathematics 123 and 124 satisfy all calculus prerequisites for upper-level courses. *Prerequisite:* Mathematics 123. *Four credit hours.* FACULTY

**193 Freshman Seminar I** An introduction to some of the basic ideas of mathematics: conjectures, refutations, proofs. Topics may include number theory, set theory, recursion, combinatorics, geometry. Formerly listed as Mathematics 197. *Prerequisite:* Freshman standing and permission of the instructor. Nongraded. *One credit hour.* INSTRUCTOR

**194 Freshman Seminar II** Topics may include number theory, set theory, recursion, combinatorics, geometry. Formerly listed as Mathematics 198. *Prerequisite:* Freshman standing and permission of the instructor. Nongraded. *One credit hour.* INSTRUCTOR

**222d Multivariable Calculus** Topics in multivariable calculus. May not be taken for credit if the student has earned credit for Mathematics 124. *Prerequisite:* Mathematics 122. *Four credit hours.* FACULTY

**231d Elementary Statistics and Regression Analysis** Elementary probability theory, special discrete and continuous distributions, descriptive statistics, sampling theory, confidence intervals, tests of hypotheses, correlation, linear regression, and multiple linear regression. Examples and applications slanted toward economics. May not be taken by students who have taken Mathematics 241. *Prerequisite:* Mathematics 121 or 123. *Four credit hours.* INSTRUCTOR

**[241d, 242] Elementary Statistics I, II** Statistics I: Descriptive statistics, elementary probability theory, binomial and normal distributions, elementary sampling theory, tests of hypotheses, confidence intervals, correlation. Applications are emphasized. Offered each semester. Statistics II: A continuation, including regression, analysis of variance, and nonparametric statistics. Offered second semester only. Neither course open to mathematics majors or students who have taken Mathematics 231. *Prerequisite:* Mathematics 121 or 123. Mathematics 241: *four credit hours*; 242: *two credit hours.*

**253d Linear Algebra** Solutions of linear systems of equations, matrix algebra, determinants. Also an introduction to abstract vector spaces and linear transformations, eigenvalues, and eigenvectors. Includes material on logic, sets, relations, functions, and proof techniques. Formerly listed as Mathematics 221. *Prerequisite:* Mathematics 122 or 124. *Four credit hours.* MR. KURTZ

**272 Introduction to Mathematical Modeling** Deterministic, probabilistic, and simulation modeling of situations and phenomena—such as arms races, spread of epidemics, cultural stability, population growth, political coalitions—from a variety of subject areas. *Prerequisites:* Computer Science 125, one semester of calculus, and Mathematics 112, 231, 241, or 381. *Four credit hours.* MR. HAYSLETT

**311 Introduction to Differential Equations** Theory and solution methods of first- and second-order ordinary differential equations with applications; first-order

linear systems, solutions, and stability. *Prerequisite:* Mathematics 253, and 124 or 222. *Three credit hours.* MR. LANE

**312 Topics in Differential Analysis** A continuation of Mathematics 311. Partial differential equations, particularly linear equations. Also Fourier series, Fourier transforms, Sturm-Liouville theorem as applied to partial differential equations; an introduction to potential theory; Green's functions. *Prerequisite:* Mathematics 311. *Three credit hours.* MR. LANE

[315] **Introduction to Mathematical Systems** Qualitative discussion of the nature of systemic analysis, with examples drawn from computer science, ecological systems, human physiology, physics, and economics. Topics include linear systems of differential equations, control theory, nonlinear stability theory, numerical solutions of systems, discrete systems. *Prerequisite:* Mathematics 253, and 124 or 222, and knowledge of a computer language. *Three credit hours.*

[332] **Introductory Numerical Analysis** Solution by numerical methods of linear and nonlinear equations, systems of equations, and differential equations; numerical integration; polynomial approximation; matrix inversion; error analysis. A time-sharing computer system will be used to solve problems. *Prerequisite:* Some programming experience (FORTRAN recommended), Mathematics 253, and 124 or 222. *Three credit hours.*

**336 Mathematical Economics** Listed as Economics 336 (q.v.). *Prerequisite:* Economics 223 or 224 and Mathematics 124 or 222. *Three credit hours.* MR. GRIM AND MR. LANE

†[352] **Complex Variables** The arithmetic and calculus of complex numbers. The properties of analytic functions, including mapping by elementary functions, conformal mapping, residues, and poles. *Prerequisite:* Mathematics 253, and 124 or 222. *Three credit hours.*

**361, 362 Higher Algebra** Introduction to algebraic structures, such as groups, rings, integral domains, and fields. *Prerequisite:* Mathematics 253, and 124 or 222, or permission of the instructor. *Three credit hours.* MR. GIMBEL

**372 Discrete Mathematics** Selected topics in modern mathematics and operations research that have applications in current societal problems. The content will vary from year to year, but topics such as graph theory, combinatorics, game theory, linear programming, optimization techniques, and Markov chains may be considered. *Prerequisite:* Mathematics 253, and 124 or 222, or permission of the instructor. *Three or four credit hours.* MR. KURTZ

†[378] **Introduction to the Theory of Computation** Formal languages, computability, non-computability, complexity classes, propositional calculus, predicate calculus. *Prerequisite:* Computer Science 125, Mathematics 253. *Three credit hours.* INSTRUCTOR

**381, 382 Mathematical Statistics** Random variables, special probability distributions, moment generating functions, maximum likelihood estimators, sampling distributions, regression, tests of hypotheses, confidence intervals, linear models,

analysis of variance. Although applications are discussed, emphasis is on theory. *Prerequisite:* Mathematics 124 or 222. *Three credit hours.* INSTRUCTOR

**401, 402 Mathematics Seminar** Discussion of topics in pure and applied mathematics. Nongraded. *Prerequisite:* Senior standing in the mathematics major or a combined major including mathematics. *One credit hour for the year.* FACULTY

**433 Real Analysis** More advanced topics of calculus and an introduction to real analysis. *Prerequisite:* Mathematics 124 or 222 and senior standing, or permission of the instructor. *Three credit hours.* MR. SKRIEN

**434 Topics in Advanced Mathematics** Content may vary from year to year, but topics such as topology, measure theory, functional analysis, or related areas may be considered. *Prerequisite:* Mathematics 433. *Three credit hours.* MR. SKRIEN

**491, 492 Independent Study** Independent study in an area of mathematics of particular interest to the student. *Prerequisite:* Mathematics major and permission of the department. *One to four credit hours.* FACULTY

## Modern Foreign Languages

*Chairman,* PROFESSOR JEAN BUNDY

*Professors Bundy, Henry Holland<sup>1</sup>, Francisco Cauz, Guy Filosof, and Jonathan Weiss<sup>2</sup>; Associate Professors Hubert Kueter, Charles Ferguson, Priscilla Doel, James McIntyre<sup>3</sup>, Arthur Greenspan, Peter Nutting, Jane Moss, and Jorge Olivares; Assistant Professors Anthony Anemone, Margrit Lichterfeld<sup>4</sup>, Suellen Diaconoff; Instructors Benoît Melançon<sup>5</sup>, Marcia Tardito, Javier Gonzalez-Alonso, David Keenan, Tamae Prindle, and Elizabeth Bowen<sup>6</sup>; Lecturers Barbara Nelson<sup>7</sup>, Dace Weiss<sup>7</sup>, Ann Mabbott<sup>7</sup>, and Vivian Pyle<sup>7</sup>*

The programs in modern foreign languages are designed to bring students into close contact with the products of imagination and inquiry of other cultures; at the same time, the study of foreign languages and literatures heightens one's awareness of one's own culture. Students have the opportunity to study in a wide variety of areas, some interdisciplinary, to participate in one of Colby's language semester programs (Mexico, France, Germany), and to spend their junior year abroad either at Colby's own programs in Caen or Salamanca or at approved programs in other countries. Like most liberal arts majors, the study of foreign languages should be considered as a background leading to a wide variety of careers. Some students go on to pursue advanced degrees in languages and literatures. When languages are combined with course work in history, government, economics, or the natural sciences, career possibilities in law, medicine, business, and government are enhanced. Prospects for teaching languages are somewhat limited, but needs do exist in certain areas, and the department offers both courses and practical training in this field.

*Note:* Majors are offered in French, German, and Spanish; the department also offers instruction in Chinese, Italian, Japanese, Portuguese, and Russian.

Students interested in Russian are invited to consider an independent major, combining their study of Russian with another area of concentration (another language or literature, art, economics, history, music, philosophy, or sociology).

*Teacher Certification:* Students desiring certification for teaching French, German, or Spanish must take Modern Foreign Languages 411, and may in some cases be required to take other specified courses.

<sup>1</sup>Resident director, Colby in Cuernavaca, first semester.

<sup>2</sup>On leave first semester.

<sup>3</sup>On leave full year.

<sup>4</sup>Resident director, Colby in Lübeck, second semester.

<sup>5</sup>Resident director, Colby in Caen, full year.

<sup>6</sup>Resident director, Colby in Dijon, first semester.

<sup>7</sup>Part-time.

[411] **Teaching of Modern Foreign Languages** Problems and methods of teaching modern foreign languages. Readings, discussions, practice work, and criticism. Counts as three hours in education toward the Maine secondary-school teaching certificate. Conducted in English. Nongraded. *Prerequisite:* Two 200-level modern foreign literature courses. *Three credit hours.*

**491, 492 Independent Topics in Modern Foreign Languages** Individual projects in language or literature in which the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the department chairman. *Two to four credit hours.* FACULTY

## Music

*Chairman, ASSOCIATE PROFESSOR PAUL MACHLIN*

*Associate Professors Dorothy Reuman<sup>1</sup> and Machlin; Assistant Professors Jonathan Hallstrom and Rebecca Gerber; Visiting Assistant Professor Wayne Schneider; Ziskind Lecturer Linda Fujie*

The Colby music department includes music historians, composers, and theorists, all of whom are performing musicians. The curriculum for majors and non-majors is designed to provide the broadest possible range of studies in music at all levels, while also allowing students the opportunity to develop their creative and expressive gifts as performers. The department's conviction that music is an art which bears an intimate relationship to the cultural and social matrix from which it springs is reflected in the wide diversity of course offerings.

Facilities include a 394-seat recital hall, two concert grand pianos and several smaller grands, an orchestra and band rehearsal room, an electronic music center with a variety of sound-producing and recording equipment, teaching studios, and practice rooms. Performances are scheduled in the recital hall and in Lorimer Chapel. The fine arts library contains a listening center, tapes and recordings, and resource materials for curricular and recreational needs.

### Requirements for the Major in Music

Music 181, 182, 241, 242, 281, 282, 341, 342, 493 or 494; one elective in music at the 200 level or higher; at least four semesters of graded credit in applied music (individual study or ensemble). Some skill at the keyboard is required of all majors; consult the department.

The point scale for retention of the major applies to all courses in music history and theory. No requirement for the major may be taken pass/fail.

### Requirements for the Concentration in Quantitative Analysis

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491; one course from Computer Science 126, 132, 231, Mathematics 115, 117, 119, 121, 123, Philosophy 152, 258.

Attention is called to the interdisciplinary majors in American studies and performing arts and to the program in women's studies.

<sup>1</sup>Part-time.

**091j Applied Music** Individual instruction for students who wish to devote the month of January to the study of voice or an instrument. Two half-hour lessons weekly, supplemented by individual daily practice. Similar arrangements can be made for students studying off campus. For additional information concerning fees and related matters, see the applied music statement following Music 499. Interested students should consult the department before registering. *Prerequisite:* Permission of the department. *Noncredit.* STAFF

**111d Introduction to Music** The development of perceptive listening and an introduction to the Western musical tradition through the study of selected works. No previous knowledge of music assumed. Cannot be counted toward the music major. *Four credit hours.* MR. SCHNEIDER

**113j Music of Maine** An introduction to the indigenous music of Maine and to techniques of field research through the collecting and documentation of musical traditions in the state. Students will participate in field work, conducted at various locations throughout the state. *Three credit hours.* MS. FUJIE

**133 American Music** A survey of American music from the time of the Pilgrims to the present, examining the cultivated traditions of art song, symphony, chamber music, and opera; also the vernacular heritage of Gospel hymnody, minstrelsy, ragtime, musical theater, blues, jazz, C & W, R & B, bop, rock, fusion, and more. Forms, techniques, media, and aesthetic elements as fundamentals of peculiarly American styles; society and commerce as shapers of those styles. *Four credit hours.* MR. SCHNEIDER

**151 Music in the Liberal Arts** An exploration of relationships between the art of music and other areas within the liberal arts. Such areas might include physics, mathematics, physiology and psychology, philosophy and aesthetics, the visual arts, anthropology and sociology, language and literature, historical or area studies, theater and dance, and religion. *Three credit hours.* MRS. REUMAN

**153d Introduction to Music Theory** An introductory survey of the main aspects of music theory and practice, including rhythm, intervals, scales and keys, melody, harmony, and form. Some music reading, creative writing, and analytical studies in various styles and periods are included. Primarily for students not intending to major in music. May not be taken for credit in addition to Music 181. *Four credit hours.* MRS. GERBER AND MRS. REUMAN

**173 Introduction to World Music** An introductory survey of ethnomusicological approaches to music of the world. Topics include the study of musical transmis-



sion, performance, and the role of music in culture; examples mainly drawn from East Asia and West Africa, referring to oral and written traditions. *Four credit hours.* MS. FUJIE

**174 European Popular Song Before 1800** The history of European popular song before 1800, including Medieval and Renaissance popular songs, which often arose from everyday events: songs from troubadour and trouvère repertoires, Master- and Minnesinger songs, and English popular songs and carols. *Four credit hours.* MRS. GERBER

**181, 182 Music Theory I, II** Within a sequence of courses designed to present analytical skills for understanding the elements and structure of tonal music, Music Theory I covers skills pertaining to notation, intervals, scales, tonality, and melodic construction. Includes ear training and sight singing. Music Theory II is a continuation of these skills and includes an introduction to four-part writing. Laboratory required in each course: a one-hour ear-training session per week. Primarily for music majors and others with prior training in music. *Prerequisite:* Permission of the instructor. *Four credit hours.* MR. HALLSTROM AND MRS. REUMAN

**191d Applied Music: Individual Study** Instruction in voice and instruments for qualified students. Regular offerings include violin, viola, violoncello, piano, voice, flute, guitar (classical, American traditional, and jazz), organ and harpsichord, and selected brass and woodwind instruments. The student's performance in the course will be evaluated by faculty jury at the end of the semester. For additional information concerning fees, scheduling, and related matters, refer to the applied music statement following Music 499. May be repeated for additional credit. Nongraded. *Prerequisite:* Music 153 or 181 (may be taken concurrently) and permission of the department. *One or two credit hours.* STAFF

**193d Applied Music: Ensemble** Credit for participation in musical ensembles sponsored by the music department. In addition to the Colby Community Symphony Orchestra, the Colby Chorale, the Collegium Musicum (early music ensemble), the Band, Jazz Band, and Chapel Choir, the department will undertake to form small ensemble groups as the need arises. Interested students should consult the department for additional information before registering. May be repeated for additional credit. Nongraded. *Prerequisite:* Music 153 or 181 (may be taken concurrently) and permission of the department. *One credit hour.* STAFF

†[218] **Film and Film Music** The aesthetic and thematic interrelationship of films and the music composed for them, with emphasis on American films. A survey of style, beginning with European-born composers and directors in Hollywood to the present, and an analysis of the structural and expressive relationship between film and film score. Regular screenings of important American films. *Prerequisite:* Music 111 or 153 or 181. *Three credit hours.*

**219j Fifty Years of American Musical Theater** The book, music, and lyrics of ten shows from 1910 (*Naughty Marietta*) to 1960 (*West Side Story*) form the basis of a seminar exploring the distinctions among revue, musical comedy, operetta, and opera; the relationship between music and lyrics, song and play, and the life of a song outside a show; musical theater as satire, agit-prop, pastoral, and romantic comedy. Mass-marketing of sheet music, scores, librettos, and "original cast" recordings; what

is uniquely "American"; readings of plays, reviews, theater history picture-books, "show-biz" biographies, essays; group singing. *Prerequisite*: A course in music, American studies, or performing arts. *Three credit hours*. MR. SCHNEIDER

**\*231d2 Jazz** Jazz between 1900 and 1950: the stylistic development of various subgenres (New Orleans jazz, the blues, stride piano music), analyses of the music of performers and composers (Louis Armstrong, Bessie Smith, Duke Ellington, Charlie Parker), and a study of the roots of rock and roll in urban black popular music. The music itself, as opposed to the sociology of jazz, will be emphasized. *Prerequisite*: Music 111 or 153 or 181. *Three credit hours*. MR. MACHLIN

†[239] **History of Instruments** The development of Western instruments beginning with the aulos and lyre of antiquity and culminating with synthesizers. The influence of specific composers on the development of new instruments or techniques. *Prerequisite*: Music 111 or 153 or 181. *Three credit hours*.

**241 Topics in Music History: Composers Before 1750** The lives and representative works of selected composers before 1750. (Fall 1986: Perotin, Guillaume de Machaut, Josquin Des Prez; Fall 1987: Monteverdi, Bach, Handel.) *Prerequisite*: Music 182. *Four credit hours*. MRS. GERBER

**242 Topics in Music History: Music Literature Before 1750** Representative major genres of music literature in the Western European tradition before 1750. (Spring 1987: Counterpoint and Fugue, Vocal Music—madrigal, cantata, opera; Spring 1988: Chant, Mass, Motet.) *Prerequisite*: Music 241. *Four credit hours*. MRS. GERBER

**274 Popular Music of Japan** A historical overview of Japanese popular music which includes ballad, updated folk song, and rock. Emphasis on influences from traditional musical genres as well as from Western popular music; specific song types linked to social changes in Japanese history. *Prerequisite*: Music 111, 153, 173, 181, or a course in East Asian studies. *Three credit hours*. MS. FUJIE

†[278] **Opera as Theater** A historical study of principles of opera production, with laboratory experience in staging scenes from several periods. *Prerequisite*: Permission of the instructor. *Four credit hours*.

**281, 282 Music Theory III, IV** Music 281 includes further study of harmony and an introduction to chromatic harmony. Music 282 covers postromantic harmony and contemporary techniques, analyzing representative works of twentieth-century composers. Primarily for music majors. *Prerequisite*: Music 182. *Three credit hours*. MR. HALLSTROM

**334d1 Faust in Music** A study of one of the richest literary themes in music, the role of the Faust legend both in various musical genres (song, opera, symphony, and overture) and through the works of several composers (Schubert, Berlioz, Wagner, Liszt, Gounod, Mahler, and others). Enrollment limited. *Prerequisite*: Music 282 or permission of the instructor. *Three credit hours*. MRS. REUMAN

†[335] **Music of Vienna, 1890–1910** An overview of Viennese music at the turn of the century, examining representative works by Strauss, Mahler, Schönberg,

and other significant composers working in Vienna, and focusing on important developments in literature, theater, and art as they relate to the music of these composers. Enrollment limited. *Prerequisite:* Music 282 or permission of the instructor. *Three credit hours.*

[336] **Music Since 1945** The diverse trends in contemporary music and of the non-traditional (and often bewildering) means employed by avant-garde composers to achieve their aesthetic goals. Several individual works of the post-World War II era will be analyzed. Enrollment limited. *Prerequisite:* Music 282 or permission of the instructor. *Three credit hours.*

**341 Topics in Music History: Composers After 1750** The lives and representative works of selected composers after 1750. (Fall 1986: Wagner, Debussy, Stravinsky, Cage and his legacy; Fall 1987: Haydn, Mozart, Beethoven, Schubert.) *Prerequisite:* Music 282. *Four credit hours.* MR. HALLSTROM

**342 Topics in Music History: Music Literature After 1750** Representative major genres of music literature in the Western European tradition after 1750. (Spring 1987: Chamber Music, Symphony, eighteenth and nineteenth centuries; Spring 1988: Vocal Music—opera, choral literature, song—and Piano Literature of the nineteenth and twentieth centuries.) *Prerequisite:* Music 341. *Four credit hours.* MR. SCHNEIDER

†[371] **Composition** Utilization of skills acquired through the study of theory, harmony, and musical analysis in the creation of small and large forms. Individual assignments will be made on the basis of each student's ability, training, and experience. Enrollment limited. *Prerequisite:* Music 182 or permission of the instructor. *Three credit hours.*

[373] **Counterpoint and Fugue** The principles of sixteenth- and eighteenth-century polyphony as exemplified in the works of Palestrina and J. S. Bach. Composition of motets, canons, inventions, and fugues; analyses of representative works of both composers. Enrollment limited. *Prerequisite:* Music 281 or permission of the instructor. *Three credit hours.*

†[374] **Conducting and Score Reading** Basic conducting techniques and their application to stylistic interpretation, designed to develop the student's ability to read a full instrumental or choral score with fluency and insight. In addition to practice in clef reading and transposition, analysis of scores for a variety of ensembles from different eras in music history will be stressed; elements of the analysis will include extraction of the main melodic and harmonic elements from the score for keyboard rendition. Enrollment limited. *Prerequisite:* Music 281 or permission of the instructor. *Three credit hours.*

**491, 492 Independent Study** Individual topics in areas where the student has demonstrated the interest and competence necessary for independent work. Primarily for senior music majors. *Prerequisite:* Permission of the department. *One to four credit hours.* FACULTY

†[493, 494] **Seminar in Music** Topics will change each semester; a complete description will be available before registration. Primarily for senior music majors. *Prerequisite:* Music 282 and permission of the instructor. *Three or four credit hours.*

**499d Music Teaching** Directed practice in conduct of introductory music courses. Open to a limited number of upperclass music majors. Nongraded. *Prerequisite:* Music 282, 342, and permission of the department. *Two credit hours.* FACULTY

**Applied Music** Private lessons in voice and a variety of instruments are available, with or without academic credit. (See Music 191d.) Fees for lessons are waived by the College for declared music majors; for non-majors, a fee of \$210 is charged for each semester of two-credit instruction (i.e., a 50-minute lesson), and a fee of \$126 is charged for one credit of instruction (i.e., a 30-minute lesson). In the case of Music 091j, a fee of \$110 is charged for on-campus instruction. Comparable fees are charged for extracurricular instruction in applied music, which is available during both semesters and in January. Students electing Music 091j or Music 191d, or taking extracurricular instruction, must consult the applied music coordinator (Mrs. Helen Staples); however, individual lessons are scheduled in consultation with the appropriate applied music associate. *Note:* By electing applied music, either Music 091j or 191d, the student incurs a responsibility to pay the appropriate fee in full.

## Performing Arts

*Chairman, PROFESSOR HOWARD KOONCE<sup>1</sup>*

*Professor Koonce<sup>1</sup>; Associate Professor Eric Binnie; Adjunct Associate Professors Stephen Woody, Christine Mitchell-Wentzel, and Richard Sewell*

*ADVISORY COMMITTEE: Professors Mark Benbow (English), Binnie (Performing Arts and English), Patrick Brancaccio (English), Koonce<sup>1</sup> (English and Performing Arts), Paul Machlin (Music), Mitchell-Wentzel (Performing Arts), Sewell (Performing Arts), David Simon (Art), and Woody (Performing Arts)*

The program in the performing arts enlarges existing patterns of academic concentration through credited work in theater, theatrical music, and dance. The program is founded on two premises: first, that performance is essential to a full understanding of the art form; second, that all the arts share significant modes of thought and expression, and that a knowledge of one art form will contribute to an understanding of all the arts. In addition to traditional lecture/discussion courses, the program includes frequent opportunities for practical experience in the theater.

The major in performing arts is a liberal arts, not a pre-professional, major. It is, however, a major which will adequately prepare particularly interested and talented students for graduate study and further involvement with performing groups. It is a structured major which ensures that all students have experience and training in technical theater as well as appearing on stage. It is an interdisciplinary major which relates the study of theater and dance to the study of art, music, and literature. As part of its program, the performing arts major not only recognizes but encourages performing experience and study with approved organizations outside the College through exchange programs with other colleges and universities, internships, and foreign study.

### Requirements for the Major in Performing Arts

*1: Performing Arts 121, 171, 313, 314, and one of the following: 272, 372, 253, 353, or 453.*

*II:* Three courses in art, literature, and music, no more than two of which may be at the 100 level, selected from the following: Art 111, 112, 131, 221, or 232; Classics 232 or English 373 or 374; Music 111, 153, or 181.

Three additional courses chosen from *one* of the following categories: In art: 111, 112, 131, 221, 222, 232, 275, or any period of art history; in literature: Classics 232 Greek Tragedy; English 278 Italian Fiction and Film, English 333 Topics in Renaissance Drama, English 334 Restoration Literature, English 373, 374 The Development of Dramatic Art I, II, English 375 Studies in Pre-Modern Drama, 376 Studies in Modern Drama, English 383, 384 Studies in Shakespeare, English 472 Oral Interpretation; French 272 French Film in English, French 335 Seventeenth-Century French Theater, French 338 French Classical Comedy, French 376 Modern French Drama; German 151 Masterpieces of German Literature; Greek 352 Sophocles, Greek 354 Euripides, Greek 493 Aeschylus; Latin 232 Readings in Terence, Latin 251 Roman Drama, Latin 371 Terence; or in music: 111, 133, 153, 181, 182, 218, 231, 278, 335, or any period course in music history.

*III:* Fifteen credit hours in performing arts as follows: three credit hours in design (Performing Arts 231, 232, or 233); three credit hours in directing or choreography (Performing Arts 212, 311, or 341); and an interdisciplinary senior seminar (Performing Arts 494 or an equivalent course in a cooperating department). Six additional credit hours in performing arts, exclusive of Performing Arts 173.

*IV:* Significant participation in performance (design, direction, acting, dance) in three semesters. Requirement can be met with Performing Arts 291, 292, 293, 294, or Performing Arts 254, 354, 454, or Performing Arts 491, 492.

The point scale for retention of the major applies to all courses offered toward the major. No requirement for the major may be taken pass/fail.

#### **Requirements for the Concentration in Quantitative Analysis**

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491; one course from Computer Science 126, 132, 231, Mathematics 115, 117, 119, 121, 123, Philosophy 152, 258.

<sup>1</sup>Resident director, London Program in Theater and Drama.

#### **031j London Theater and Dance** *Noncredit.* MS. MITCHELL-WENTZEL

**093j Applied Theater** Significant participation in a production during January. Enrollment limited to members of the cast and crew. *Prerequisite:* Permission of the performing arts committee. *Noncredit.* FACULTY

**121d, 121j, 122d Theater Production** An introduction to the art of theater production, showing the interaction of the director, designers, actors, and technicians from the director's concept to the realized production on stage. A general survey of the evolution of theaters and theater productions through history, showing the effects of social, political, economic, religious, and scientific changes on the plays being written and the styles and methods of designing and producing those plays. Laboratory: an introduction to the current methods and materials used in fabricating scenery, properties, lighting, and sound. Students are required to work on one performing arts production during the semester. *Four credit hours (three credit hours in January).* MR. WOODY

#### **131j London Theater and Dance** *One to three credit hours.* MS. MITCHELL-WENTZEL

**[153] Drama in Performance I** Production of a play that will be studied both in its cultural context and as a representative of its kind, emphasizing the interplay between an intellectual command of a text and the problem of presenting a unified idea in actual production. Enrollment limited. See also Performing Arts 254, 354, and 54. *Prerequisite:* All registrants must be members of the cast or crew. *Three credit hours.*

**71d Introduction to Performance** Stage movement and development of characters of selected plays for presentation on stage. Scripts will be selected to offer a variety of roles and for the imaginative scope and challenge they afford. Emphasis will be on dynamics and variety in developing a persona in physical movement, in silence, and in dialogue. Two performances open to an audience will be staged, one at midsemester and one at the final class. *Three credit hours.* FACULTY

**[173] The Audience Experience** An introduction to the performing arts aimed at developing an informed, active audience through an acquaintance with theater and dance, and with the physical and artistic processes that create them. Emphasis on providing a critical and theoretical framework for approaching performance. Requires attendance at all Powder and Wig and performing arts productions, as well as attendance at one production elsewhere. *Three credit hours.*

**12d1 Fundamentals of Stage Managing and Directing** The basic techniques of staging dramatic scripts. *Three credit hours.* MR. SEWELL

**218] Play Writing** Basic problems in writing for the stage. Students will convert brief narratives (from Kafka, Boccaccio, Borges, etc.) into dramatic form to examine challenges of compression, stage (as different from narrative) impact, delineation and development of character, and then write a dramatization or an original play or sequence of scenes. Limited enrollment. *Prerequisite:* One course in the literature of the performing arts, any performing arts course, or permission of the instructor. *Three credit hours.*

**231] Scene Design** The theory and art of scene design, focusing on analysis of the playwright's text to discover and solve the aesthetic and functional problems of achieving a viable design. Projects will include design drawings based on assigned plays. *Prerequisite:* Performing Arts 122 or permission of the instructor. *Three credit hours.*

**232] Stage Lighting** Theory and principles of stage lighting, with special emphasis on translating design ideas to the physical stage. Projects will include sketches and drafted light plots based on assigned plays, operas, musicals, and dance (ballet and modern). Attendance at performing arts and Powder and Wig productions required. *Prerequisite:* Performing Arts 122 or permission of the instructor. *Three credit hours.*

**[233] Stage Costume Design** Line, form, movement, color, characterization, and rendering in stage costume design, in conjunction with appropriate scenographic theory. Whenever practicable, students will be involved in practical theatrical costume-making. *Three credit hours.*

**235 Stage Make-up** The study of stage make-up as a method of enhancing character, illustrating age, defining personalities, and showing social, economic, and psychological attributes of the characters of assigned plays. Research in certain historical periods to determine styles of dress, make-up, hair style, and body adornment for a variety of social/economic levels. *Three or four credit hours.* MR. WOODY

**252 Introduction to the Art of Dance** A survey of dance, the differences among its many forms, its relation to or function within a particular culture. The significant developments of dance as an art form in Western civilization, looking at basic theory, composition, and movement experience. Readings, films, videos, and attendance at live performances. No dance experience necessary. Enrollment limited. *Three credit hours.* MS. MITCHELL-WENTZEL

**253 Dance Repertory I** Advanced applied dance theory. Study and performance of faculty works, commissioned choreography, or period pieces reconstructed from labanotation. Topics change each semester. Enrollment limited. See also Performing Arts 353 and 453. *Prerequisite:* Performing Arts 341, 342 (may be taken concurrently), or permission of the instructor. *Three credit hours.* MS. MITCHELL-WENTZEL

**254j, 254d1 Drama in Performance II** See description for Performing Arts 153. (January 1987: A study of early Shakespearean comedy for the cast and crew of *Love's Labour's Lost*.) *Prerequisite:* All registrants must be members of the cast or crew. *Three or four credit hours.* FACULTY

**272d1 Acting II** Theory and technique of stage performance for those with experience in performance. Scenes and short plays. Admission to course based on the presentation of one three-minute scene, prepared and memorized. Auditions will be held the morning of registration. *Prerequisite:* Performing Arts 171 or permission of the instructor. *Three credit hours.* MR. SEWELL

**274 Voice and Public Speaking** The study and practice of composing and delivering formal speeches, including development of vocal techniques for clear and effective presentation. Enrollment limited. *Prerequisite:* Permission of the instructor and concurrent enrollment in an approved course from any academic discipline. *Two to four credit hours.* MR. KOONCE

**291, 292 Applied Dance** Optional credit for participation in Colby Dancers. May be repeated for additional credit. Enrollment limited. Nongraded. *Prerequisite:* Performing Arts 341, 342 (may be taken concurrently), and permission of the performing arts committee. *One credit hour.* MS. MITCHELL-WENTZEL

**293, 293j, 294 Applied Theater** Optional credit for significant participation in productions, applied workshops, or performances staged in conjunction with classes in directing. May be repeated for additional credit. Enrollment limited. Nongraded. *Prerequisite:* For actors, Performing Arts 272 or 372 (may be taken concurrently); for technicians, Performing Arts 231 or 232 (may be taken concurrently); all students must obtain permission of the performing arts committee. *One credit hour.* FACULTY

**297 Stage Costume Production** Methods and materials used to construct and present stage costumes for theatrical production. The process from research, concep-

tualization, scenographic collaboration, budgeting through creation to costume organization in production. Students required to costume crew actual performances. *Four credit hours.* MR. BINNIE

**298A Repertory for the Twentieth-Century Stage** A reading survey of plays and playwrights that shaped modern theater (1880–1930); the startling range of experiments in the last hundred years, the tug between realism and the many types of the fantastic; expressionist and surrealist. Performance of scenes. *Prerequisite:* Permission of the instructor. *Three credit hours.* MR. SEWELL

**298B Computer Graphics in Theater Design** The use of the computer as a design tool for the scenic designer; primarily using Apple Macintosh and support software available in the computer services library. Analysis of the playwright's text to discover and solve the aesthetic and functional problems of achieving a viable design. Projects include design drawings based on assigned plays; computer graphics may be used as the functional drafting medium and/or as the aesthetic design medium. *Prerequisite:* Performing Arts 122 or 231 and/or permission of the instructor. *Three credit hours.* MR. WOODY

†[311] **Topics in Stage Directing** The special challenges and demands of directing particular kinds of plays and/or plays from particular periods and cultures. Enrollment limited. *Prerequisite:* Performing Arts 173, 212, or participation in at least one faculty-directed production at Colby. *Three credit hours.*

†[313] **Theater History** A historical survey of the theory and practice of staging from the Greek through the modern period, focusing on problems arising from the realization of dramatic texts in conjunction with historical records. *Three credit hours.*

[314] **Studies in Theater History** Detailed study of specific problems in theater history. The focus will change from year to year according to the interests of the students. *Prerequisite:* Performing Arts 313. *Three credit hours.*

**341, 342 Modern Dance Composition and Theory** Theories, philosophies, and development of twentieth-century American contemporary dance through readings, films, and direct movement experience. *Prerequisite:* Performing Arts 252 and permission of the instructor. *Three credit hours.* MS. MITCHELL-WENTZEL

**353 Dance Repertory II** See description for Performing Arts 253. *Prerequisite:* Performing Arts 341, 342 (may be taken concurrently), participation in Colby Dancers, or permission of the instructor. *Three credit hours.* MS. MITCHELL-WENTZEL

**354j, 354d1 Drama in Performance III** See description for Performing Arts 153. (January 1987: A study of early Shakespearean comedy for the cast and crew of a production of *Love's Labour's Lost*.) *Prerequisite:* All registrants must be members of the cast or crew. *Three credit hours.* FACULTY

†[372] **Topics in Acting** The special challenges and demands of acting in particular kinds of plays and/or plays from particular periods or cultures. Brief repertoires may be presented, but the emphasis will be on process rather than production. Enrollment limited. *Prerequisite:* Performing Arts 171 and permission of the instructor. *Three credit hours.*



**453 Dance Repertory III** See description for Performing Arts 253. *Prerequisite:* Performing Arts 341, 342 (may be taken concurrently), participation in Colby Dancers, or permission of the instructor. *Three credit hours.* MS. MITCHELL-WENTZEL

**454j, 454d1 Drama in Performance IV** See description for Performing Arts 153. *Prerequisite:* All registrants must be members of the cast or crew. (January 1987: A study of early Shakespearean comedy for the cast and crew of a production of *Love's Labour's Lost*.) *Three credit hours.* FACULTY

**491, 492 Independent Study** Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY

**[494] Senior Seminar** An interdisciplinary, culminating seminar for performing arts majors. Specific subject matter will be selected for each class to enable designers, directors, dancers, and actors to collaborate in translating the intellectual understanding of the subject into theatrical performance. Enrollment limited. *Prerequisite:* Senior standing as a major in performing arts. *Three credit hours.*

## Philosophy

*In the department of philosophy and religion.*

*Chairman,* PROFESSOR YEAGER HUDSON

*Professors Robert Reuman, Hudson, Robert McArthur<sup>1</sup>, and Thomas Longstaff; Assistant Professors Daniel Cohen, Debra Campbell<sup>2</sup>, Christopher Shields, and Nikky Singh*

"Philosophy," as William James put it, "is an attempt to think without arbitrariness or dogmatism about the fundamental issues." One of the core disciplines of the liberal arts, philosophy provides a unique perspective on human and social problems. As a critical and an integrative discipline, it collects the questions that arise from the basic principles of all areas of knowledge. Our program features a sequence of courses dealing with both Western and Eastern intellectual and philosophical history, as well as courses treating the major philosophical issues.

### **Requirements for the Major in Philosophy**

Philosophy 152, 211, 331, 332, 353, and 12 additional hours in philosophy, only six of which may be in 100-level courses.

### **Requirements for the Major in Philosophy and Religion**

Religion 211, 212, 233, 234, 316; Philosophy 152, 211, 331, 332, 372, 373.

For each of the above majors, at least one independent study project of at least three credit hours (philosophy or religion) must be taken in January or one of the semesters of the junior or senior year, in addition to the requirements specified above.

A maximum of two courses, not to include any specifically prescribed courses, may be taken on a pass/fail basis in partial fulfillment of the requirements for the above majors. No specifically prescribed course may be taken on a pass/fail basis to satisfy major requirements. The point scale for retention of each of the above majors applies to all other courses that count toward the major.

### **Requirements for the Major in Philosophy-Mathematics**

In philosophy: 152 and either 111 or 211; 258, 331, 332, and 353.

In mathematics: at least 18 credit hours, including 222, 253, 361.

Physics 141, 142 is recommended for the major.

At least one independent study project in mathematics or philosophy, of at least one credit hour, must be taken in January or one of the semesters.

**Requirements for the Concentration in Quantitative Analysis**

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 1, 491; one course from Computer Science 126, 132, 231, Mathematics 115, 117, 119, 121, 123, Philosophy 258.

Attention is called to the interdepartmental major in classics-philosophy (see list of requirements under "Classics"), and to the interdisciplinary major in human development.

resident director, Colby in Cork, full year.

On leave second semester.

**11 Central Philosophical Issues: Self and Society** An introduction to philosophy by a consideration of two of its central branches: social and political philosophy and ethics. Some of the issues addressed are: the nature of political power, individual rights, the good society, the nature of morality, and whether there are moral absolutes. These issues are approached through readings from several of the great philosophers of the West, such as Plato, Aristotle, Locke, Rousseau, and Mill. *Four credit hours.* MR. SHIELDS

**13d2 Central Philosophical Issues: Philosophical Anthropology** An introduction to philosophy through a comparative study of theories about the nature and destiny of man. Readings from great philosophers, scientists, and literary figures such as Plato, Rousseau, Skinner, Freud, the Sociobiologists, Sartre, Camus, and Tillich. *Four credit hours.* MR. HUDSON

**14d Central Philosophical Issues: Nature and God** An introduction to philosophy by a consideration of three of its central issues: knowledge, reality, and God. Some questions addressed are: how can we obtain knowledge, can we achieve certainty, how can we distinguish between appearance and reality, is it reasonable to believe in God, and how can evil be explained? These issues are approached through readings from several of the great philosophers of the West, such as Descartes, Berkeley, Hume, Aquinas, and Tillich. *Four credit hours.* MR. HUDSON AND MR. SHIELDS

**16] Central Philosophical Issues: The Good Life** An introduction to philosophy through an exploration of the theme of the good life in works of philosophy and imaginative literature. Such authors as Plato, Thoreau, Tolstoy, and Arthur Miller will be read. *Four credit hours.*

**18] Central Philosophical Issues: Philosophy of Law** An introduction to philosophy by a consideration of the interrelations between law, philosophy, and logic. Topics will include the nature and foundation of legal systems, the relation of law to morality, the limits of law, punishment, justice, and legal reasoning. *Four credit hours.*

**35j] Puzzles and Paradoxes** A probing plunge into philosophical perplexities, such as rational irrationality, dilemmas of decision, riddles of induction, and prior announcement of surprises. *Two credit hours.*

[137j] **Philosophy of Art** The nature of art and the basis of our judgments about art. Concepts of imitation, expression, form, institution, aesthetic attitude, and objective reasons as they relate to the arts. *Two credit hours.*

**152d Logic** The techniques of formal reasoning in a symbolic context, and their application to argumentation in natural language. *Three credit hours.* MR. COHEN

†[153] **Nonviolence** Readings and discussion will focus on the following areas: theoretical considerations and definitions, the nature and advocates of violence, aggression, civil disobedience, Satyagraha, nonviolence and violence in American race relations, violence in American society, international conflict, and conflict resolution. *Three credit hours.*

[173] **Evil in Literature and Philosophy** How can the world, with its pervasive suffering and wickedness, be the creation of one who is all-knowing, all-powerful, and perfectly good? This course examines the problem of evil, and examines and criticizes theodicies—proposed answers to this question. Thinkers such as Plato, Augustine, Leibniz, Milton, Voltaire, and Dostoevsky will be studied. *Three credit hours.*

**211 Moral Philosophy** Consideration of various philosophical theories about the bases of judgment on questions of good and bad, right and wrong, with lesser attention to the application of ethical principles to problem cases. *Three or four credit hours.* MR. REUMAN

**212 Greek Ethics** Ancient Greek philosophers, dramatists, and historians were concerned with questions about the justification of moral conduct and character and the possibility of objective or absolute foundations for morality. The course will address these questions in the thought of such authors as Homer, Hesiod, Sophocles, Euripides, various Sophists, Plato, Aristotle, Epicurus, and some later Hellenistic skeptics. *Three credit hours.* MR. SHIELDS

**219j Philosophy and Literature** For centuries philosophers, novelists, and playwrights have grappled with the question: Is the moral status of an action determined by the amount of happiness, pleasure, welfare, etc., it is likely to produce or by its conformity to some fundamental moral rule (conformity which itself need not bring about happiness)? The course will examine competing responses to this question as advanced by Sophocles, Eliot, Greene, Mill, and Kant. *Three credit hours.* MR. SHIELDS

[234] **History of Science** A survey of the growth of scientific theories from the Aristotelian-Ptolemaic world view through Newton's mechanical philosophy and Darwin's theory of evolution. *Three credit hours.*

†[236] **Social Philosophy** Readings from Plato, Locke, Rousseau, Marx, and others; their relevance to contemporary problems. *Three or four credit hours.*

**252 American Philosophy** American philosophical thought from the colonial period to the early twentieth century. Thinkers treated include Edwards, Emerson, Thoreau, Peirce, James, and Dewey. Formerly listed as Philosophy 352. *Three credit hours.* MR. HUDSON

- [255] **Indian Thought** Types of Indian philosophy of the ancient period. Formerly listed as Philosophy 355. *Three credit hours.*
- †[256] **Indian Thought** The development of Indian philosophy and intellectual history from the beginning of the Indian Renaissance in the late eighteenth century to the present. Readings from such thinkers as Gandhi, Tagore, Ramakrishna, Vivekananda, and Radhakrishnan. Formerly listed as Philosophy 356. *Three credit hours.*
- 258d1 **Intermediate Logic** The formal semantics of symbolic logic and its extensions, metatheoretic results such as soundness and completeness, the nature and limits of the axiomatic method, and philosophical problems concerning the nature of logical truth. *Prerequisite:* Philosophy 152 or permission of the instructor. *Three credit hours.* MR. COHEN
- [277, 278] **Philosophical Perspectives** Interdisciplinary considerations of various topics, involving lecturers from several departments. *Three credit hours.*
- [293] **Seminar on Socrates** The character, teaching, and influence of Socrates, using Plato's Socratic dialogues, Xenophon, Aristophanes, and modern critical interpretations. *Three credit hours.*
- [294] **Seminar on Aristotle's Ethics** The nature and modern relevance of Aristotelian ethics, using Aristotle's own ethical writings and modern critical interpretations. *Three credit hours.*
- [297] **Theory of Knowledge** The nature and limits of human knowledge. Concepts of belief, knowledge, and justification. Problems of perception, induction, and necessary truth. *Three credit hours.*
- [298] **Applied Ethics** The interrelationship between moral principles and problem cases as a way of clarifying both theoretical concepts and practical policies. Emphasis on the problem cases themselves, including issues such as abortion, euthanasia, civil disobedience, affirmative action, experimentation, genetic intervention, and famine. *Prerequisite:* Philosophy 211 or permission of the instructor. *Three credit hours.*
- [316] **Metaphysics** A study of classical Aristotelian metaphysics developed into modern times and its use as a perspective on modern metaphysical views such as existentialism and essentialism and also on such topics as the scope and grasp of being and its modes, the analogical method and fundamental principles of metaphysics, possibility and actuality, contingency and necessity, substance and accident, and causation and freedom. *Prerequisite:* One course in philosophy or permission of the instructor. *Three or four credit hours.*
- †[317] **Philosophy of Science and Mathematics** How are mathematical truths known? What is the status of a scientific theory? Problems concerning inductive logic, observation, laws, theory construction, and scientific explanation will be considered. *Three credit hours.*

†[318] **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** Comparative study of the philosophical systems of Plato and Aristotle, with secondary attention to the pre-Socratics, Socrates, Epicurus, the Stoics, and Plotinus. *Four credit hours.* MR. SHIELDS

**332 History of Modern Philosophy** European philosophy from Descartes to the nineteenth century, with special attention to the works of Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant. *Four credit hours.* MR. REUMAN

**333 Philosophy of Education** A study of positions of the major philosophers from Plato to Dewey concerning education. Considers how thought on issues such as the nature of man, our conception of the ideal society, and our vision of the good life affects beliefs and practices concerning education. *Three or four credit hours.* HUDSON

**353 Contemporary Analytic Philosophy** The twentieth-century analytic tradition in philosophy. A study of Wittgenstein, the Vienna Circle, Quine, and several more recent figures with an emphasis on metaphilosophy: What is philosophy and how should it be done? *Three credit hours.* MR. COHEN

†[359] **Nineteenth-Century Philosophy** Post-Kantian thinkers such as Hegel, Marx, Kierkegaard, Schopenhauer, Nietzsche, and Bergson. Special attention to the revolt against reason, evolution, and alienation. *Prerequisite:* Philosophy 332 or permission of the instructor. *Four credit hours.*

†[372] **Philosophy of Religion** Some of the principal philosophical problems concerning the nature and justification of religious belief and experience, problems such as the nature of God, arguments for the existence of God, the problem of evil, mysticism, and the relation of faith and reason. *Prerequisite:* One course in philosophy or religion, or permission of the instructor. *Three or four credit hours.*

†[373] **History of Medieval Philosophy** 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. *Prerequisite:* Philosophy 331. *Three or four credit hours.*

**374d1 Existentialism and Phenomenology** A survey of the principal thinkers of existential philosophy, with minor attention to phenomenology. Readings from such philosophers as Kierkegaard, Nietzsche, Jaspers, Heidegger, Sartre, Buber, and Husserl. Philosophy 359 is a desirable background but is not required. *Prerequisite:* One course in philosophy or permission of the instructor. *Four credit hours.* MR. REUMAN

†[391, 392] **Philosophy Seminar** Seminars in selected areas of philosophy. *Three credit hours.*

**[398] Philosophy of Mind** Traditional and contemporary theories of mind, including various forms of dualism, materialism, and causal theories. Discussion of the problem of personal identity will provide new perspectives on these theories. The questions of whether machines can think, and whether investigations into artificial intelligence can help us understand our own minds will also be discussed. *Three credit hours.*

**491, 492 Independent Study** Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY

## Physical Education

*Chairman, ADJUNCT ASSOCIATE PROFESSOR RICHARD WHITMORE*

*Associate Professor Richard McGee; Adjunct Associate Professors Carl Nelson, Whitmore, and Tom Austin; Adjunct Assistant Professors James Wescott, Gene DeLorenzo, Michel Goulet, Deborah Pluck, Chris Raymond, Debra Aitken, and Robert Pfeiffer<sup>1</sup>; Adjunct Instructors Robert MacDonald, Scott Laughinghouse, and Kevin Naughton*

The department of physical education and athletics offers required and voluntary physical education classes, intramural sports, intercollegiate athletics (varsity and junior varsity), and informal recreational activities.

Physical Education 1, 2: two semesters of physical education are required of all Colby students for graduation. Waivers are available for members of varsity or junior varsity teams.

A program of instruction in a wide variety of activities is offered on a coeducational basis. Activities presently in the program are *aquatics*: swimming, life saving, water-safety instructors' course, canoeing, scuba; *leisure-time sports*: tennis, racquetball, golf, squash, skating, figure skating, bicycling, skiing, cross-country skiing, badminton, riding; *dance*: modern, ballet; *team sports*: volleyball; *other activities*: yoga, conditioning, hiking, karate, aerobics, weight training.

<sup>1</sup>Joint appointment with education department.

**Physical Education Activities** Activity courses may be taken to fulfill the physical education requirement or as electives. Most activities last one season (one-half semester). Exceptions are so noted on transcripts and in materials available from the physical education department. Registration is made through the physical education department. *Noncredit.*

**111j Lifetime Physical Fitness: Exercise Physiology** A study of the adaptations and physiological mechanisms involved in man's response to exercise. Particular attention to the circulatory, respiratory, metabolic, and nervous adjustments that must be made with increased levels of physical activity. Also, the influence of environmental factors, the role of diet, physical fitness, training, age, sex, and body composition; the instruments and procedures used in gathering data on the physiology of exercise. *Two credit hours.* MR. MCGEE

**113j Sport and Society** Sport is a phenomenon in our society that has not been given equal time, in terms of study, with other institutions in our society. Many of the

current issues in sport and in athletes' lives have made a major impact on our society. A focus on the relationship between sport and society, group behavior and interaction patterns within sport settings at all levels of involvement, cultural, socio-structural, and situational factors affecting the nature or dynamics of sport and sport experience. *Two credit hours.* MR. MCGEE

## Physics

*In the department of physics and astronomy.*

*Chairman, PROFESSOR ROGER METZ*

*Professors Metz and John Dudley; Associate Professor Murray Campbell; Assistant Professor Ross Reynolds*

The department seeks to train students to think analytically in terms of the fundamental principles of physics. Subject matter in introductory courses is selected to illustrate basic laws with wide applicability and to help prepare students to enter professions such as medicine, law, teaching, and business. Advanced course offerings provide excellent background for graduate study in physics, astronomy, engineering, and computer science. Special emphasis is placed upon independent work and cooperative research with the faculty, using the department's machine, electronic, and technical shops, as well as both campus and departmental computers. Space physics, x-ray spectroscopy, and infrared astronomy are areas of current research interest in the department.

### **Requirements for the Major in Physics**

Twenty-eight credit hours in physics, including 141, 142 (or 121, 122), 211, 232, 321, 334; Mathematics 121, 122, 222 (or 123, 124), and 253. At least one January Program is required to be completed in physics or a closely related field. If possible, Mathematics 121 and 122 (or 123, 124) should be taken in the freshman year.

Students planning on graduate work in engineering or a physics-related science should elect at least 12 additional hours of physics, including 151 and 322, and six additional hours of mathematics, including 311. Attention is drawn to the three-two program in engineering, in which both a bachelor of arts and a bachelor of science degree can be earned upon successful completion of three years at Colby and two years in engineering at either Case-Western Reserve University or the University of Rochester.

In the second semester of the junior year, students who will have completed Physics 151, 322, Mathematics 311, and all courses specifically required for the major by the end of the junior year may apply for admission to the honors program. Successful applicants will be expected to complete, by the end of the senior year, Physics 441; Physics 331 or 332 or 336; and an additional mathematics course numbered above the 100 level. An experimental or theoretical thesis to be defended in the spring of the senior year is required. Successful completion of the honors program will result in the degree being awarded "With Honors in Physics." A thesis completed as part of the Senior Scholars Program may be substituted for the honors thesis. Attention is drawn to this program particularly for students planning graduate work in physics or astronomy.

Students seeking advanced standing in physics should consult the chairman of the department before electing courses. Students interested in pre-college level teaching careers should consult the education department.

The point scale for retention of the major applies to all courses taken in physics and mathematics. No requirements for the major may be taken pass/fail.

### Requirements for the Concentration in Applied Mathematics

Computer Science 125; Quantitative Analysis 491; three courses in computer science or in mathematics (numbered 300 or above).

**112 Energy and the Environment** Principles and practice of energy generation, transformation and degradation, and the effects of the use of energy in the environment. Emphasis on scientific understanding of current problems in energy, rather than economic or political implications. Lecture and laboratory. May not be taken for credit if student has earned credit for Physics 121 or 141. Enrollment limited. *Four credit hours.* MR. DUDLEY

**121, 122 General Physics** A quantitative introduction to the interpretation of theoretical and experimental problems in the fields of mechanics, thermodynamics, electricity and magnetism, optics, relativity, and quantum physics. Physics 211 may serve as a prerequisite for Physics 122. Lecture, laboratory, and discussion. *Prerequisite:* High school mathematics through trigonometry. *Four credit hours.* MR. REYNOLDS

**141, 142 General Physics** Coverage and format identical to that of Physics 121, 122, but lectures are calculus-based. *Prerequisite:* For 141: Mathematics 121 (or 123); for 142: Mathematics 122 (or 124). *Four credit hours.* MR. METZ

**151j Project in Physics** Individual or group work in experimental or theoretical physics. *Prerequisite:* Permission of the instructor. *Two or three credit hours.* FACULTY

**153 Essential Electronics** An introduction to modern electronics emphasizing laboratory work and including theory, problem solving, and circuit design. From simple, direct-current devices to digital integrated circuits, microcomputer instrumentation, and analog signal processing. Enrollment limited. *Four credit hours.* MR. REYNOLDS

**171j Data Analysis** An introduction to treatment of physical data: dimensional analysis, approximations, analysis of uncertainty, elementary statistics, least-squares techniques, and methods of computer programming in FORTRAN. *Three credit hours.* INSTRUCTOR

**211 Mechanics** Theory of classical mechanics: Newton's laws, oscillatory motion, noninertial reference systems, classical gravitation, motion of rigid bodies, and Lagrangian mechanics. Lecture and discussion. *Prerequisite:* Physics 121 or 141; Mathematics 122 or equivalent. Open to well-prepared freshmen (normally those with advanced placement in physics and mathematics) with permission of the instructor. *Four credit hours.* MR. DUDLEY

**232 Atomic Physics** An intermediate treatment of the quantum physics of atoms, including atomic models, Schrodinger theory, atomic spectra, and electron spin. Emphasis is placed on the experimental evidence for modern atomic theory. *Prerequisite:* Physics 122 or 142 and Mathematics 222 or 124 (may be taken concurrently). *Four credit hours.* MR. METZ



**251d Independent Electronics** An independent, self-paced course in electronics. May be taken as a sequel to Physics 153 for the further study of digital electronics and computer circuits. Enrollment limited. *One or two credit hours.* MR. METZ

†[291j] **Research and Seminar in Physics and Astronomy** Individual or small-group work in one of several areas; development of laboratory apparatus, development of astronomical equipment, analysis of infrared astronomical data, or literature review of topics in physics or astronomy. Each student will present a written report and seminar midway through January, and at the conclusion of the work. *Prerequisite:* Permission of the instructor. *Two or three credit hours.*

**321, 322 Electricity and Magnetism** First semester: a theoretical treatment of electrostatics and magnetostatics in vacuum and material media through Maxwell's equations. Second semester: a.c. circuits, electromagnetic radiation, relativity, Hamiltonian mechanics, and applications. Lecture and discussion. *Prerequisite:* Physics 122 or 142 and Mathematics 222 or 124 or permission of the instructor. *Four credit hours.* MR. CAMPBELL AND MR. DUDLEY

**331 Nuclear Physics** A continuation of Physics 232, treating the physics of many-electron atoms and of nuclei; includes quantum statistics, nuclear models and reactions, and elementary particles. *Prerequisite:* Physics 232 or permission of the instructor. *Three credit hours.* MR. DUDLEY

**332 Thermodynamics** Concepts of temperature, energy, entropy, heat, and work, and their thermodynamic relations as developed from a microscopic point of view. Single and multicomponent systems are discussed, using both classical and quantum statistics. Lecture and discussion. *Prerequisite:* Physics 211, 232, and Mathematics 222 (or 124) (may be taken concurrently), or permission of the instructor. *Four credit hours.* MR. CAMPBELL

**334 Experimental Physics** Experimental work in classical and modern physics: fundamental physical constants, mechanics, radioactivity, diffraction, and atomic and nuclear spectroscopy. *Prerequisite:* Physics 211, 232. *Three credit hours.* FACULTY

†[336] **Solid-state Physics** An introduction to solid-state physics, beginning with a study of crystal forms and diffraction of x-rays. Thermal, optical, acoustical, and electrical properties of solids; the energy-band theory of semiconductors as applied to simple solid-state devices; superconductivity. *Prerequisite:* Physics 232, 321, or permission of the instructor. *Four credit hours.*

**351, 352 Tutorial in Physics or Astronomy** Individual work for juniors or seniors on a subject of joint interest to the student and the instructor, involving close supervision, regular tutorial meetings, and active participation by both student and instructor. Topics in the past have included general relativity, nuclear reactors, fluid mechanics, and topics in astronomy. *Prerequisite:* Permission of the instructor. *Two to four credit hours.* FACULTY

**441, 442 Quantum Physics** First semester: an introduction to the mathematical formulations of nonrelativistic quantum mechanics, including Schroedinger wave mechanics, operator algebra, perturbation techniques, and electron spin. Applications to one-dimensional and simple three-dimensional systems are developed. Sec-

ond semester: a continuation of the first semester, with applications as interests dictate. Lecture. *Prerequisite:* Physics 232 or permission of the instructor. *Three credit hours.* MR. METZ

**491, 492 Independent Study** Individual topics in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *One to five credit hours.* FACULTY

## Portuguese

*In the department of modern foreign languages.*

†[261, 262] **Portuguese as a Second Romance Language** The spoken and written language of Portugal and Brazil, utilizing previous knowledge of a Romance language. Extensive use is made of taped materials. *Prerequisite:* Successful completion of intermediate French, Spanish, or Italian, or indication of equivalent proficiency. *Four credit hours.*

## Psychology

*Chairman,* PROFESSOR NICHOLAS ROHRMAN

*Professor Rohrman; Associate Professors Dorin Zohner, Lewis Lester, Diane Kierstead, and Edward Yeterian*

The psychology department seeks to fulfill three objectives. First, to prepare students for graduate work in psychology and ultimately for professional careers as teachers, researchers, and practitioners. Second, to prepare students majoring in psychology to enter the business or professional community with a solid background in knowledge of human behavior and its determinants. Third, to provide service courses for students majoring in other fields for whom psychological knowledge may be useful. Laboratories are equipped to conduct a fairly wide range of studies in human sensory, perceptual, and memory phenomena and include animal facilities and surgery for physiological and comparative research. The laboratory for social, clinical, and developmental psychology is equipped with closed-circuit video for unobtrusive observation and data are recorded on VCRs in the data center. Auxiliary portable video equipment is available for use in other laboratories and in the field. The department also maintains electronic and wood shops for the construction of unique apparatus. Six small research laboratories are dedicated for use by advanced students. The data center is equipped with micro-computers as well as mainframe access in addition to housing the video monitoring station.

The department stresses the scientific approach to the study of human behavior and requires a fairly extensive set of quantitative and experimental courses for all majors. Students are encouraged to conduct their own research. In the last five years, Colby psychology students have presented numerous papers at professional meetings, and have won the majority of prizes for undergraduate-paper excellence given by the Maine Psychological Association at its annual scientific meeting.

### **Requirements for the Major in Psychology**

Psychology 111, 214, 215, 479; either 239 or 255; at least one course from 236, 272, 273; at least one course from 231, 232, 238; two additional psychology courses. One year of laboratory science is recommended.

Candidates for distinction in the major and honors in psychology must submit a score on the Psychology Advanced Test of the Graduate Record Examination.

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

#### **Requirements for the Concentration in Quantitative Analysis**

Computer Science 125; Psychology 371; Quantitative Analysis 111, 491; Mathematics 112, 231, 241, or 381. All requirements for the concentration must be met in conventionally graded courses.

Attention is also called to the interdisciplinary major in human development.

#### **Requirements for Honors in Psychology**

Students seeking to participate in the honors program must make formal application to the department prior to enrolling in Psychology 393d. In addition to fulfilling the basic requirements for the psychology major, the honors program requires that students take one course in psychology numbered above 300 and complete the honors research sequence (Psychology 393d and 493d). Upon successful completion of these requirements and upon vote of the department, the student will be awarded his or her degree "With Honors in Psychology."

Attention is also called to the Senior Scholars program.

**-95j Internship** Augusta Mental Health Institute internship program. Following two weeks of intensive classroom work on campus, students will reside at AMHI and work in various treatment settings. During the two-week field placement, students will have an opportunity to observe therapeutic activities, participate in staff conferences, attend grand rounds, etc. Room and board will be provided by AMHI during the field placement. Enrollment limited. Nongraded. *Prerequisite:* Permission of the instructor. *Three credit hours.* INSTRUCTOR

**111d Introduction to Psychology** An overview of contemporary psychology, introducing concepts and methods current in the field. Participation as a subject in psychological research is required. *Four credit hours.* FACULTY

**214d Research Methods** Discussion of techniques used in conducting behavioral research. Includes literature survey, hypothesis formulation, control techniques, and research design, as well as descriptive and inferential statistics. *Prerequisite:* Psychology 111 or permission of the instructor. *Four credit hours.* MS. KIERSTEAD AND MR. LESTER

**215d, 215j Psychological Research** Each student will conduct a research project planned in Psychology 214, utilizing skills in experimental design, data analysis, and research report preparation acquired in that course. Ordinarily taken in the semester subsequent to Psychology 214. *Two credit hours.* MR. LESTER AND MS. KIERSTEAD

**217j Sex Differences in Human Behavior** A study of the ways in which female and male behaviors differ. Consideration will be given to sex differences in physiology, perception, cognition, language, development, personality, psychopathology, and social-psychological contexts. *Prerequisite:* Psychology 111. *Three credit hours.* MS. KIERSTEAD

†[219] **Human Factors: Aviation Psychology** An introduction to the study of human behavior in relation to non-human systems. The rapidly growing specialty area of aviation psychology provides a context for the application of psychological theory and behavioral research. *Prerequisite:* Psychology 111. *Four credit hours.*

**231j Conditioning and Instrumental Learning** A comparative examination of Pavlovian, instrumental, and operant theories of learning and their application to animal and human behavior. Includes historical antecedents and current issues. Lecture and laboratory. *Prerequisite:* Psychology 111. *Three credit hours.* INSTRUCTOR

**232 Cognitive Psychology** The human information-processing system: how stimulus information is transformed, stored, retrieved, and used. Lecture and laboratory. *Prerequisite:* Psychology 111. *Four credit hours.* MR. ROHRMAN

**236 Comparative Psychology** An examination of animal and human behavior, with emphasis on similarities and differences between species. Includes history of the discipline, behavioral description and categorization, genetic and environmental determinants, ontogeny, physiological mechanisms, evolution, and learning. *Prerequisite:* Psychology 111. *Four credit hours.* MR. YETERIAN

†[238] **Psychology of Language** Selected topics in psycholinguistics, language and thought, the role of linguistic entities in psychological processes, propaganda and persuasion. Will normally include an independent project. *Prerequisite:* Psychology 111. *Four credit hours.*

**239 Personality and Social Psychology** A study of the intrapersonal and situational determinants of behavior, with a consideration of major theories and current research. Psychodynamic, behavioristic, humanistic, and cognitive approaches to the psychology of personality. Topics include attitudes, social perception, attribution, and interpersonal and group processes. *Prerequisite:* Psychology 111. *Four credit hours.* MR. LESTER

**254 Abnormal Psychology** A study of the etiology, diagnosis, and treatment of mental disorders, with emphasis on clinical syndromes, theoretical conceptualizations, and current research. Students will participate in related field activities. *Prerequisite:* Psychology 239. *Four credit hours.* MR. LESTER

**255 Child Development** Principles of psychological development from conception through preadolescence, from a biological, sociocultural, and psychodynamic perspective. For related practica courses, see Education 253, 254. *Prerequisite:* Psychology 111. *Four credit hours.* MR. ZOHNER

**256 Adolescent and Adult Development** Principles of psychological development from adolescence through senescence. Emphasis will be placed on the individual's typical attempts to cope with changes in physical structure, social roles, and personal identity. For related practica courses, see Education 353, 354. *Prerequisite:* Psychology 255. *Four credit hours.* MR. ZOHNER

**258 Educational Psychology** Psychological principles applied to problems of education. Principles of developmental psychology, educational testing and measure-

ment, child and adolescent problems, and pathology. *Prerequisite:* Psychology 111. *Three credit hours.* MR. ZOHNER

**272 Physiological Psychology** The study of neural mechanisms underlying mental processes and behavior, including the ways in which the nervous system subserves sensory coding and perception, movement, motivation, emotion, consciousness, learning, and memory. Includes historical antecedents and integration of animal experimental and human clinical data. Enrollment limited for laboratory component, and permission of the instructor is required. *Prerequisite:* Psychology 111 or permission of the instructor. *Four credit hours.* MR. YETERIAN

**273 Sensation and Perception** The major human senses (vision, audition, somesthesia, taste, smell) studied as physiological systems and as intermediaries between the physical and perceived environments. *Prerequisite:* Psychology 111 or permission of the instructor. *Four credit hours.* MS. KIERSTEAD

**275d2 Applied Psychology** A survey of the major non-clinical applications of psychology, including such content areas as industrial and organizational psychology, consumer behavior, forensic, environmental, and medical psychology. *Prerequisite:* Psychology 111. *Four credit hours.* MR. ROHRMAN

**352 Psychology of Exceptional Children** The origins and implications of cognitive, sensory, emotional, and physical handicaps for development will be explored and discussed. Models for intervention and/or remediation at each age level and their developmental outcomes will be examined. *Prerequisite:* Psychology 255. *Four credit hours.* MR. ZOHNER

**354d1 Clinical Psychology** An in-depth exploration of selected topics in personality; abnormal and clinical psychology, including psychological measurement, testing, and assessment. *Prerequisite:* Psychology 111, 254. *Four credit hours.* MR. LESTER

**371j Advanced Experimental Psychology** Experimental design and the application of inferential statistics. Strongly recommended for those students interested in graduate school. *Prerequisite:* Psychology 214, 215, and permission of the instructor. *Three credit hours.* MR. ZOHNER

†[375] **Neuroscience Seminar** In-depth examination of current issues in physiological psychology and human neuropsychology. Topics include hemispheric specialization, sex differences in the nervous system, neural substrates of learning and memory, physiological bases of behavior disorders, drugs and behavior, psychosurgery, and brain tissue transplants. Includes integration of animal experimental and human clinical data. *Prerequisite:* Psychology 272 or permission of the instructor. *Four credit hours.*

[376] **Seminar in Vision** A detailed examination of the characteristics of the human visual system. *Prerequisite:* Psychology 273 and permission of the instructor. *Four credit hours.*

**377 Human Neuropsychology** The neural bases of abnormal human behavior and cognition, with integration of data from clinical neuropsychology and behavioral

neurology. Topics include brain imaging technologies; neuropsychological evaluation; brain dysfunction and mental illness; drugs, neurotransmitters, and behavior; developmental disorders (e.g., autism); dementias and memory disorders (e.g., Alzheimer's disease); degenerative disorders (e.g., Parkinson's disease and multiple sclerosis); seizures; traumatic brain injury; disorders of communication; and emotional-motivational dysfunction. Emphasis is given to the way in which disorders of the nervous system aid in understanding normal psychological processes. *Prerequisite:* Psychology 272. *Four credit hours.* MR. YETERIAN

**393d Honors Research I** Individual and group meetings of students and faculty participating in the psychology honors program. Under faculty supervision, students will prepare a proposal and begin work on an independent research project to be completed in Psychology 493d. Enrollment limited. *Prerequisite:* Standing as a junior or senior major in psychology and permission of the department. *Three credit hours.* FACULTY

**479 History and Systems of Psychology** The historical background of modern psychology and the development of such systematic viewpoints as behaviorism, Gestalt psychology, and psychoanalysis. *Prerequisite:* Senior standing as a psychology major or permission of the instructor. *Four credit hours.* MR. ROHRMAN

**491, 492 Independent Study** Individual projects in areas in which the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the department. *One to four credit hours.* FACULTY

**493d Honors Research II** Individual and group meetings of students and faculty participating in the psychology honors program. Under faculty supervision, each student will complete the independent research project begun in Psychology 393d, prepare a paper of publishable quality, and make a formal presentation of the work. Enrollment limited. *Prerequisite:* Psychology 393d, standing as a senior major in psychology, and permission of the department. *Three credit hours.* FACULTY

## Public Policy

*Director,* PROFESSOR JAMES MEEHAN

*ADVISORY COMMITTEE:* Professors Anthony Corrado (*Government*), Calvin Mackenzie (*Government*), Sandy Maisel<sup>1</sup> (*Government*), Meehan (*Economics*), Robert Reuman (*Philosophy*), Sonya Rose (*Sociology*), and Thomas Tietenberg (*Economics*)

The public policy program is an interdisciplinary concentration that builds upon foundations of economics and government to enable students to engage in thoughtful and sophisticated analysis of important public policy issues. The public policy concentration, available in the economics and government majors, is designed to develop in Colby students the ability to apply the methodologies and accumulated knowledge of several disciplines to complex public problems through a combination of classroom, independent research, and work experiences.

### Requirements for the Concentration in Public Policy

It is anticipated that all requirements listed below, with the exception of the senior seminar, will be completed before the beginning of the senior year.

(1) **Method courses**, to examine the major approaches to, and techniques for, the study of policy issues. The following courses are required:

*Economics*: 223 Microeconomic Theory.

*Philosophy*: 211 Moral Philosophy.

One course selected from the following:

*Economics*: 393 Econometrics.

*Government*: 219 Quantitative Analysis.

*Mathematics*: 231 Elementary Statistics and Regression Analysis.

(2) **Process courses**, to explore the processes by which public policies are designed, enacted, and implemented. The following courses are required:

*Government*: 317 The Policymaking Process.

At least one course each in economics and government selected from the following:  
*Economics*: 312 Topics in Law and Economics; 332 Regulated Industries; 351 Public Finance.

*Government*: 273 The American Congress; 275j The Committee System in the U.S. Congress; 276 The American Presidency; 313, 314 American Constitutional Law I, II; 392 The Administrative Process.

(3) **Practical applications**. During the junior year, each student will complete an internship and, in consultation with program directors, will select a substantive policy area to serve as the focus for the senior research project. The internship may be undertaken during January, the summer, or an academic semester, and will culminate with a short research paper analyzing the issues to which the student was exposed.

(4) **The senior seminar**. Public Policy 493, required during the senior year, provides for independent, multidisciplinary student research. Each student is required to conduct an original analysis of some public policy issue.

<sup>1</sup>On leave first semester.

**493 Public Policy Seminar** Students will design and conduct an original research project on a local, state, or national public policy issue. Required of economics and government majors with concentration in public policy; open to other government and economics majors on a space-available basis. *Three credit hours.*

MR. TIETENBERG

## Quantitative Analysis/ Applied Mathematics

*Director*, ASSISTANT PROFESSOR DALE SKRIEN

ADVISORY COMMITTEE: *Professors Charles Grim (Economics), Homer Hayslett (Mathematics), Lewis Lester (Psychology), Leonard Reich (Administrative Science), Skrien (Mathematics), and John Sweny (English)*

Because a significant portion of the world today is technically oriented, and quantitative arguments are being used in many areas of study, all liberally educated students should have at least minimum competency in quantitative reasoning. As a result, a quantitative analysis/applied mathematics program has been developed through a grant from the Sloan Foundation's New Liberal Arts Program and is included in the College's curriculum for the first time in 1986-87. The applied mathematics concentration may be elected by students majoring in the natural sciences division, and the quantitative analysis concentration may be elected by students in all other majors. Requirements for the concentration are specified within

the catalogue sections on each major. Students working to fulfill two majors should consult the director of the quantitative analysis/applied mathematics program for specific requirements.

**111 Introduction to Quantitative Analysis** Introduction to mathematical concepts and quantitative methods in the context of their application to contemporary issues. Designed to demonstrate the persuasiveness of mathematics in today's world; topics include statistics, operations research, social choice theory, computing, and growth modeling. *Three credit hours.* MR. LANE

**491 Independent Study** This course is intended to provide students with experience in the use of quantitative skills. Wherever applicable, the course work should be tied to the student's major discipline. *Prerequisite:* Approval of the director of the quantitative analysis/applied mathematics program, and permission of the instructor. *Three credit hours.* FACULTY

## Religion

*In the department of philosophy and religion.*

*Chairman,* PROFESSOR YEAGER HUDSON

*Professors Robert Reuman, Hudson, Robert McArthur<sup>1</sup>, and Thomas Longstaff; Assistant Professors Daniel Cohen, Debra Campbell<sup>2</sup>, Nikky Singh, and Christopher Shields*

The study of religion in a college curriculum involves the historical and comparative scrutiny of the world's religious traditions: Christianity, Judaism, Islam, Buddhism, Hinduism, Confucianism, and Shinto. Inevitably, the examination of basic questions about religion, such as the existence and nature of God, religious experience, and the role of religion in society, are central to the discipline.

### Requirements for the Major in Religion

Religion 133, 134, 211, 212, 233, 234, 316, and two additional courses in religion, at least one of which must be at the 300 level or higher.

While Philosophy 372 and 373 are not required, they are highly recommended and may be used to satisfy the requirement of two additional courses in religion.

### Requirements for the Major in Philosophy and Religion

Religion 211, 212, 233, 234, 316. Philosophy 152, 211, 331, 332, 372, 373.

For each of the above majors, at least one *independent study project* of at least three credit hours (philosophy or religion) must be taken in January or one of the semesters of the junior or senior year, in addition to the requirements specified above.

A maximum of two courses, not to include any specifically prescribed courses, may be taken on a pass/fail basis in partial fulfillment of the requirements for the above majors. No specifically prescribed course may be taken on a pass/fail basis to satisfy major requirements. The point scale for retention of each of the above majors applies to all other courses that count toward the major.

### Requirements for the Concentration in Quantitative Analysis

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491; one course from Computer Science 126, 132, 231, Mathematics 115, 117, 119, 121, 123, Philosophy 152, 258.

<sup>1</sup>Resident director, Colby in Cork, full year.

<sup>2</sup>On leave second semester.



[111] **Idyllic Garden or Hostile Wilderness: Science, Technology, and Religion in Modern America** Attitudes toward science and technology have often been understood to stand in sharp contrast both to religious values and to a pervasive pastoral ideal in American thought; the interrelationship of these elements in Western culture. *Three credit hours.*

[113] **Religious Autobiography** An examination of religious experiences as described in autobiography, and an introduction to a cross-cultural study of religion. Works include those of Black Elk, Gandhi, Malcolm X, John Woolman, and Augustine. *Three credit hours.*

**133 The Heritage of Western Religion I** A historical overview of the development of Western religion from the third to the sixteenth century; the transformation of the Christian religion from a persecuted, underground religion to an institution sanctioned by the state, and the growth of that institution through the Middle Ages and into the early modern period; theological developments, popular religious movements, and the experience and contributions of Jewish and Muslim communities in the West. Formerly listed as Religion 237. *Four credit hours.* MS. CAMPBELL

**134 The Heritage of Western Religion II** A historical overview of the development of Western religion from the sixteenth century to the present; the variety of ways in which individual believers, congregations, and ecclesiastical authorities have articulated what it means to be religious in different social contexts from pre-Reformation Germany to modern Latin America. Formerly listed as Religion 238. *Four credit hours.* INSTRUCTOR

**211 Religions of India** A study of Hinduism, Buddhism, Jainism, and Sikhism with a focus upon their religious texts and the cultural context within which they developed. An examination of the relationship these religious traditions have to one another, their metaphysical understanding of reality, their theories of the self, and their views of the social—as expressed in ritual, myth, and poetry. *Three credit hours.* MS. SINGH

**212 Religions of China and Japan** An examination of Confucianism, Taoism, and Shinto—the indigenous religions of China and Japan; tracing the entrance of Buddhism into China and Japan and the resulting transformation of this religion in its interaction with these civilizations. The political ideology of Confucianism, the mystical dimensions of Taoism, the mythological aspects of Shinto, and the meditative experiences of Buddhism (haiku, swordsmanship, and the tea ceremony, etc.). *Three credit hours.* MS. SINGH

**213j Contemporary Asian Ideas and Values** The impact of modernity upon the civilizations of India, China, and Japan as reflected in religion, art, philosophy, economics, and politics, focusing on the study of the presence of the past in the conflicts and ambiguities of the contemporary situation. *Three credit hours.* MS. SINGH

†[217] **Religion in America** A survey of the religious components of American history as they are related to the broader aspects of American culture. Attention will be given to the beliefs and practices of Protestantism, Catholicism, and Judaism and

to the issues, past and present, that are important for understanding religion in America. *Three or four credit hours.*

[218] **Buddhist Literature in Asia** A study of Asian story anthologies, biographies, epics, novels, plays, poems, and sermons inspired by Buddhism in India, Tibet, China, Japan, Sri Lanka, and Burma; the diverse relationships between religious intentions and literary forms. *Three credit hours.*

[231] **Myth and Mind: Ways of Envisioning the World** The structure and content of myth as a form of religious expression, emphasizing material from Asian and nonliterate cultures. History and method in the study of mythology, prominent interpretations of mythology, myths of the beginning and the end of the world, and the meaning and problem of mythology in the modern age. *Three credit hours.*

†[232] **Western Spirituality** An examination of selected classics in Western spirituality, including the works of Julian of Norwich, Thomas à Kempis, Martin Luther, Ignatius of Loyola, John Bunyan, Teresa of Avila, John Wesley, and Hannah Whitall Smith. *Three credit hours.*

233 **Biblical Literature I** An introduction to the literature of the Hebrew Bible (the Old Testament) in terms of its historical context, its original meaning, and its significance in the contemporary world. The narratives, prophecies, and other literary forms are studied against the background of the history of Israel in order to understand the history and religion of the people for whom this literature became normative scripture. *Three or four credit hours.* MR. LONGSTAFF

234 **Biblical Literature II** Intended as a sequel to Religion 233; an introduction to the specifically Christian scriptures (the Old Testament Apocrypha and the New Testament). Beginning with the intertestamental period, an exploration of the literature which reflects the background and earliest stages of the Christian movement. Attention is given to the historical and cultural context of the literature, the development of early Christian theology, and its significance for the contemporary world. *Three or four credit hours.* MR. LONGSTAFF

†[235] **Religions of the Oppressed** A look at five religious movements arising out of some form of political, economic, social, or sexual oppression: Melanesian Cargo Cults, American Indian religions, American slave religion, the Black Muslims, and thirteenth-century European women mystics. The role of the conditions leading to the development of the movements, and to the prophet, cosmology, and rituals. *Three credit hours.*

251 **Religion and Art** The different theories of the relation between religion and art as reflected in ancient, medieval, and modern philosophers of art and in the religious traditions of East and West. Selective works of Plato, Aquinas, Tolstoy, Clive Bell, Coomaraswamy, and al-Farugi will be studied. Architecture, literature, symbols, arabesque, and iconography from the different religious traditions will be aesthetically encountered. *Three credit hours.* MS. SINGH

252 **Village India** The unity and diversity of myths, rites, festivals, social practices, and domestic activities as embodied in the life of a north Indian village. The

village will also serve as a mirror through which to examine the relationship between ancient Indus Valley civilization and modern India. *Three credit hours.* MS. SINGH

**254d1 Islam and the Middle East** An introduction to Islam, beginning with Muhammad and the Qur'an and exploring the major beliefs, practices, and institutions of this religion. Consideration will be given to the diversity within Islam (e.g., Sunni, Mu'tazilite, Sufi, Shi'ite, etc.) as well as to its general characteristics. Attention will be given both to Islam in its formative period and to Islam as a dominant religion in the contemporary Middle East. *Three or four credit hours.* MR. LONGSTAFF

**257 Women in American Religion** The changing role of women in American religious movements from the seventeenth century to the present, focusing on the experiences of "famous" women, e.g., Ann Hutchinson, the Salem witches, Mother Ann Lee, the Grimke sisters, Frances Willard, Elizabeth Cady Stanton, Dorothy Day, Mary Daly, as well as the experiences of "anonymous" women in Protestant, Roman Catholic, Jewish, and selected utopian communities. The ongoing struggle for women's ordination and women's equality within organized religion and the recent efflorescence of feminist theologies. *Three credit hours.* MS. CAMPBELL

[258] **Religious Perceptions of Gender** The cross-cultural examination of religious attitudes expressed in mythology, philosophical texts, theology, ritual practice, and institutional forms that contribute to an understanding of maleness and femaleness. Emphasis on understanding the manner in which religious perceptions and values reflect or challenge prevailing cultural norms; attention focused on examples from Eastern and Western religious traditions. *Three credit hours.*

**259 The Catholic Church in the Modern World** An examination of the Roman Catholic Church during the past century with special emphasis upon the ferment of the past quarter century; the documents of Vatican II, the emergence of Third World liberation theologies, and the evolution of Catholic teachings on sexuality, nuclear weapons, economic affairs, and the role of women in the church. *Three credit hours.* MS. CAMPBELL

[277, 278] **Religious Perspectives** Interdisciplinary considerations of various topics. *Three credit hours.*

[314] **Religion in Modern India** Rural and urban forms of religion in present day India: novels, anthropological accounts of village life, debates between learned religious specialists, and folk literature. Focus on the role of karma, notions of "caste," and the effects of modernization on religion. *Prerequisite:* Religion 211 or 258 or Anthropology 312 or permission of the instructor. *Three credit hours.*

†[316] **Contemporary Western Theology** Basic traditions at the turn of the century (i.e., Protestant, Catholic, Jewish); a survey of developments to midcentury (e.g., biblical, philosophical, psychological, sociological); and significant developments since midcentury (the death of God, black theology, liberation theology, theology of hope, feminist theology, technology and religion). *Three credit hours.*

[351] **Job and Wisdom** Wisdom literature is an international phenomenon usually transcending national and cultural interests and focusing on questions of value. The book of Job will be studied as the best example of this literary genre to be

found in the canonical writings of Judaism and Christianity. Comparisons with other examples of ancient Near Eastern wisdom literature will be drawn, the authors' judgments about the values of life and faith will be discussed, and the question of the relevance of this literature in the modern world will be explored. *Prerequisite:* Religion 233. *Three credit hours.*

[352] **The Theology of Paul** Early Christian theology was more often shaped by the heat of controversy than by the calm analysis of theological reflection. Paul's letters, and the controversies that prompted them, will be studied as a basis for understanding Pauline theology, its relation to other elements of first-century religion, and its influence on later Western thought. *Prerequisite:* Religion 234. *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 233. *Three credit hours.*

\*358j **Jesus of Nazareth** An intensive study of the life and teachings of Jesus, employing the methods of gospel study developed in the nineteenth and twentieth centuries. The course will examine the canonical and extracanonical literature about Jesus, including recent studies of these materials. Attention will be given to the importance of the "quest for the historical Jesus" for contemporary Christianity. Open to freshmen and sophomores with permission of the instructor. *Prerequisite:* Religion 234. *Three credit hours.* MR. LONGSTAFF

[371] **Western Monasticism** The development of Western monasticism and its function in European Christianity, focusing on ascetic ideals and practices, rules and communal life, and influential figures such as Benedict, John Climacus, Bernard of Clairvaux, and Hadewijch of Antwerp. *Three credit hours.*

†[372] **Philosophy of Religion** Listed as Philosophy 372 (q.v.). *Three or four credit hours.*

†[373] **History of Medieval Philosophy** Listed as Philosophy 373 (q.v.). *Three or four credit hours.*

[391], 392 **Religion Seminar** "Judaism: Ancient and Modern," an exploration of important developments in Judaism in the late second Temple and Mishnaic periods, concentrating on the beliefs and practices which became normative at this time. The process leading to the pluralism characteristic of modern Judaism and the issues faced by Judaism in the late twentieth century. Religion 233 is recommended as prerequisite. *Three credit hours.* MR. LONGSTAFF

491, 492 **Independent Study** Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY

# Russian

*In the department of modern foreign languages.*

Students interested in Russian are invited to consider an independent major (q.v.), combining their study of Russian with another area of concentration (another language or literature, art, economics, history, music, philosophy, sociology). Such students are encouraged to take advantage of various summer programs offered domestically and in the Soviet Union, and to compete for a place in a semester language program in Leningrad or Moscow.

†[001j] **January in the USSR** A comprehensive introduction to the Soviet Union, its culture, and its people. Visits to four cities in the USSR: Moscow and Leningrad, the capitals of Russia; Kiev, the capital of the Ukraine; and Tallin, the capital of Estonia. In each city there will be meetings with Soviet youth, lectures on Soviet life, and other information programs. Excursions to museums and theater visits will increase the students' knowledge of Russian history, literature, and art. *Prerequisite:* Permission of the sponsor. *Noncredit.*

**125, 126 Elementary Russian** Introduction to the language by an audio-lingual method, with emphasis on understanding spoken Russian and on learning the structure of the language. The use of taped structural drills in the language laboratory is an integral part of the course. *Four credit hours.* FACULTY

**127 Intermediate Russian** Continued study of grammar, with emphasis on vocabulary building, reading, and self-expression. The use of taped materials in the language laboratory continues as an integral part of the course. *Prerequisite:* Russian 126 or two years of high school Russian and appropriate score on the placement test. *Four credit hours.* FACULTY

**132 Readings in Russian** Selected literary and nonliterary texts from the twentieth century; continuing practice in grammar, conversation, and composition. Conducted in Russian and English. *Prerequisite:* Russian 127 or the equivalent. *Four credit hours.* MR. ANEMONE

**225, 226 Advanced Russian** Grammar review and practice in oral and written expression. Reading and analysis of literary and nonliterary texts of Modern Standard Russian. Conducted in Russian and English. *Prerequisite:* Russian 127 or permission of the instructor. *Four credit hours.* MR. ANEMONE

\*231, †[232] **Topics in Russian Literature** Topics, which change every year, may cover an author, a genre, or a theme central to Russian literature of the nineteenth and twentieth centuries. Fall 1986: Dostoevsky. Conducted in English, no knowledge of Russian required. *Three credit hours.* MR. ANEMONE

†[237] **Nineteenth-Century Russian Literature in Translation** Lectures and discussions of representative works in prose by Pushkin, Gogol, Lermontov, Turgenev, Dostoevsky, and Chekhov. *Three credit hours.*

**\*238 Twentieth-Century Russian Literature in Translation** Close readings of works by such major twentieth-century writers as Sologuss, Bely, Mayakovsky, Bassel, Bulgakov, Zamjatin, Olesha, Pasternak, and Solzhenitsyn. *Three credit hours.* MR. ANEMONE

**491, 492 Independent Study** Individual readings, in English and/or Russian, in areas of the student's major interest. *Prerequisite:* Permission of the instructor. *Two to four credit hours.* MR. ANEMONE

## Selected Topics

**-97, -98 Study of Selected Topics** Each department and interdisciplinary major may from time to time offer special courses not otherwise included in its regular course listing. When such a course is offered, it will be listed under the appropriate subject heading. The first digit of its number will depend on the level at which it is offered. Titles, descriptions, prerequisites, and number and type of credits will be determined by the department or interdisciplinary major offering the course, and will be available at registration.

## Sociology

*Chairman, ASSOCIATE PROFESSOR SONYA ROSE*

*Professors Frederick Geib, Jonas Rosenthal, and Thomas Morrione; Associate Professor Rose; Assistant Professors Beatrice Edwards<sup>1</sup>, Linette Poyer, and Cheryl Gilkes*

The department offers a wide variety of courses in sociology and anthropology, serving those students who want a broad introduction to theory and methods, and also those who seek preparation for graduate study and research in sociology, anthropology, social work, and related fields. Short courses, independent study, and field experiences are part of the curriculum, and many majors play an active role in such Waterville community agencies as the public schools, YMCA, Kennebec Valley Regional Health Agency and Community Action Program, and local hospitals. Both students and faculty participate in interdisciplinary programs, including American studies, black studies, human development, and women's studies.

### Requirements for the Major in Sociology

Sociology 115, 131, 271, 272, 311, 318, and 15 additional hours in sociology; any combination of 12 hours selected from anthropology, economics, government, history, and psychology. Sociology 271 should be taken before the end of the sophomore year. A junior and a senior seminar, or a written or oral comprehensive examination, must be passed.

At least one independent January program must be taken in sociology during the junior or senior year.

The point scale for retention of the major applies to all courses in anthropology and sociology. No requirement for the major may be taken pass/fail.

Sociology majors without a concentration in anthropology may count a maximum of 12 credit hours in anthropology, with no more than four credit hours in an area course, and no more than four credit hours in a topical course, to count toward fulfillment of the major.

### Requirements for the Major in Sociology with a Concentration in Anthropology

Sociology 131, 271, and 311; Anthropology 111 and 112; one course in anthropology theory or methods (219, 311, 312, or 397); one course in anthropology area study (211, 231, 232, or 233); one topical anthropology course (236, 297, or 397); six additional hours in sociology courses above the 100 level; any combination of 12 additional hours selected from economics, government, history, and psychology. A junior and a senior sociology seminar, or a written or oral comprehensive examination, must be passed.

At least one independent anthropology January program must be taken during the junior or senior year.

The point scale for retention of the major applies to all courses in anthropology and sociology. No requirement for the major may be taken pass/fail.

### Requirements for the Concentration in Quantitative Analysis

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491; one course from Computer Science 132, 231, Mathematics 119, 121, 123, 272, Philosophy 152, 258.

<sup>1</sup>On leave full year.

†[112j] **Interaction Process Analysis** Theories and methods of understanding interpersonal behavior as it occurs in small groups. Synthesis of concepts, theory, and observation of the group. Enrollment limited to 16; preference given to freshmen. *Prerequisite:* No prior sociology courses and permission of the instructor. *Three credit hours.*

**115d American Values, Then and Now** Within a historical framework, the course examines the evolution of contemporary American society from its beginnings early in the 1600s, focusing on changes in key values and institutions. *Three or four credit hours.* FACULTY

**131d Principles of Sociology** 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. Multisectioned, with each having a distinctive theme. Formerly listed as Sociology 121, 122. *Four credit hours.* FACULTY

[211], 211j, 212 **Short Courses in Sociology** During each semester several different short courses will be offered. A student may take any or all; however, registration is required for each course. Each course will run approximately four to six weeks. By department rule, dropping or adding any short course must be done *prior* to the second meeting of the class. Cannot be counted toward the sociology major unless Sociology 131 is taken previously or concurrently. Enrollment limited. *Prerequisite:* Permission of the instructor. *One or two credit hours per short course.* MR. GEIB

†[231] **Contemporary Social Issues** Analysis of selected controversial issues in contemporary society. General theoretical frameworks in the sociology of social problems will be considered to analyze several social issues from one or more perspectives. Special attention given to areas such as alienation, economic and political freedom, poverty, and social inequality. *Prerequisite:* Sociology 131 or permission of the instructor. *Three credit hours.*

**233 Criminology** Crime in social and cultural perspective, conditions and situations that encourage antisocial conduct, the philosophy and practice of punishment, and programs for reducing or eliminating crime. *Prerequisite:* Sociology 131. *Three credit hours.* MR. GEIB

†[237] **The Sociology of Child Development** The family as transmitter of the culture, relationships between social forces acting upon the family and the socialization process, and relationships between family characteristics, transmission, and socialization. See also Education 213, 253, 254. *Prerequisite:* Sociology 131. *Three credit hours.*

[252] **Race and Minorities** Major problems of race and minority groups, focusing on contemporary United States. *Prerequisite:* Sociology 131. *Three credit hours.*

†[253] **Women and Fascism** An overview and comparison of the socio-political and economic treatment of women in Nazi Germany and Falangist Spain, focusing first on the ideological elements of fascism that determined the status of women. These elements involve religion and the family, the family and the state, the state and the individual. Subsequently, the economic imperatives underlying the special oppression of women under fascist regimes will be considered. *Prerequisite:* Sociology 131. *Three credit hours.*

**271 Introduction to Sociological Research Methods** Introduction to a variety of research methods employed by sociologists. Topics include problem definition, the logic of inquiry, the relation between theory and research, research design, sampling, and techniques for data collection and analysis. *Prerequisite:* Sociology 131. *Three credit hours.* INSTRUCTOR

**272 Advanced Research Methods** Using either available resources or data collected for a specific investigative purpose, students will design and execute a research project. The course will incorporate manipulation of quantitative data using the computer, basic statistical analysis, interpretation of statistical results, and integration of empirical findings into sociological theory. *Prerequisite:* Sociology 271. *Three credit hours.* INSTRUCTOR

[273] **The Family** Changes in the family and its relationship to other institutions in society are examined using a sociohistorical perspective. *Prerequisite:* Sociology 131. *Three credit hours.*

[274] **Social Stratification** Using a historical and sociological orientation, this course will examine how man constructs a world of social inequality. Study of past and present stratification systems, their origins, development, and decline. The quest for social equality as the enigma of modern man. *Prerequisite:* Sociology 131 or permission of the instructor. *Three credit hours.*

†[275j] **Social Situations: Theory and Observation** An introduction to issues, problems, and strategies relating to the observation and analysis of human interaction in natural social settings. A social-psychological perspective is developed through discussion of first-hand field experience and participant observations in a variety of settings. *Prerequisite:* Sociology 131 and permission of the instructor. *Three credit hours.*



**276d1 Men and Women in Society** The behaviors expected of people because of their sex and differences in the status of men and women in society will be examined using a sociohistorical perspective. Theories accounting for sex differences will be analyzed, and the consequences of social inequality based on sex in contemporary society will be explored. *Prerequisite:* Sociology 131. *Three credit hours.* MS. ROSE

†[277] **Sociological Social Psychology** An analysis of major social-psychological views of human behavior, with special emphasis on the works of George Herbert Mead and Herbert Blumer. Human group life, social behavior, self, situations, and society examined from a symbolic interactionist point of view. *Prerequisite:* Sociology 131. *Three credit hours.*

**311 History of Sociological Theory** The history of sociology, and a critical survey of the systems of thought about society, centered on major schools of sociological theory and their representatives. The place of theory in social research as presented in works of major social theorists. *Prerequisite:* Sociology 131. *Three credit hours.* INSTRUCTOR

**316j Special Topics in Sociology** Topics in selected areas of sociology. The current topic is "Marx and His Critics." *Prerequisite:* Sociology 131 or Anthropology 111. *Three credit hours.* INSTRUCTOR

**318 Contemporary Theory** An analysis of the contemporary state of sociology as a discipline. Special attention given to critical theory, phenomenology, ethnomethodology, symbolic interactionism, and existential sociology. *Prerequisite:* Sociology 131 and permission of the instructor. *Three credit hours.* INSTRUCTOR

**332 Industry and Occupations** Work is an activity that consumes a good portion of most people's lives. Using a historical and comparative approach, this course will focus on the changing meaning of work and on changes in the occupational structure, work settings, and the organization of work. *Prerequisite:* Sociology 131. *Three credit hours.* MS. ROSE

†[334] **Social Deviance** Definitions of deviance and theories of explanation and analysis of deviant behavior. Readings and discussions will emphasize the history and development of contemporary perspectives. Enrollment limited to 15; seniors and majors given preference. *Prerequisite:* Sociology 131 and permission of the instructor. *Three credit hours.*

**371, 372 Practicum in Sociological Research** Under supervision of a faculty member, on a tutorial basis, each student will develop and pursue a sociological research project of limited scope. Although survey research is the design most frequently chosen, alternate modes appropriate to the problem defined and data derived may be developed (e.g., field studies, field experiments, laboratory experiments, participant observation, content analysis). *Prerequisite:* Sociology 271 and permission of the instructor. *Three or four credit hours.* FACULTY

**374 Junior Sociology Seminar** Extensive study of the meaning and uses of central concepts that are the intellectual tools of the sociologist, seeking an understanding of the divergencies and convergencies in terms of sociological perspectives and schools of thought. Participation in the analysis of some common readings and of in-

dividual and group presentations. *Prerequisite:* Junior standing as a sociology major or permission of the instructor. *Three credit hours.* MR. ROSENTHAL

†[392] **Social Change** Although a historical approach is used at times, this course is primarily theoretical. The mechanisms, functions, and consequences of social change. Particular attention is given to the relevance of social change for the social order. *Prerequisite:* Sociology 131. *Three credit hours.*

†[394] **Collective Behavior** A course that seeks to shed light on the plight of contemporary man through the examination of the various instances of collective behavior—crowds, masses, publics, and social movements—and the forces that mold each. Consideration is given also to public opinion, propaganda, communication and the major mass media, and their functions in modern society. *Prerequisite:* Sociology 131 or permission of the instructor. *Three credit hours.*

**412 Sociological Issues in Third World Development** Major sociological and economic issues in Third World development and the interaction of social and economic forces in the development process. Among the issues to be addressed are: the consequences of colonialism, theories of underdevelopment, structural demographic changes, industrialization, land reform, human-resource development, and the role of the state in the growth process. *Prerequisite:* Sociology 131. *Three credit hours.* INSTRUCTOR

**413d2 Organizational Theory** Large complex organizations have come to exert more and more influence over our lives and at a rapidly increasing rate. A structural analysis of such organizations to improve understanding of them; and consideration of individuals as they are affected by their participation in these organizations and their influence on organizational processes. *Prerequisite:* Sociology 131. *Three credit hours.* MR. GEIB

**491, 492 Independent Study** Individual topics in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Senior standing and permission of the department. *Two to four credit hours.* FACULTY

**494 Senior Sociology Seminar** The meaning and development of sociological perspectives. Individual projects developed from group discussions. *Prerequisite:* Sociology 374, senior standing, and permission of the instructor. *Three credit hours.* MR. MORRIONE

## Spanish

*In the department of modern foreign languages. Unless otherwise specified, all courses numbered above 127 are conducted in Spanish. Spanish 151 or 152 or permission of the instructor is required for all courses numbered 200 or higher.*

*Professors Henry Holland<sup>1</sup> and Francisco Cauz; Associate Professors Priscilla Doel and Jorge Olivares; Instructors Javier Gonzalez-Alonso and Marcia Tardito; Lecturer Barbara Nelson<sup>2</sup>*

**Achievement Test:** If a student offers a foreign language for entrance credit and wishes to continue it in college, that student must either have taken the College Board achievement test in the language or take the placement test during freshman orientation.

### Requirements for the Major in Spanish

Spanish 232 and at least seven additional semester Spanish courses numbered above 141; one course at the 200 level or above in each of the following areas: Golden Age, Modern Peninsular literature, and Spanish American literature.

The following statements also apply:

- (1) The point scale for retention of the major is based on all Spanish courses numbered above 141.
- (2) No major requirements may be taken pass/fail.
- (3) No more than the equivalent of four semester courses of foreign study or transfer credit may be counted toward the major.
- (4) All majors must take at least one course in Spanish approved by the major adviser each semester until graduation.

### Requirements for the Concentration in Quantitative Analysis

Computer Science 125; Mathematics 112, 231, 241, or 381; Quantitative Analysis 111, 491; one course from Computer Science 126, 132, 231, Mathematics 115, 117, 119, 121, 123, Philosophy 152, 258.

**Teacher Certification:** Students desiring certification for teaching Spanish should consult the department of modern foreign languages and the education department.

<sup>1</sup>Resident director, Colby in Cuernavaca, first semester.

<sup>2</sup>Part-time.

**115 Mexican History** A survey covering the period from the pre-Columbian civilizations through the modern era. Course conducted in Spanish. Nongraded. Offered in Cuernavaca. *Two credit hours.* FACULTY

**116 Mexican Society** An introduction to contemporary Mexican society with special emphasis on the role of the Indian and the mestizo. Course conducted in Spanish. Nongraded. Offered in Cuernavaca. *Two credit hours.* FACULTY

**117j Intensive Spanish** A course in oral and written Spanish given at the Center for Bilingual Multicultural Studies in Cuernavaca, Mexico, intended for students at the 100 level in Spanish. Nongraded. *Prerequisite:* Permission of the instructor. *Three credit hours.* INSTRUCTOR

**124d1 Intermediate Spanish** 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 123 or appropriate score on the College Board Spanish achievement test. *Four credit hours.* FACULTY

**125, 126, 127 Intensive Spanish in Mexico** An intensive Spanish language course given in Cuernavaca, Mexico, and open primarily to incoming freshmen. *Twelve credit hours.* MR. HOLLAND

**125d, 126d Elementary Spanish** Introduction to the language by an audio-lingual method, with emphasis on understanding, speaking, and reading. Use of taped materials in the language laboratory is a regular part of the class work. *Four credit hours.* FACULTY

**127d Intermediate Spanish** Continued practice in the oral-aural skills, with increasing emphasis on reading and writing. *Prerequisite:* Spanish 126 or appropriate score on the College Board Spanish achievement test. *Four credit hours.* FACULTY

**141d Introduction to Reading in Spanish** The development of reading skills through Spanish and Spanish-American texts. Enrollment limited. *Prerequisite:* Spanish 127. *Four credit hours.* FACULTY

**142d Conversation and Composition** Language review with emphasis on oral expression, written composition, and vocabulary development. Formerly listed as Spanish 131. Enrollment limited. *Prerequisite:* Spanish 141. *Three credit hours.* FACULTY

**151, 152 Introducción a la Literatura Hispánica** The Hispanic tradition reflected in the works of major figures of Spain and Latin America. *Prerequisite:* Spanish 142 or permission of the instructor. *Three credit hours.* FACULTY

**153 An Introduction to Mexican Literature** A survey of Mexican literature from the colonial period through the twentieth century. Formerly listed as Spanish 139. Offered in Cuernavaca. *Three credit hours.* MR. HOLLAND

**\*218 Spanish American Culture** A consideration of the ways representative Spanish American thinkers define *lo americano*. Topics for discussion will include cultural stereotypes, colonialism, anglophobia, miscegenation, and revolution. Readings from different genres (poetry, novel, essay, theater) and authors, such as Arrivi, Carpentier, N. Guillén, Martí, Neruda, Paz, Rodó, and Vasconcelos. *Three credit hours.* MR. OLIVARES

**\*232d Advanced Spanish** A review of Spanish grammar at the advanced level, with directed themes and free composition. Enrollment limited. *Prerequisite:* Spanish 142 or permission of the instructor. *Three credit hours.* MS. TARDITO

**\*255 Nineteenth-Century Spanish Literature** Representative works of romanticism and realism. *Four credit hours.* MR. GONZALEZ

†[256] **The Generation of 1898** The principal figures of this generation. Unamuno, Azorín, Baroja, Valle-Inclán, and Machado. *Four credit hours.*

**\*257d2 Modern Spanish Literature** The literature of twentieth-century Spain. *Four credit hours.* MR. CAUZ

**\*261 Latin American Literature I** Selected prose, poetry, and theater from the period of Independence to the early 1900s. *Four credit hours.* MS. DOEL

†[262] **Latin American Literature II** Selected prose, poetry, and theater from the beginning of this century to the contemporary period. *Four credit hours.*

\*332 **Contemporary Latin American Fiction** Authors will include Carlos Fuentes, García Márquez, Manuel Puig, Julio Cortázar, and Jorge Luis Borges. *Four credit hours.* MS. TARDITO

[337] **Medieval Spanish Literature** Medieval Spanish classics: *El Cid, El libro de buen amor, La Celestina,* and *El romancero.* *Four credit hours.*

\*351 **El Siglo de Oro** The Spanish classical theater, the picaresque novel, and selected works of Cervantes. *Four credit hours.* MS. TARDITO

\*352 **Don Quijote** Study and analysis of *Don Quijote de la Mancha.* *Four credit hours.* MS. DOEL

†[358] **The Contemporary Spanish Novel** The Spanish novel after the Spanish war (1936-39). Authors will include Carmen Laforet, Camilo José Cela, Ignacio Aldeloa, Jesús Fernández Santos, Juan Marsé, Luis Martín Santos, and Juan Goytisolo. *Four credit hours.*

491, 492 **Independent Study** Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor. *Two to four credit hours.* FACULTY

493, 494 **Seminar in Spanish and Latin American Literature** Topics, which change each semester, may cover an author, a genre, or a literary movement. (Fall 1986: Detectives and Spies: Forms of popular culture in Spanish-American fiction.) *Prerequisite:* Permission of the instructor. *Four credit hours.* MR. OLIVARES

## Special Programs

*Director,* ASSOCIATE PROFESSOR ROBERT KANY

Recognizing the fact that diverse interests exist in every community, and that even the most professionally trained individuals have a need to continue their education, Colby maintains a division of special programs with a full-time director.

Each summer, approximately 6,000 individuals from throughout the nation and other countries are on campus for courses, conferences, seminars, and institutes in areas of medicine, public and professional services, and youth camps.

The major focus of the summer program is continuing medical education (CME); indeed, Colby is the only undergraduate college in the country approved by the Accreditation Council for Continuing Medical Education to sponsor CME for physicians. There are about 15 CME offerings each year in a variety of specialty and family-practice programs attended by health-care professionals.

A coordinating council of Colby administrators and physicians from Waterville's Mid-Maine Medical Center advises and helps to manage this educational component.

Approximately 125 doctors enroll each summer in the nine-week Lancaster Course in Ophthalmology, and three- to five-day seminars are held in Anesthesiology, Emergency Medicine, Endoscopy, Family Practice, Forensic Medicine, Allergy-

Immunology, Obstetrics-Gynecology, Ophthalmology, Orthopaedics, Otolaryngology, Pediatrics, and Surgery. The Maine Orthopaedic Review is a two-week course.

In addition to CME accreditation, for courses designed for primary-care physicians, American Academy of Family Practice credit is generally available. Some of the medical seminars are cosponsored by nationally recognized organizations such as the National Association of Medical Examiners.

Public and professional service programs include the Estate Planning and Tax Institute, Advanced Audiology, Church Music Institute, Great Books, and Piano Institute. Youth camps for cheerleading, field hockey, soccer, football, basketball, wrestling, etc., are available.

During the academic year, the division arranges such annual conferences as the Colby Institute for Management. Adult courses and noncredit courses for which the continuing education unit may be earned are also structured and evaluated through special programs. In addition, the use of Colby's facilities for conferences is coordinated through the division of special programs throughout the year.

Information may be obtained by writing to the director, Robert H. Kany.

## Technology Studies

In connection with the Sloan Project in Science, Technology, and the Liberal Arts, the following interdisciplinary, experimental course is offered.

**197 Interdisciplinary Perspectives on Technological Innovation** The course will make use of the highly acclaimed PBS series, "Connections," as a vehicle for exploring the ways in which scientific discoveries and technological progress are linked to a wide range of social and cultural factors. Faculty from a number of academic disciplines will provide critical responses to these programs, originally produced for public television, to provide a format for reflection upon and understanding of the processes of discovery and innovation. *One credit hour.* MR. METZ AND MR. LONGSTAFF

## Women's Studies

*Coordinators*, ASSISTANT PROFESSOR PAMELA BLAKE AND ASSOCIATE DIRECTOR OF CAREER SERVICES NANCY MACKENZIE

The women's studies program is devoted to analyzing the social, psychological, political, economic, historical, and artistic dimensions of women's experience, drawing on courses from a broad range of disciplines to reflect the complexities of women's lives. It encourages the development of new methods of analysis and the introduction of previously neglected fields of study with the goal of enriching the entire college curriculum.

A major in women's studies may be pursued by students under the auspices of the Independent Major Board. Students should consult with a member of the Women's Studies Advisory Board for guidance in structuring such a major.

### Courses Offered in the Women's Studies Program

*American Studies*: 274 The Female Experience in America.

*Art*: 374 Women and Film.

*Education*: 294 Women in Professions.

*English*: 494A Art and Oppression; 494j Seminar in Women's Poetry; 494B Literature of the Black Woman Writer.

*French:* 351 French Canadian Literature; 353 Francophone Women Writers.

*German:* 333 German Women Writers.

*Government:* 114j The Constitution and Civil Rights: Blacks, Women, and Gays; 312 Directions in Feminist Theory; 434 Women in American Politics.

*History:* 236 History of Women in Europe; 257 History of Women in America; 211 Public Lives/Private Lives: Male and Female Experience in Europe from the Middle Ages to the Present; 419 Women in Law and Medicine in Early Modern Europe: The Witch Craze.

*Psychology:* 217 Sex Differences in Human Behavior.

*Religion:* 257 Women in American Religion.

*Sociology:* 273 The Family; 276 Men and Women in Society.

# Directories and Appendices

The Corporation	169
Faculty	176
Administration	194
Enrollment by States and Countries	197
Degrees Awarded at Commencement	198
Honors	204
Index	211
College Calendar 1986-87	216
College Calendar 1987-88	217





# The Corporation 1986-87

## Corporate Name

THE PRESIDENT AND TRUSTEES OF COLBY COLLEGE

## Officers

WILLIAM R. COTTER, J.D., Waterville, Maine, *President*

H. RIDGELY BULLOCK '55, M.A. '77, J.D., Greenwich, Connecticut, *Chairman of the Board*

LAWRENCE REYNOLDS PUGH '56, M.A. '82, Reading, Pennsylvania, *Vice Chairman of the Board*

DOUGLAS NELSON ARCHIBALD, M.A. '73, Ph.D., Pittsfield, Maine, *Vice President for Academic Affairs and Dean of Faculty*

STANLEY A. NICHOLSON, Ph.D., Waterville, Maine, *Administrative Vice President*

GEORGE CALVIN MACKENZIE, M.A. '86, Ph.D., Waterville, Maine, *Vice President for Development and Alumni Relations*

SIDNEY WEYMOUTH FARR '55, M.A., M.B.A., Waterville, Maine, *Secretary*

DOUGLAS EDWARD REINHARDT '71, M.B.A., Waterville, Maine, *Treasurer*

EARL HAROLD SMITH, B.A., Waterville, Maine, *Dean of the College*

JANICE ARMO SEITZINGER, M.A., Oakland, Maine, *Dean of Students*

PARKER JOY BEVERAGE, M.A., Waterville, Maine, *Dean of Admissions and Financial Aid*

## Board of Trustees

RICHARD LLOYD ABEDON '56, M.A. '86, J.D., Tiverton, Rhode Island, *Chairman, The Abedon Group (1990)*

HOWARD DALE ADAMS, B.A., M.A. '85, Lake Forest, Illinois, *Chairman, Crabtree Capital Corporation (1990)*

ROBERT NEWTON ANTHONY '38, M.A. '59, D.C.S., L.H.D. '63<sup>1</sup>, Waterville Valley, New Hampshire, *Ross Graham Walker Professor of Management Control Emeritus, Harvard Business School (1990)*

ANNE LAWRENCE BONDY '46 (MRS. EUGENE, JR.), M.A. '81, Mamaroneck, New York, *Member, Board of Cooperative Educational Services (Al. 1987)*

H. RIDGELY BULLOCK '55, M.A. '77, J.D., Greenwich, Connecticut, *President and Chief Executive Officer, Montchanin Management Corporation (1989)*

ROBERT WILLIAM BURKE '61, M.A. '81, M.B.A., Somerset, New Jersey, *Vice President, Personnel, Goldman, Sachs, and Company (Al. 1987)*

ALIDA MILLIKEN CAMP (MRS. FREDERIC E.), A.B., M.A. '64, L.H.D. '79<sup>2</sup>, East Bluehill, Maine, *Vice President, National Multiple Sclerosis Society*

- LEVIN HICKS CAMPBELL, M.A. '82, LL.B., Cambridge, Massachusetts, *Chief Judge, U.S. Circuit Court of Appeals* (1990)
- CLARK HOPKINS CARTER '40, M.A. '65, L.H.D. '80, Greenwich, Connecticut, *Corporate Vice President Retired, Richardson-Merrell, Incorporated* (1989)
- JOHN GILRAY CHRISTY, A.B., M.A. '84, M.A., Philadelphia, Pennsylvania, *Chairman and President, IU International Corporation* (1988)
- WILLIAM R. COTTER, J.D., Waterville, Maine, *President*
- WARREN JOHN FINEGAN '51, M.A. '80, Wayland, Massachusetts, *Investment Broker* (Al. 1989)
- WILLIAM HOWE GOLDFARB '68, M.A. '85, J.D., Avon, Connecticut, *President, HRW Resources, Incorporated* (1989)
- RAE JEAN BRAUNMULLER GOODMAN '69 (MRS. ROBERT P.), M.A. '83, Ph.D., Annapolis, Maryland, *Associate Professor of Economics, United States Naval Academy* (Al. 1989)
- NANCY SPOKES HAYDU '69, M.A. '86, M.C.R.P., Wellesley, Massachusetts (1990)
- GERALD JAY HOLTZ '52, M.A. '84, M.B.A., Brookline, Massachusetts, *Partner, Arthur Andersen & Co.* (1988)
- PHILIP WILLIAM HUSSEY, JR. '53, M.A. '81, Kennebunkport, Maine, *President, Chief Executive Officer, and Director, Hussey Corporation* (Al. 1987)
- ELLERTON MARCEL JETTE, M.A. '50, LL.D. '55<sup>1, 2</sup>, Boston, Massachusetts, *Honorary Chairman, C. F. Hathaway Company*
- ROBERT SPENCE LEE '51, M.A. '75, Beverly Farms, Massachusetts, *President, Hotwatt, Incorporated* (1987)
- ROBERT ALLEN MARDEN '50, M.A. '68, LL.B., Waterville, Maine, *Attorney, Marden, Dubord, Bernier and Chandler* (1989)
- DAVID MARVIN MARSON '48, M.A. '84, Dedham, Massachusetts, *President, The New Can Company, Incorporated* (1989)
- LAWRENCE CARROLL MCQUADE, M.A. '81, LL.B., New York, New York, *Executive Vice President and Group Executive, W. R. Grace & Company* (1989)
- BEVERLY FAYE NALBANDIAN '80, M.A. '86, M.A., Providence, Rhode Island, *Product Manager, Fidelity Institutional Services Company* (Al. 1989)
- WILSON COLLINS PIPER '39, M.A. '59, LL.D. '75, LL.B., Wellesley, Massachusetts, *Partner, Ropes and Gray* (1990)
- FREDERICK ALBERT POTTLE '17, M.A. '32, Litt.D. '41, Ph.D., New Haven, Connecticut, *Sterling Professor of English Emeritus, Yale University*
- KERSHAW ELIAS POWELL '51, M.A. '82, D.M.D., Waterville, Maine, *Dentist* (Al. 1988)
- LAWRENCE REYNOLDS PUGH '56, M.A. '82, Reading, Pennsylvania, *Chairman of the Board and Chief Executive Officer, VF Corporation* (Al. 1988)
- DAVID PULVER '63, M.A. '83, M.B.A., Pine Brook, New Jersey, *Partner, The Market Place Concept* (1987)

SARAH JANNEY ROSE '76, M.A. '85, Washington, D.C., *Trust Officer, American Security Corporation* (Al. 1988)

ROBERT EDWARD LEE STRIDER II, M.A. '57, Litt.D. '79, Ph.D.<sup>2</sup>, Brookline, Massachusetts, *President Emeritus, Colby College*

EDWARD HILL TURNER, A.B., M.A. '82, L.H.D. '73, Belgrade, Maine, *Vice President for Development Emeritus, Colby College* (1987)

### Faculty Representatives

L. SANDY MAISEL, M.A. '83, Ph.D., Waterville, Maine, *Professor of Government* (1988)

JAMES WILLIAM MEEHAN, JR., M.A. '82, Ph.D., Waterville, Maine, *Professor of Economics* (1987)

### Student Representatives

MICHAEL W. ASHLEY '87, Wilmington, Delaware (1987)

HEATHER A. CAMERON '88, Wellesley, Massachusetts (1987)

<sup>1</sup>Former chairman of the board.

<sup>2</sup>Life member.

## Colby College Trustees Emeriti

CHARLES PUTNAM BARNES II '54, M.A. '73, LL.B., 1973-1981

SUSAN FAIRCHILD BEAN '57, M.A. '76, 1976-1982

JOHN WOOLMAN BRUSH '20, M.A. '45, D.D. '39, Ph.D., 1945-1951

WILLIAM LAFRENTZ BRYAN '48, M.A. '72, 1972-1978

JOHN LAWRENCE BURNS, M.A. '78, D.Sc., 1978-1982

HELEN DOROTHY COLE '17, M.A. '35, D.S.S. '42, D.S.S., 1935-1941

JOHN WILLIAM DEERING '55, M.A. '78, 1978-1981

MIRA LOUISE DOLLEY '19, M.A. '37, M.A., 1937-1942

RODERICK EWEN FARNHAM '31, M.A. '59, 1959-1965

HILDA MARY FIFE '26, M.A. '58, Ph.D., 1958-1964

NISSIE GROSSMAN '32, M.A. '65, M.B.A., 1965-1970, 1971-1981

EUGENIE HAHLEBOHM HAMPTON '55, M.A. '72, 1972-1978

WALLACE MEREDITH HASLTON, M.A. '71, 1971-1977, 1978-1981

DORIS HARDY HAWHEELI '25, M.A. '52, 1952-1958

JEAN GANNETT HAWLEY, M.A. '60, L.H.D. '59, 1960-1972

DANIEL RAY HOLT '21, M.A. '56, 1956-1962

CLAYTON WEARE JOHNSON '26, M.A. '65, 1965-1971

LEONARD WITHINGTON MAYO '22, M.A. '57, D.S.S. '42, 1957-1969

- RITA ANN McCABE '45, M.A. '66, 1966-1972, 1973-1983  
 MATTHEW TAYLOR MELLON, M.A. '44, Ph.D., 1944-1959  
 C. DAVID O'BRIEN '58, M.A. '75, 1975-1985  
 PAUL DONNELLY PAGANUCCI, M.A. '75, LL.B., 1975-1985  
 BETTINA WELLINGTON PIPER '35, M.A. '64, 1964-1970  
 PATRICIA RACHAL '74, M.A. '80, Ph.D., 1983-1986  
 JOHN FRANKLIN REYNOLDS '36, M.A. '71, Sc.D. '78, M.D., 1971-1977  
 ALICE LINSOTT ROBERTS '31, M.A. '54, 1954-1960  
 HENRY WESTON ROLLINS '32, M.A. '62, 1962-1968  
 ROBERT CONVERSE ROWELL '49, M.A. '61, 1961-1967  
 ROBERT SAGE '49, M.A. '74, 1974-1986  
 DWIGHT EMERSON SARGENT '39, M.A. '56, M.A. '58, 1958-1964, 1971-1974  
 RICHARD ROBERT SCHMALTZ '62, M.A. '76, 1976-1986  
 MARION WHITE SMITH '17, M.A. '42, 1942-1948  
 RAYMOND SPINNEY '21, M.A. '46, 1946-1952  
 RUSSELL MILLARD SQUIRE, SR. '25, M.A. '48, 1948-1955  
 EUGENE CHARLES STRUCKHOFF '44, M.A. '67, LL.B., 1967-1970  
 W. CLARKE SWANSON, JR., M.A. '70, LL.B., 1970-1976  
 ARTHUR TOTTEN THOMPSON '40, M.A. '70, M.B.A., Sc.D. '69, 1970-1974  
 SIGRID EMMA TOMPKINS '38, M.A. '70, LL.B., 1970-1976, 1977-1985  
 PETER AUSTIN VLACHOS '58, M.A. '77, 1977-1980  
 JEAN MARGARET WATSON '29, M.A. '65, M.A., 1965-1971  
 THOMAS JOHN WATSON III '67, M.A. '75, J.D., 1975-1981  
 ESTHER ZISKIND WELTMAN, M.A. '58, M.Ed., LL.D. '66, 1958-1973, 1974-1977  
 RALPH SAMUEL WILLIAMS '35, M.A. '73, M.B.A., L.H.D. '72, 1973-1983  
 ROBERT FREDERIC WOOLWORTH, M.A. '65, 1965-1977

### Overseers

- HAROLD ALFOND, L.H.D. '80, Waterville, Maine, *Chairman of the Board, Dexter Shoe Company*, Visiting Committee on Physical Education and Athletics (1989)  
 JOSEPH ROBERT ALPERT '54, M.A. '82, Dallas, Texas, *President, Alpert Corporation* (1990)  
 FRANK OLUSEGUN APANTAKU '71, M.D., Chicago, Illinois, *Physician and Assistant Professor, Chicago Medical School*, Visiting Committee on Mathematics (1989)  
 CLIFFORD ALLAN BEAN '51, M.A. '70, M.B.A., Concord, Massachusetts, *Management Consultant, Arthur D. Little, Incorporated*, Trustee Budget and Finance Committee,

Visiting Committees on Economics, on Administrative Science, and on Development (1989)

CHARLES WILLIAM CAREY '63, M.A., Cumberland, Rhode Island, *Executive Vice President, Fleet National Bank* (1990)

JAMES ROBERT COCHRANE '40, Laconia, New Hampshire, *Board of Directors, Former President, The Seiler Corporation*, Visiting Committees on Admissions and on Career Services (1990)

EDWARD R. CONY '44, M.A., Manhasset, New York, *Vice President/News and Executive Director, The Wall Street Journal*, Visiting Committees on American Studies and on Publications and Public Affairs (1989)

Lloyd E. Cotsen, M.B.A., Beverly Hills, California, *President and Chief Executive Officer, Neutrogena Corporation* (1989)

H. KING CUMMINGS, B.S., M.A. '69, Stratton, Maine, *Chairman of the Board and Chief Executive Officer, Guilford Industries*, Visiting Committees on Geology and on Physics (1989)

AUGUSTINE ANTHONY D'AMICO '28, M.A. '54, D.F.A. '78, Bangor, Maine, *President Retired, Penobscot Paint Company*, Trustee Physical Plant Committee (1989)

EDITH EILENE EMERY '37, M.A. '60, M.A., Haverhill, Massachusetts, *Associate Dean of Students Emeritus, Northeastern University*, Trustee Student Affairs Committee (1989)

JOHN WARNER FIELD, SR., B.A., M.A. '60, Fairfield, Connecticut, *Management and Finance Consultant, Mine Hill Consultants Office*, Visiting Committees on Economics and on Administrative Science (1989)

ROBERT A. FRIEDMAN, M.B.A., Scarsdale, New York, *Partner, Goldman, Sachs, and Company* (1989)

RAY BOUTELLE GREENE, JR. '47, Needham, Massachusetts, *President, Greene Associates*, Visiting Committee on Psychology (1989)

JAMES JEROME HARRIS '27, Fort Lauderdale, Florida, *Former Chief Executive Officer, Guest Pac Corporation*, Visiting Committee on Administrative Science (1989)

PETER DAVID HART '64, LL.D. '85, Washington, D.C., *President, Peter D. Hart Research Association, Incorporated* (1989)

JANET GAY HAWKINS '48, Plandome, New York, Visiting Committee on the Library (1989)

SUSAN SMITH HUEBSCH '54, South Dartmouth, Massachusetts, *Real Estate Broker* (1989)

H. ALAN HUME, M.D., Oakland, Maine, *Chief of Staff, Mid-Maine Medical Center*, Visiting Committee on Chemistry (1989)

SOL HURWITZ, B.A., Rye, New York, *Senior Vice President, Committee for Economic Development*, Visiting Committees on Psychology and on Publications and Public Affairs (1989)

EDITH KEMPER JETTÉ, M.A. '62, Boston, Massachusetts, *Cofounder, The Friends of Art at Colby*, Visiting Committee on Art (1989)

KENNETH ALGERNON JOHNSON '37, M.A. '72, M.A., Newton Upper Falls, Massachusetts, *Assistant Headmaster-History, Boston Latin School*, Ralph J. Bunche Scholars Program (1987)

ALLAN JORDAN LANDAU '55, LL.M., Boston, Massachusetts, *Attorney, Widett, Slater & Goldman, P.C.*, Visiting Committee on Physical Education and Athletics (1988)

ROBERT ALF LINDGREN, J.D., New York, New York, *Partner, Rogers and Wells*, Visiting Committee on Music and the Performing Arts (1987)

PETER HAROLD LUNDER '56, Waterville, Maine, *President, Assistant Treasurer, and Director, Dexter Shoe Company*, Visiting Committee on Physical Plant (1990)

William Thomas Mason, Jr. '47, LL.B., Norfolk, Virginia, *Attorney, Robinson, Eichler, Zaleski & Mason*, Visiting Committee on Black Studies and Women's Studies (1987)

ROBERTA PETERS, Mus.D. '81, Scarsdale, New York, *ICM Artists Ltd.*, Visiting Committee on Music and the Performing Arts (1989)

WILLIAM JOSEPH ROUHANA, JR. '72, J.D., Port Washington, New York, *President, WinStar Corporation*, Visiting Committee on Administrative Science (1990)

FREDERICK ALFRED SCHREIBER '34, M.A., Beverly Hills, California, *Management Consultant*, Visiting Committee on East Asian Studies (1989)

PAUL JACQUES SCHUPF, B.A., Hamilton, New York, *President, Woltman & Company, Incorporated*, Visiting Committee on Art (1990)

MARK REDANS SHEDD, Ed.D., Yarmouth, Maine, *Director, Public Policy and Management Program, University of Southern Maine*, Visiting Committee on Education (1988)

GEORGE IRVING SMITH '49, Ph.D., Menlo Park, California, *Geologist, U.S. Geological Survey*, Visiting Committee on Mathematics (1989)

ELAINE ZERVAS STAMAS '53, Scarsdale, New York, Visiting Committee on Music and the Performing Arts (1987)

SYLVIA CARON SULLIVAN '53, Nashville, Tennessee, *Trustee Student Affairs Committee*, Visiting Committee on Education (1989)

M. ANNE O'HANIAN SZOSTAK '72, M.A. '74, Warwick, Rhode Island, *Executive Vice President, Branch Administration, Fleet National Bank*, Visiting Committees on Black Studies and Women's Studies and on Career Services (1989)

JUDITH PROPHETT TIMKEN '57, Lafayette, California, *Art Docent, Oakland Museum*, Visiting Committee on Music and the Performing Arts (1988)

BARBARA HOWARD TRAISTER '65, Ph.D., North Hills, Pennsylvania, *Associate Professor of English, Lehigh University*, Visiting Committees on English and on Music and the Performing Arts (1989)

WILLIAM DUNBAR WOOLDREDGE '61, M.B.A., Hudson, Ohio, *Chief Financial Officer, Belden & Blake Energy Corporation*, Visiting Committees on Government and on Economics (1987)

## Overseers Visiting Committees 1985-86

**Education** November 17-18, 1985 / Mr. Shedd, chairman; Marjorie Rosenbaum, Co-chair, Education Studies Program, Wesleyan University, consultant; Ms. Sullivan.

**Economics** March 2-4, 1986 / Mr. Wooldredge, chairman; John J. Siegfried, Professor of Economics and Chairman of the Economics Department, Vanderbilt University, consultant; Mr. Turner.

**Administrative Science** March 18-20, 1986 / Mr. Field, chairman; Walter Hecox, Professor of Business Economics, Colorado College, consultant; Mr. Rouhana.

**Chemistry** March 30-April 1, 1986 / Dr. Hume, chairman; Laureen Ramonas '72, Associate Director, Health, Safety, and Chemical Regulations Division, Chemical Manufacturers Association, consultant; James F. Skinner, Halford R. Clark Professor of Natural Sciences and Chairman of the Chemistry Department, Williams College, consultant.

**Career Services** April 9-10, 1986 / Ms. Szostak, chairman; Mr. Abedon; Barbara-Jan Wilson, Director of Career Planning Center, Wesleyan University, consultant.

**Sociology and Human Development** April 13-15, 1986 / Ms. Haydu, chairman; Sheila Bennett, Associate Dean of the Graduate School of Arts and Sciences, Emory University, consultant; Nelson E. Bingham, Associate Professor of Psychology and Director of the Human Development and Social Relations Program, Earlham College, consultant; Ms. McCabe; Reece McGee, Professor of Sociology, Purdue University, consultant; Steven Piker, Professor of Anthropology, Swarthmore College, consultant.



# Faculty 1985-87

WILLIAM R. COTTER, J.D. (Harvard), 1979-  
*Professor of Government; President*

DOUGLAS NELSON ARCHIBALD, Ph.D.<sup>1</sup> (Dartmouth, Michigan), 1973-  
*Professor of English; Vice President for Academic Affairs and Dean of Faculty, 1982-*

## Emeriti

ROBERT EDWARD LEE STRIDER II, M.A. '57, Litt.D. '79, Ph.D., 1957-79  
*Professor of English, Emeritus; President, Emeritus*

DENNISON BANCROFT, M.A. '59, Ph.D., 1959-74  
*Professor of Physics, Emeritus*

CLIFFORD JOSEPH BERSCHNEIDER, M.A. '78, M.A., 1949-85  
*Professor of History, Emeritus*

ARCHILLE HENRI BIRON, M.A. '74, A.M., 1950-77  
*Professor of Modern Languages, Emeritus*

MARJORIE DUFFY BITHER, M.A. '76, M.A., 1935-41, 1957-79  
*Professor of Physical Education, Emerita*

PHILIP STEWART BITHER '30, M.A. '73, M.A., 1932-74  
*Professor of Modern Languages, Emeritus*

JAMES MORTON CARPENTER, M.A. '54, Ph.D., 1950-81  
*Jetté Professor of Art, Emeritus*

RICHARD CARY, M.A. '62, Ph.D., 1952-75  
*Professor of English, Emeritus*

WILFRED JAMES COMBELLACK '37, M.A. '48, Ph.D., 1948-80  
*Professor of Mathematics, Emeritus*

ALICE PATTEE COMPARETTI, M.A. '61, Ph.D., 1936-73  
*Professor of English, Emerita*

ERMANNIO FRANCIS COMPARETTI, M.A. '53, Ph.D., 1941-74  
*Professor of Music, Emeritus*

FLORENCE ELIZABETH LIBBEY CRAWFORD '29, M.S., 1948-71  
*Associate Professor of Library Science, Emerita*

RICHARD DYER, B.A., 1950-83  
*Assistant to the President, Emeritus*

JACK DONALD FONER, M.A. '73, Ph.D., February 1969-74; Visiting Scholar in  
Residence, September-December 1983, September-December 1985  
*Professor of History, Emeritus*

JAMES MACKINNON GILLESPIE, M.A. '69, Ph.D., 1951-84  
*Professor of Psychology, Emeritus; Associate Dean of Students, Emeritus*

ERNEST PARKER JOHNSON<sup>1</sup>, M.A. '55, Ph.D., 1955-78  
*Dana Professor of Psychology, Emeritus*

- EARL AUSTIN JUNGHANS, M.S., 1960-72  
*Associate Professor of Mathematics, Emeritus*
- RICHARD KNOWLTON KELLENBERGER, M.A. '60, Ph.D., 1946-76  
*Professor of Modern Languages, Emeritus*
- DONALDSON KOONS, M.A. '51, Ph.D., 1947-82, January 1984, 1985, 1986  
*Dana Professor of Geology, Emeritus*
- PAUL EWERS MACHEMER, M.A. '67, Ph.D., 1955-83  
*Merrill Professor of Chemistry, Emeritus*
- E. JANET MARCHANT, M.A., 1940-65  
*Associate Professor of Physical Education, Emerita*
- LEONARD WITHINGTON MAYO '22, M.A. '57, D.S.S. '42, 1966-71  
*Professor of Human Development, Emeritus*
- EARLE ALTON MCKEEN '29, M.Ed., 1955-71  
*Associate Professor of Education, Emeritus*
- WILLIAM BLACKALL MILLER, M.A. '74, Ph.D., 1956-82, February-June 1984  
*Professor of Art, Emeritus*
- GEORGE THOMAS NICKERSON '24, M.A., 1948-67  
*Dean of Men, Emeritus*
- LUELLA FREDERICKA NORWOOD, M.A. '52, Ph.D., February 1943-53  
*Professor of English, Emerita*
- CLIFFORD HAZELDINE OSBORNE, B.A., D.D. '49, 1949-65  
*Professor of Religion, Emeritus; Chaplain, Emeritus*
- FRANCIS HOWARD PARKER, M.A. '71, Ph.D., 1971-86  
*Dana Professor of Philosophy, Emeritus*
- PAUL POWERS PEREZ, M.A. '73, Ph.D., February 1960-85  
*Professor of Psychology, Emeritus*
- ROBERT WHITE PULLEN '41, M.A. '59, Ph.D., 1945-81  
*Professor of Economics, Emeritus; Administrative Vice President, Emeritus*
- WENDELL AUGUSTUS RAY, M.A. '54, Ph.D., 1938-76  
*Professor of Chemistry, Emeritus*
- PETER JOSEPH RÉ, M.A. '65, M.A., 1951-84  
*Professor of Music, Emeritus*
- EVANS BURTON REID, M.A. '58, Ph.D., 1954-78  
*Merrill Professor of Chemistry, Emeritus*
- ALLAN CHARLES SCOTT, M.A. '51, Ph.D., 1951-73, January 1984  
*Dana Professor of Biology, Emeritus*
- FRANCES FENN SEAMAN, B.Mus., 1957-68  
*Dean of Students, Emerita*
- ARTHUR WILLIAM SEEPE, M.C.S., 1937-January 1972  
*Associate Professor of Administrative Science, Emeritus; Treasurer, Emeritus*

GORDON WINSLOW SMITH, M.A. '71, M.A., 1930-72  
*Professor of Modern Languages, Emeritus*

NORMAN SWASEY SMITH, M.Ed., 1945-68  
*Associate Professor of Education, Emeritus*

IRVING DAVID SUSS, M.A. '73, Ph.D., 1957-80  
*Professor of English, Emeritus*

JOHN HALE SUTHERLAND, M.A. '70, Ph.D., 1951-86  
*Professor of English, Emeritus*

ROBERT LEE TERRY, M.A. '67, Ph.D., 1952-83  
*Professor of Biology, Emeritus*

EDWARD HILL TURNER, A.B., M.A. '82, L.H.D. '73, 1953-78  
*Vice President for Development, Emeritus*

RALPH SAMUEL WILLIAMS '35, M.A. '73, M.B.A., L.H.D. '72, 1947-73  
*Wadsworth Professor of Administrative Science, Emeritus; Administrative Vice President, Emeritus*

LUCILLE PINETTE ZUKOWSKI '37, M.A. '71, M.A., 1943-82  
*Professor of Mathematics, Emerita*

WALTER HENRY ZUKOWSKI, M.A. '65, Ph.D., 1952-82  
*Wadsworth Professor of Administrative Science, Emeritus*

<sup>1</sup>Died March 7, 1986.

## Faculty

The faculty is arranged alphabetically. In parentheses are listed colleges and universities from which earned degrees have been received.

JAMES JOHN AIROZO, Ph.D. (St. John's Seminary, Boston College, Michigan), 1984-86  
*Assistant Professor of Modern Languages (Spanish)*

DEBRA ANN AITKEN, M.Ed. (Frostburg State [Maryland], Plymouth State), 1985-  
*Adjunct Assistant Professor of Physical Education*

DONALD BRUCE ALLEN, M.A. '82, Ph.D. (Fresno State, Illinois), 1967-  
*Professor of Geology*

JONATHAN DWIGHT ALLEN, B.A. (Case Western Reserve), 1978-86  
*Faculty Member without Rank: Director of Computer Services*

JAMES C. ANDERSON, Ph.D. (Syracuse), 1985-  
*Visiting Associate Professor of Philosophy*

ANTHONY ALFRED ANEMONE, JR., Ph.D. (Columbia, California at Berkeley), 1985-  
*Assistant Professor of Modern Languages (Russian)*

DOUGLAS NELSON ARCHIBALD, M.A. '73, Ph.D.<sup>1</sup> (Dartmouth, Michigan), 1973-  
*Professor of English; Vice President for Academic Affairs and Dean of Faculty; Editor of Colby Library Quarterly*

SAMUEL LEIGH ATMORE, M.S. (Pennsylvania State, Simmons), 1977-  
*Faculty Member without Rank: Audiovisual Librarian*

- TOM C. AUSTIN, B.S. (Maine), 1986-  
*Adjunct Associate Professor of Physical Education*
- CAROL HOFFER BASSETT, M.A.<sup>6, 7</sup> (South Dakota), 1974-  
*Assistant Professor of Mathematics*
- CHARLES WALKER BASSETT, M.A. '80, Ph.D. (South Dakota, Kansas), 1969-  
*Dana Professor of American Studies and English*
- ROBERT MARK BENBOW, M.A. '62, Ph.D.<sup>5</sup> (University of Washington, Yale), 1950-  
*Roberts Professor of English Literature*
- MIRIAM FRANCES BENNETT, M.A. '73, Ph.D. (Carleton, Mount Holyoke, Northwestern), 1973-  
*William R. Kenan, Jr., Professor of Biology*
- JOEL CHARLES BERNARD, Ph.D.<sup>2, 8</sup> (Cornell, Yale), 1980-  
*Assistant Professor of History*
- PARKER JOY BEVERAGE, M.A. (Dartmouth, Stanford), 1985-  
*Faculty Member without Rank: Dean of Admissions and Financial Aid*
- ERIC ALEXANDER GRINDLAY BINNIE, Ph.D. (Strathclyde [Scotland], McMaster [Canada], Toronto [Canada]), 1984-  
*Associate Professor of English and Performing Arts*
- MICHAEL LAWRENCE BIRKEL, Ph.D. (Wilmington [Ohio], Earlham, Harvard), 1984-86  
*Assistant Professor of Religion*
- PAMELA ANN BLAKE, Ph.D. (St. Lawrence, Cornell), 1985-  
*Assistant Professor of Government*
- ALAIN A. BONORA, Doctorat d'état (Sorbonne), February-June 1986  
*Visiting Professor of Modern Languages (French)*
- ELIZABETH HOWARD BOWEN '81, M.A. (Colby, Brown), September 1986-January 1987  
*Visiting Instructor in Modern Languages (French); Director of Colby in Dijon Program*
- ROGER WILSON BOWEN, Ph.D. (Wabash, Michigan, British Columbia), 1978-  
*Associate Professor of Government*
- PATRICK BRANCACCIO, M.A. '79, Ph.D. (Brooklyn College, Ohio State, Rutgers), 1963-  
*Professor of English*
- MORTON AARON BRODY, J.D.<sup>7</sup> (Bates, Chicago), 1984-  
*Visiting Professor of Government*
- DALLAS LASALLE BROWNE, Ph.D. (Northeastern Illinois, Illinois at Urbana), 1982-86  
*Assistant Professor of Sociology and of Black Studies*
- JOHN HAGAN BUBAR '68, M.B.A., M.S.<sup>1</sup> (Colby, New Hampshire, Southern California), 1981-86  
*Assistant Professor of Administrative Science*

JEAN D. BUNDY, M.A. '63, Ph.D.<sup>3</sup> (Washington State, Wisconsin), 1963-  
*Dana Professor of French Literature*

JEANNE BURNETTE, M.L.S.<sup>12</sup> (Maine), January 1979-  
*Faculty Member without Rank: Cataloguer, Library*

ROBERT ALAN BURNS, Ph.D.<sup>7</sup> (Maine, New Brunswick), 1985-  
*Visiting Assistant Professor of English*

DEBRA CAMPBELL, Ph.D.<sup>6</sup> (Mt. Holyoke, St. Michael's [Toronto], Boston University),  
January-June 1983; 1986-  
*Dana Faculty Fellow and Assistant Professor of Religion*

MURRAY FRANCIS CAMPBELL, Ph.D. (Pennsylvania State, Cornell), 1980-  
*Associate Professor of Physics*

FRANCISCO ANTONIO CAUZ, M.A. '77, Ph.D. (Villanova, Middlebury, Rutgers), 1957-  
*Professor of Modern Languages (Spanish); Resident Director of Colby in Salamanca  
Program, 1984-86*

ARTHUR KINGSLEY CHAMPLIN, Ph.D. (Williams, Rochester), 1971-  
*Associate Professor of Biology*

CATHERINE HERLIHY COCKS, M.A.L.S.<sup>13</sup> (Lake Erie, Michigan), 1980-  
*Faculty Member without Rank: Head Cataloguer, Library*

J. FRASER COCKS III, Ph.D. (Occidental, Michigan), 1975-  
*Assistant Professor; Special Collections Librarian; Resident Director of Colby in Cork  
Program, 1985-86*

DANIEL HARRY COHEN '75, Ph.D. (Colby, Indiana), 1983-  
*Assistant Professor of Philosophy*

FREDERICK RUSSELL COLE, Ph.D. (Massachusetts, Illinois), 1977-  
*Associate Professor of Biology*

SUSAN WESTERBERG COLE, M.S. (Knox, Illinois), 1978-  
*Faculty Member without Rank: Science Librarian*

GEORGE LEIDIGH COLEMAN II, M.A. (Cornell, Kansas), 1963-  
*Associate Professor; Registrar*

ANTHONY J. CORRADO, JR., M.A. (Catholic University), February 1986-  
*Visiting Instructor in Government*

WILLIAM R. COTTER, J.D. (Harvard), 1979-  
*Professor of Government; President*

EILEEN MARY CURRAN, M.A. '73, Ph.D.<sup>5</sup> (Cornell, Cambridge, Cornell), 1958-  
*Professor of English*

CYRIL K. DADDIEH, Ph.D. (Ripon, Carleton, Dalhousie), 1986-  
*Visiting Assistant Professor of Black Studies and of Government*

ABOL HASSAN DANESH, Ph.D. (Tehran, California at Riverside), 1985-  
*Visiting Assistant Professor of Sociology*

GENE BARTHOLOMEW DELORENZO '75 (Colby), 1977-  
*Adjunct Assistant Professor of Physical Education*

- VIRGINIA JONAS DERSCH, Ph.D. (Goucher, Johns Hopkins), 1985-86  
*Visiting Assistant Professor of Sociology*
- ANN FRANCES DE VITO, M.A.<sup>11</sup> (Washington at Seattle, Toronto), 1985-86  
*Taylor Lecturer in Classics*
- SUELLEN DIACONOFF, Ph.D. (Willamette, Indiana), 1986-  
*Assistant Professor of Modern Languages (French)*
- PRISCILLA ALLEN DOEL, M.A. (Colby Junior, New York University), 1965-  
*Associate Professor of Modern Languages (Portuguese and Spanish)*
- WILLIAM EUGENE DOLL, Ph.D. (Montana State, Wisconsin at Madison), 1983-  
*Assistant Professor of Geology*
- JOHN MINOT DUDLEY, M.A. '86, Ph.D.<sup>1</sup> (Massachusetts Institute of Technology, California at Berkeley), 1964-  
*Professor of Physics*
- THOMAS WILLIAM EASTON, M.A. '85, Ph.D. (Maine, Brown), 1960-  
*Professor of Biology*
- BEATRICE ELIZABETH EDWARDS, Ph.D.<sup>2, 3</sup> (Georgetown, Texas, American), 1981-  
*Assistant Professor of Sociology*
- ROBERT LAMBTON FARNSWORTH, M.F.A.<sup>7</sup> (Brown, Columbia), 1983-  
*Visiting Assistant Professor of English*
- SIDNEY WEYMOUTH FARR '55, M.A., M.B.A. (Colby, Maine), 1960-  
*Associate Professor; Alumni Secretary; Secretary of the Corporation*
- LEE NATHAN FEIGON, Ph.D. (California at Berkeley, Chicago, Wisconsin), 1976-  
*Associate Professor of History*
- FRANK ALEXANDER FEKETE, Ph.D. (Rhode Island at Kingston, Rutgers), 1983-  
*Assistant Professor of Biology*
- CHARLES ANTHONY FERGUSON, Ph.D. (Oberlin, Ohio State), 1967-  
*Associate Professor of Modern Languages (French, Italian)*
- GUY THEOPHILE FILOSOF, M.A. '81, Ph.D. (Rollins, Middlebury, Rochester), 1969-  
*Professor of Modern Languages (French)*
- DAVID WARREN FINDLAY, M.S. (Acadia [Canada], Purdue), 1985-  
*Instructor in Economics*
- DAVID H. FIRMAGE, Ph.D. (Brigham Young, Montana), February 1975-  
*Associate Professor of Biology*
- ELIZABETH ANN FISHER, Ph.D. (Wheaton, University of Colorado, Case Western Reserve), 1985-86  
*Visiting Assistant Professor of Administrative Science*
- ELIZABETH NELL FLINT, Ph.D. (University of California at Los Angeles), 1985-86  
*Visiting Assistant Professor of Biology*
- BRUCE EDWARD FOWLES, Ph.D. (Brown, California at Berkeley), 1967-  
*Associate Professor of Biology*
- LINDA KIYO FUJIE, M.Phil. (California at Berkeley, Columbia), 1986-  
*Ziskind Lecturer in Music*

FREDERICK H. GAUTSCHI III, M.B.A., Ph.D. (U.S. Naval Academy, California State, California at Berkeley), 1981-86  
*Assistant Professor of Administrative Science*

FREDERICK ARTHUR GEIB, M.A. '75, Ph.D. (New Hampshire, Brown, Syracuse), 1955-  
*Professor of Sociology*

HENRY ALBERT GEMERY, M.A. '77, M.B.A., Ph.D. (Southern Connecticut, Harvard, Pennsylvania), 1961-  
*Dana Professor of Economics*

REBECCA LYNN GERBER, Ph.D. (California State at San Jose, California at Santa Barbara), 1985-  
*Assistant Professor of Music*

ROBERT A. GILLESPIE, Ph.D.<sup>7</sup> (Cornell, Iowa), 1971-77, 1982-  
*Associate Professor of English; College Editor*

BRYAN RANDOLPH GILLIAM, Ph.D. (Cincinnati, Harvard), 1983-86  
*Assistant Professor of Music*

KEMP FREDERICK GILLUM, M.A. '65, Ph.D. (Illinois, Wisconsin), 1948-  
*Professor of History*

JOHN GORDON GIMBEL, Ph.D.<sup>1</sup> (Andrews, Western Michigan), 1982-  
*Assistant Professor of Mathematics*

JAVIER GONZALEZ-ALONSO, M.A. (University of Washington), 1985-  
*Instructor in Modern Languages (Spanish)*

MICHEL GOULET, M.Ed.<sup>3</sup> (New Hampshire, Ohio), 1977-  
*Adjunct Assistant Professor of Physical Education*

HUGH JAMES GOURLEY III, A.B. (Brown), April 1966-  
*Faculty Member without Rank: Director of the Museum of Art*

DOUGLAS EDWARD GREEN, Ph.D. (Amherst, Brown), 1985-86  
*Visiting Assistant Professor of English*

ARTHUR DAVID GREENSPAN, Ph.D. (Columbia, Indiana), 1978-  
*Associate Professor of Modern Languages (French)*

CHARLES L. GRIM III, M.S. (Case Western Reserve, Purdue), 1985-  
*Instructor in Economics*

KRISTIN M. HALLBERG, Ph.D.<sup>1, 2</sup> (Macalester, Wisconsin), 1982-  
*Assistant Professor of Economics*

JONATHAN FRANCIS HALLSTROM, Ph.D. (Oregon State, Iowa), 1984-  
*Assistant Professor of Music*

NATALIE BETH HARRIS, Ph.D. (Indiana), 1978-80, 1982-85, 1986-  
*Visiting Assistant Professor of English*

PETER BROMWELL HARRIS, Ph.D. (Middlebury, Indiana), 1974-  
*Associate Professor of English*

CHARLES STEWART HAUSS, Ph.D. (Oberlin, Michigan), 1975-  
*Associate Professor of Government*

- BEVERLY GALE HAWK, M.A. (John Carroll University, Howard, Wisconsin), 1985-  
*Instructor in Government*
- HOMER T. HAYSLETT, JR., Ph.D. (Bridgewater, Virginia Polytechnic, Dartmouth), 1962-  
*Associate Professor of Mathematics*
- ADEL VERNA HEINRICH, A.Mus.D.<sup>1, 7</sup> (Flora Stone Mather, Union Theological, Wisconsin), 1964-  
*Associate Professor of Music; Director of Chapel Music*
- CAROLYN HIGBIE, M.A. (Wellesley, Oxford, Princeton), 1986-  
*Taylor Lecturer in Classics*
- JAN STAFFORD HOGENDORN, M.A. '76, Ph.D.<sup>4</sup> (Wesleyan, London School of Economics), 1963-64, 1966-  
*The Grossman Professor of Economics*
- HENRY HOLLAND, M.A. '66, Ph.D. (Maine, Harvard, Madrid), 1952-  
*Professor of Modern Languages (Spanish); Resident Director of Colby in Cuernavaca Program*
- JOHN MICHAEL HOSACK, Ph.D. (California Institute of Technology, California at Berkeley), 1981-  
*Assistant Professor of Mathematics*
- YEAGER HUDSON, M.A. '77, Ph.D. (Millsaps, Boston University), 1959-  
*Professor of Philosophy*
- JANE HARLOW HUNTER, Ph.D.<sup>2, 8</sup> (Yale), 1980-  
*Assistant Professor of History*
- HAROLD ALVIN JACOBSON, M.A. '77, Ed.D. (Bowling Green, Harvard), 1968-  
*Professor of Education*
- PATRICE FRANKO JONES, M.A. (Bucknell, Notre Dame), 1986-  
*Visiting Instructor in Economics*
- RHETT S. JONES, Ph.D. (Illinois, Connecticut, Brown), February-June 1986  
*Visiting Professor of History and of Black Studies*
- ROBERT HURD KANY, Ph.D. (Michigan, Pennsylvania State), February 1970-  
*Associate Professor of History; Director of Division of Special Programs*
- TONI DINSMORE KATZ, M.S. (Maine at Portland, Simmons), 1983-  
*Faculty Member without Rank: Reference Librarian*
- DAVID L. KEENAN, M.A. (Dartmouth, Harvard), 1985-  
*Instructor in East Asian Studies (Chinese Language and Literature)*
- ROBERT LAURENS KELLY, Ph.D.<sup>7</sup> (Cornell, New Mexico, Michigan), February 1986-  
*Visiting Assistant Professor of Sociology*
- EDWIN JAMES KENNEY, JR., M.A. '82, Ph.D. (Hamilton, Cornell), 1968-  
*Professor of English*
- SUSAN MCILVAINE KENNEY, M.A. '86, Ph.D.<sup>7</sup> (Northwestern, Cornell), 1968-  
*Professor of English*



- DIANE SKOWBO KIERSTEAD, Ph.D. (Miami [Ohio], Brandeis), 1974-  
*Associate Professor of Psychology*
- YVONNE RICHMOND KNIGHT '55, M.A. '79, M.B.A. (Colby, Cornell), 1958-  
*Professor of Administrative Science*
- DOROTHY MARIE KOONCE, M.A. '80, Ph.D. (Cornell, Pennsylvania), 1963-  
*Professor of Classics*
- HOWARD LEE KOONCE, M.A. '80, Ph.D.<sup>3</sup> (Dartmouth, Pennsylvania), 1963-  
*Professor of English*
- DONALDSON KOONS, M.A. '51, Ph.D. (Columbia), 1947-82, January 1984, 1985,  
1986  
*Professor of Geology, Emeritus; Visiting Professor of Geology*
- HUBERT CHRISTIAN KUETER, Ph.D. (Valparaiso, Michigan), 1965-  
*Associate Professor of Modern Languages (German); Resident Director of Colby in  
Lübeck Program, Semester II, 1986*
- DAVID COREY KURTZ, Ph.D. (Purdue, Massachusetts Institute of Technology, Wake  
Forest, Duke), 1984-  
*Associate Professor of Mathematics*
- ROBERT ARTHUR KURTZ, Ph.D. (Syracuse, Princeton), 1984-86  
*Assistant Professor of Mathematics*
- JAY BRIAN LABOV, Ph.D.<sup>1</sup> (Miami [Florida], Rhode Island), 1979-  
*Associate Professor of Biology*
- CHARLES RICHARD LAKIN, M.L.S. (U.S. Naval Academy, Iowa), 1985-  
*Faculty Member without Rank: Reference Librarian*
- KENNETH D. LANE, D.A. (Maine, Idaho State), 1982-  
*Assistant Professor of Mathematics*
- CAMILLE FRANCOISE LAPARRA, Ph.D.<sup>1</sup> (Nanterre [Paris], Wisconsin at Madison),  
1982-86  
*Assistant Professor of Modern Languages (French)*
- SCOTT W. LAUGHINGHOUSE, M.A. (Middlebury, Edinboro [Pa.]), 1986-  
*Adjunct Instructor in Physical Education*
- GARRY MARTIN LEONARD, Ph.D. (Brown, Florida), 1985-  
*Visiting Assistant Professor of English*
- LEWIS FREDERICK LESTER, Ph.D. (City University of New York, Connecticut), 1970-  
*Associate Professor of Psychology*
- CAROL B. LIBBY, Ph.D. (Pennsylvania State), 1985-86  
*Visiting Assistant Professor of Chemistry*
- RICHARD DANIEL LIBBY '68, Ph.D. (Colby, Pennsylvania State), 1985-  
*Assistant Professor of Chemistry*
- MARGRIT LICHTERFELD, Ph.D. (Cornell, Harvard), 1985-  
*Assistant Professor of Modern Languages (German)*
- JOHN ROBERT LIKINS, M.L.S. (Colgate, Simmons), November 1984-  
*Faculty Member without Rank: Cataloguer/Reference Librarian*

- THOMAS RICHMOND WILLIS LONGSTAFF, M.A. '84, Ph.D. (Maine, Bangor Theological, Columbia), 1969-  
*Professor of Philosophy and Religion*
- DAVID MARTIN LUBIN, Ph.D.<sup>2</sup> (Ohio State, Yale), 1983-  
*Assistant Professor of Art and of American Studies*
- ANN SAX MABBOTT, M.A.<sup>7</sup> (Wooster, Wisconsin at Madison), 1983-  
*Visiting Instructor in Modern Languages (German)*
- GARY ALAN MABBOTT, Ph.D. (Wooster, Wisconsin), 1983-  
*Assistant Professor of Chemistry*
- ROBERT LOCHLIN MACDONALD, M.Ed. (Maine), 1985-  
*Adjunct Instructor in Physical Education*
- PAUL STUART MACHLIN, Ph.D. (Yale, California at Berkeley), 1974-  
*Associate Professor of Music*
- COLIN EDWARD MACKAY, M.A. '73, Ph.D. (Brown), 1956-  
*Professor of English*
- GEORGE CALVIN MACKENZIE, M.A. '86, Ph.D. (Bowdoin, Tufts, Harvard), 1978-  
*Professor of Government; Vice President for Development and Alumni Relations*
- GEORGE DOUGLAS MAIER, M.A. '83, Ph.D.<sup>1</sup> (Cornell College, Iowa State), 1965-  
*Professor of Chemistry*
- L. SANDY MAISEL, M.A. '83, Ph.D.<sup>4</sup> (Harvard, Columbia), 1971-  
*Professor of Government*
- PHYLLIS FRANCES MANNOCCHI, Ph.D. (Pennsylvania, Columbia), 1977-  
*Associate Professor of English*
- FRANCIS R. MARINER, Ph.D. (Bowdoin, Johns Hopkins), February-June 1986  
*Visiting Assistant Professor of Modern Languages (French)*
- MICHAEL ANDREW MARLAIS, Ph.D. (St. Mary's of California, California at Hayward, Michigan), 1983-  
*Assistant Professor of Art*
- HARRIETT MATTHEWS, M.A. '84, M.F.A.<sup>6</sup> (Sullins Junior, Georgia), 1966-  
*Professor of Art*
- PAULA DIANE MATTHEWS, M.A. (Oberlin, Iowa), 1983-86  
*Faculty Member without Rank: Art and Music Librarian*
- ALBERT ANTHONY MAVRINAC, M.A. '58, Ph.D.<sup>1</sup> (Pittsburgh, Harvard), 1958-  
*Dana Professor of Government*
- MARILYN SWEENEY MAVRINAC, M.A.<sup>4, 7</sup> (Wellesley, Columbia), 1963-64, 1967-68, 1969-  
*Associate Professor of Education and of History*
- ROBERT PAUL MCARTHUR, M.A. '83, Ph.D. (Villanova, Temple), 1972-  
*Professor of Philosophy; Vice President for Academic Affairs and Dean of Faculty, 1985-86; Resident Director of Colby in Cork Program, 1986-87*
- MARK ANDREW MCAULIFFE '79, M.S.M.<sup>7</sup> (Colby, Massachusetts Institute of Technology), September-December 1985  
*Visiting Assistant Professor of Administrative Science*

- DEBORAH E. MCDOWELL, Ph.D.<sup>4, 5</sup> (Tuskegee, Purdue), 1979-  
*Associate Professor of English*
- RICHARD JOHN MCGEE, M.S. (Maine), 1967-  
*Associate Professor of Physical Education and Director of Athletics*
- JAMES RICHARD MCINTYRE, Ph.D. (Michigan State), 1976-  
*Associate Professor of Modern Languages (German); Director of Career Services*
- SEAMUS PATRICK MCMAHON, B.A.<sup>14</sup> (University College in Dublin), 1985-86  
*Faculty Member without Rank: Cataloguer/Reference Librarian*
- CHARLES ABBOTT MEADER, M.F.A.<sup>7</sup> (Dartmouth, Colorado), 1961-1974, 1983-  
*Visiting Associate Professor of Art*
- JAMES WILLIAM MEEHAN, JR., M.A. '82, Ph.D. (Saint Vincent, Boston College),  
1973-  
*Professor of Economics*
- BENOÎT MELANÇON, M.A. (University of Montreal), September-December 1984,  
1985-  
*Visiting Instructor in Modern Languages (French); Resident Director of Colby in Caen  
Program, 1985-87*
- ROGER NATHAN METZ, M.A. '85, Ph.D. (Oberlin, Cornell), 1968-  
*Professor of Physics*
- DAVID HORTON MILLS '57, M.A.<sup>7</sup> (Colby, Illinois, Harvard), 1980-81, 1984-  
*Visiting Instructor in English*
- CHRISTINE ELIZABETH MITCHELL-WENTZEL, M.A. (Massachusetts, Michigan), 1973-  
*Adjunct Associate Professor of Performing Arts (Dance)*
- JOHN S. MIZNER, M.A. '80, Ph.D. (Antioch, Pennsylvania), 1963-  
*Professor of English*
- MARGARET HESSLER MOORE '83, M.S. (Colby, Virginia Polytechnic), 1985-  
*Visiting Instructor in Mathematics*
- THOMAS JACK MORRIONE '65, M.A. '85, Ph.D.<sup>1</sup> (Colby, New Hampshire, Brigham  
Young), 1971-  
*Professor of Sociology*
- FRED BAKER MOSELEY, Ph.D.<sup>2</sup> (Stanford, Massachusetts at Amherst), 1982-  
*Dana Faculty Fellow and Assistant Professor of Economics*
- JANE MERYL MOSS, Ph.D. (Wellesley, Yale), 1979-  
*Associate Professor of Modern Languages (French)*
- RICHARD JAMES MOSS, Ph.D. (Michigan State), 1978-  
*Associate Professor of History*
- SUANNE WILSON MUEHLNER, M.L.S., M.B.A. (California at Berkeley, Simmons,  
Northeastern), 1981-  
*Faculty Member without Rank: Director of the Colby Libraries*
- KEVIN E. NAUGHTON, B.A. (Middlebury), 1986-  
*Adjunct Instructor in Physical Education*
- BARBARA KUCZUN NELSON '68, M.A.<sup>7</sup> (Colby, Middlebury), 1978-  
*Visiting Instructor in Modern Languages (Spanish)*

- CARL E. NELSON, M.Ed. (Boston University, Maine), November 1967-  
*Adjunct Associate Professor of Physical Education; Director of Health Services*
- ROBERT EDWARD NELSON, Ph.D.<sup>2</sup> (San Francisco State, University of Washington), 1982-  
*John D. MacArthur Assistant Professor of Geology*
- STANLEY A. NICHOLSON, Ph.D. (Montana, Duke), 1981-  
*Professor of Economics; Administrative Vice President*
- PETER WEST NUTTING, Ph.D. (Amherst, California at Berkeley), 1985-  
*Associate Professor of Modern Languages (German)*
- JORGE OLIVARES, Ph.D. (Miami [Florida], Michigan), 1982-  
*Associate Professor of Modern Languages (Spanish)*
- WILLIAM B. O'NEIL, Ph.D.<sup>1, 2</sup> (Amherst, Wisconsin), 1982-  
*Assistant Professor of Economics*
- PATRICIA ARNOLD ONION, Ph.D.<sup>7</sup> (Connecticut College, Harvard), 1974-  
*Associate Professor of English*
- WILLIAM HEARNE PARDEE, M.F.A.<sup>10</sup> (Yale, Columbia), 1982-83, 1984-86  
*Assistant Professor of Art*
- FRANCES M. PARKER, M.L.S. (Harpur, Columbia), August 1974-  
*Faculty Member without Rank: Assistant Director for Public Services, Library*
- FRANCIS HOWARD PARKER, M.A. '71, Ph.D. (Evansville, Indiana, Harvard), 1971-86  
*Dana Professor of Philosophy*
- HAROLD RICHARD PESTANA, M.A. '85, Ph.D. (California, Iowa), 1959-  
*Professor of Geology*
- ROBERT PFEIFFER, M.Ed. (Bowdoin, New Hampshire), 1985-  
*Adjunct Assistant Professor of Physical Education and of Education*
- RAYMOND B. PHILLIPS, Ph.D. (Pomona, California at Berkeley), 1984-  
*Assistant Professor of Biology; Coordinator of Academic Computing*
- DEBORAH ANN PLUCK, M.ED.<sup>4</sup> (Slippery Rock, Maine), 1979-  
*Adjunct Assistant Professor of Physical Education*
- JOHN ROBERTS PORTER, M.A.<sup>11</sup> (Washington at Seattle, Toronto [Canada]), 1985-86  
*Taylor Lecturer in Classics*
- LINETTE ANN POYER, Ph.D. (Bucknell, Michigan at Ann Arbor), 1985-  
*Assistant Professor of Anthropology*
- TAMAE KOBAYASHI PRINDLE, Ph.D. (S.U.N.Y. at Binghamton, Washington State, Cornell), 1985-  
*Dana Faculty Fellow and Assistant Professor of East Asian Studies (Japanese Language and Literature)*
- ROGER L. PTAK, Ph.D. (University of Detroit, Cornell), 1985-86  
*Visiting Professor of Physics*
- MARILYN RUTH PUKKILA, M.A., M.S.L.S. (Michigan at Ann Arbor, Aberystwyth [Wales], Columbia), March 1984-  
*Faculty Member without Rank: Reference Librarian*

- VIVIAN KURTH PYLE, M.A.<sup>7</sup> (Princeton, California at Berkeley), 1985-  
*Visiting Instructor in Modern Languages (Russian)*
- F. THOMAS RADULSKI, M.P.A. (New Hampshire), 1985-86  
*Adjunct Assistant Professor of Physical Education*
- STEPHANIE P. RALPH, M.L.S.<sup>7</sup> (Smith, Maryland), February-June 1986  
*Faculty Member without Rank: Reference Librarian*
- HAROLD BRADFORD RAYMOND, M.A. '68, Ph.D. (Black Mountain, Harvard), 1952-  
*Professor of History*
- HAROLD CHRISTIAN RAYMOND, B.S. (Virginia), April 1983-  
*Adjunct Assistant Professor of Physical Education*
- LEONARD S. REICH, Ph.D. (Bucknell, Johns Hopkins), February 1986-  
*Associate Professor of Administrative Science*
- DOUGLAS EDWARD REINHARDT '71, M.B.A. (Colby, Babson), 1972-  
*Faculty Member without Rank: Treasurer*
- DOROTHY SWAN REUMAN, M.A.<sup>3, 7</sup> (Wooster, Wisconsin), 1961-64, 1966-  
*Associate Professor of Music*
- ROBERT EVERETT REUMAN, M.A. '69, Ph.D.<sup>1</sup> (Middlebury, Pennsylvania), 1956-  
*Professor of Philosophy; Resident Director of Intercollegiate Beijing Educational Program, Semester I, 1985-86*
- ROSS ANTHONY REYNOLDS, Ph.D. (Michigan State, Oregon), 1983-  
*Assistant Professor of Physics*
- NICHOLAS LEROY ROHRMAN, M.A. '77, Ph.D. (Butler, Miami [Ohio], Indiana), 1977-  
*Professor of Psychology*
- LORNA ROOKS-HUGHES, M.A.<sup>7</sup> (McGill, University College in Dublin), 1985-  
*Visiting Instructor in English*
- SONYA ORLEANS ROSE, Ph.D. (Antioch, Northwestern), 1977-  
*Associate Professor; Director of Freshman Advising*
- JONAS OETTINGER ROSENTHAL, M.A. '83, M.A.<sup>2</sup> (Swarthmore, North Carolina), 1957-  
*Professor of Sociology*
- DIANNE FALLON SADOFF, Ph.D.<sup>9</sup> (Oregon, Rochester), 1980-81, 1982-  
*Associate Professor of English*
- IRA SADOFF, M.F.A.<sup>9</sup> (Cornell, Oregon), 1977-  
*Associate Professor of English*
- JEAN MARIE SANBORN, Ph.D.<sup>7</sup> (Mount Holyoke, Harvard, Union for Experimenting Colleges and Universities), 1976-  
*Associate Professor of English*
- JOHN SANTOS, M.S. (Knox, Illinois), 1985-  
*Instructor in Economics*
- WAYNE SCHNEIDER, Ph.D. (Colorado, Harvard, Cornell), 1986-  
*Visiting Assistant Professor of Music*
- JANICE ARMO SEITZINGER, M.A. (New York at Stony Brook, Boston College), 1974-  
*Faculty Member without Rank: Dean of Students*

- RICHARD CRITTENDEN SEWELL, M.A., 1974-  
*Adjunct Associate Professor of Performing Arts; Director of Powder and Wig*
- THOMAS WAYNE SHATTUCK, Ph.D. (Lake Forest, California at Berkeley), 1976-  
*Associate Professor of Chemistry*
- CHRISTOPHER SHIELDS, M.A. (Bowling Green, Cornell), 1986-  
*Instructor in Philosophy*
- DAVID LAWRENCE SIMON, Ph.D. (Boston University, London), 1981-  
*Jetté Professor of Art*
- SONIA CHALIF SIMON, Ph.D.<sup>7</sup> (Boston University), 1982-  
*Assistant Professor of Art*
- NIKKY-GUNIDER KAURN SINGH, M.A. (Wellesley, Pennsylvania), 1986-  
*Instructor in Philosophy*
- DALE JOHN SKRIEN, Ph.D. (Saint Olaf, Washington), 1980-  
*Assistant Professor of Mathematics*
- DONALD BRIDGHAM SMALL, Ph.D.<sup>1, 2</sup> (Middlebury, Kansas, Connecticut), 1968-  
*Associate Professor of Mathematics*
- DUANE RICHARD SMITH, M.A. (St. John's, Minnesota), 1986-  
*Visiting Assistant Professor of Classics*
- EARL HAROLD SMITH, B.A. (Maine), 1962-  
*Associate Professor; Dean of the College*
- WAYNE LEE SMITH, M.A. '83, Ph.D. (Hartwick, Pennsylvania State), 1967-  
*Professor of Chemistry*
- DEBORAH ANNE SOIFER, Ph.D.<sup>7</sup> (George Washington, Chicago), 1979-81, 1984-86  
*Visiting Assistant Professor of Philosophy and Religion*
- LEANNE H. STAR, M.A.<sup>7</sup> (California at Berkeley, Chicago), 1978-80, 1981-83,  
1984-86  
*Visiting Instructor in English*
- JOHN HALE SUTHERLAND, M.A. '70, Ph.D. (Swarthmore, Pennsylvania), 1951-86  
*Professor of English; Editor of Colby Library Quarterly*
- STUART GLEN SWAIN '83, M.A. (Colby, Washington), 1986-  
*Visiting Instructor in Mathematics*
- JOHN ROBERT SWENEY, M.A. '82, Ph.D. (Colorado College, Claremont, Wisconsin),  
1967-  
*Professor of English*
- MARCIA TARDITO, M.A. (Universidad de Chile, Washington), 1984-  
*Visiting Instructor in Modern Languages (Spanish)*
- LINDA TATELBAUM, Ph.D.<sup>7</sup> (Cornell), 1982-  
*Visiting Assistant Professor of English*
- THOMAS HARRY TIETENBERG, M.A. '84, Ph.D. (U.S.A.F. Academy, University of the  
East in the Philippines, Wisconsin), 1977-  
*Professor of Economics*

- BRUCE TERRILL VERMEULEN, M.A. (Harvard, California at Berkeley), 1983-  
*Instructor in Economics; Associate Dean of Faculty*
- KIRSTEN FOGH WALLACE '84<sup>7</sup> (Colby), 1985-86  
*Visiting Instructor in English*
- ROBERT STEPHEN WEISBROT, Ph.D.<sup>3</sup> (Brandeis, Harvard), 1980-  
*Associate Professor of History*
- DACE WEISS, M.A.<sup>7</sup> (Toronto), 1981-  
*Visiting Instructor in Modern Languages (French)*
- JONATHAN MARK WEISS, M.A. '86, Ph.D.<sup>5</sup> (Columbia, Yale), 1972-  
*Professor of Modern Languages (French)*
- GUENTER WEISSBERG, M.A. '70, J.D., Ph.D.<sup>5</sup> (New York University, Columbia Law,  
Columbia), 1965-  
*Professor of Government*
- GINA S. WERFEL, M.F.A.<sup>10</sup> (Kirkland, Columbia), 1980-  
*Assistant Professor of Art*
- JAMES BENJAMIN WESCOTT, M.S. (Plymouth State, Indiana), 1978-  
*Adjunct Assistant Professor of Physical Education*
- PETER WESTERVELT, M.A. '78, Ph.D.<sup>12</sup> (Harvard), 1961-  
*Professor of Classics*
- RICHARD LATHAM WHITMORE, JR., M.Ed. (Bowdoin, Maine), 1970-  
*Adjunct Associate Professor of Physical Education*
- LINDSAY B. WILSON, Ph.D. (Wesleyan, Stanford), 1985-  
*Assistant Professor of History*
- STEPHEN RICHARD WOODY, M.F.A. (California State, Yale), 1976-  
*Adjunct Associate Professor; Technical Director for Performing Arts*
- EDWARD HARRY YETERIAN, Ph.D.<sup>3</sup> (Trinity, Connecticut), 1978-  
*Associate Professor of Psychology*
- GLENN DORIN Zohner, Ph.D. (Brigham Young, Massachusetts), 1963-66, 1969-  
*Associate Professor of Psychology*

<sup>1</sup>On leave full year 1985-86.

<sup>2</sup>On leave full year 1986-87.

<sup>3</sup>On leave first semester 1985-86.

<sup>4</sup>On leave first semester 1986-87.

<sup>5</sup>On leave second semester 1985-86.

<sup>6</sup>On leave second semester 1986-87.

<sup>7</sup>Part-time.

<sup>8</sup>Professors Bernard and Hunter share a joint appointment.

<sup>9</sup>Professors Dianne and Ira Sadoff share a joint appointment.

<sup>10</sup>Professors Pardee and Werfel share a joint appointment, 1982-83, 1984-86.

<sup>11</sup>Taylor Lecturers De Vito and Porter share a joint appointment, 1985-86.

<sup>12</sup>On medical leave.

<sup>13</sup>On exchange to Boole Library, University College, Cork, Ireland, 1985-86.

<sup>14</sup>On exchange from Boole Library, University College, Cork Ireland, 1985-86.

## Applied Music Associates

MARY JO CARLSEN, B.A., B.Mus. (University of Washington)  
*Violin; Concertmistress*

JUDITH CORNELL, B.A. (California at Santa Barbara)  
*Voice*

CARL DIMOW, B.M. (University of Southern Maine)  
*Guitar*

MARK LEIGHTON, M.A. (New England Conservatory)  
*Classical Guitar*

ADRIAN LO, M.M. (Indiana, Smith)  
*Violin and Viola; Director of Colby Band*

JEAN ROSENBLUM, B.A. (Oberlin)  
*Flute*

WILLIAM WALLACE, B.M. (Oberlin)  
*Piano*

## Marshals

YVONNE RICHMOND KNIGHT, M.B.A.  
*College Marshal*

YEAGER HUDSON, Ph.D.

JANE MERYL MOSS, Ph.D.

THOMAS WAYNE SHATTUCK, Ph.D.  
*Assistant College Marshals*

STANLEY A. NICHOLSON, Ph.D.  
*Platform Marshal*

## Assistants

BETSY CHAMPLIN '65, M.S., 1971-  
TIMOTHY CHRISTIANSEN, B.S., 1985-  
*Assistants, Biology*

LAURO DE LA ROSA SANCHEZ, B.A., 1984-86  
VALENTINA HERNANDEZ CASADO, B.A., 1984-86  
*Assistants, Spanish*

FALKO BOHME, 1985-86  
ANDREA SEUL, 1986-87  
*Assistants, German*

BRUCE RUEGER, M.S., 1984-  
*Assistant, Geology*

TETSUO KINOSHITA, B.A., 1986-87  
*Assistant, Japanese*

GUI-KUN GUO, 1986-87  
*Assistant, Chinese*



JEAN MCINTYRE, B.A., 1976-  
*Assistant, Chemistry*

WILLIAM M. TIERNAN '78, 1979-86

STEVEN SHAPIRO '86, 1986-  
*Assistants, Physics*

KIRSTEN F. WALLACE '84, 1984-  
*Assistant, Writing Center*

## College Committees

The president of the College and the dean of faculty are members *ex officio* of all committees of the College. Most of these committees are comprised of faculty, students, and administrators.

### Administrative

Admissions

International Student Admissions

Appeals Board

Athletics

Bookstore

Computer

Educational Policy

Foreign Study Council

Course Approval

Faculty Course Evaluation

Financial Aid

Financial Priorities

Independent Study

Library

Student Affairs

## Faculty Committees

Advisory Committee on Faculty Personnel Policies

Grievance

Hearing Committee for Dismissal Proceedings

Nominating

Promotion and Tenure

Remembrance

Research, Travel, and Sabbatical Leaves

Standing

## Other Committees or Councils

Advisory Committee on Foreign Student Admissions

Advisory Committee on Investment Responsibility

Advisory Committee on the Use of Animal Subjects in Research

Advisory Committee on the Use of Human Subjects in Research

Affirmative Action Committee

Bunche Scholars Committee

Committee to Fund Students' Special Projects

Humanities Grants Committee

- Social Sciences Grants Committee
- Natural Sciences Grants Committee
- Health Care Advisory Committee
- Interdisciplinary Studies Council
- Lipman Lecture Committee
- Professional Preparation, Law and Government Service
- Professional Preparation, Medicine and Dentistry

# Administration 1986-87

- President*, WILLIAM R. COTTER, J.D., 1979-  
*Administrative Assistant to the President*, CAROL A. WELCH, B.S., 1973-  
*Corporate Secretary*, SIDNEY W. FARR '55, M.A., M.B.A., 1960-
- Vice President for Academic Affairs and Dean of Faculty*, DOUGLAS N. ARCHIBALD, M.A. '73, Ph.D., 1973-  
*Associate Dean of Faculty*, BRUCE T. VERMEULEN, M.A., 1983-  
*Administrative Assistant*, LILLIAN LEVESQUE, 1978-  
*Registrar*, GEORGE L. COLEMAN II, M.A., 1963-  
*Director of the Colby Libraries*, SUANNE W. MUEHLNER, M.L.S., M.B.A., 1981-  
*Assistant Director for Public Services*, FRANCES M. PARKER, M.L.S., 1974-  
*Audiovisual Librarian*, SAMUEL L. ATMORE, M.S., 1977-  
*Reference Librarian*, TONI D. KATZ, M.S., 1983-  
*Reference Librarian*, CHARLES R. LAKIN, M.L.S., 1985-  
*Reference Librarian*, JOHN R. LIKINS, M.L.S., 1984-  
*Reference Librarian*, MARILYN R. PUKKILA, M.S.L.S., M.A., 1984-  
*Head Cataloguer*, CATHERINE H. COCKS, M.A.L.S., 1980-  
*Special Collections Librarian*, J. FRASER COCKS III, Ph.D., 1975-  
*Science Librarian*, SUSAN W. COLE, M.S., 1978-  
*Director of the Museum of Art*, HUGH J. GOURLEY III, A.B., 1966-  
*Administrative Assistant*, DENISE M. DONAHUE '82, 1986-
- Administrative Vice President*, STANLEY A. NICHOLSON, Ph.D., 1981-  
*Administrative Assistant*, LILLIAN LEVESQUE, 1978-  
*Director of Personnel Services*, NICOLAAS KAAAN, B.B.A., 1978-  
*Associate Director of Personnel Services*, ROBERT E. KEANE, M.P.A., 1985-  
*Treasurer*, DOUGLAS E. REINHARDT '71, M.B.A., 1972-  
*Controller*, ROBERT ST. PIERRE, B.S., 1985-  
*Assistant Controller*, CYNTHIA WELLS '83, 1983-  
*Director of Administrative Services*, KENNETH T. GAGNON, B.A., 1981-  
*Bookstore Manager*, JESSICA S. T. GOWER, B.A., 1984-  
*Assistant Manager*, DIANE GAGNON, 1979-  
*Director of Computer Center*  
*Systems Programmer*, DAVID W. COOLEY, M.Div., 1978-  
*Senior Systems Analyst*, JUDITH B. JUDKINS, B.A., 1978-  
*Application Programmer*, JOHN R. DONAHUE, B.A., 1982-  
*Coordinator of Academic Computing*, RAYMOND B. PHILLIPS, Ph.D., 1984-  
*Director of Dining Services*, DANIEL J. EUSEBIO, B.S., 1985-  
*Food Service Managers:*  
*Chaplin Commons*, SUSAN CROUSE  
*Johnson Commons*, JANE MAKURAT  
*Production Manager, Johnson/Chaplin Commons*, DAVID PHILBROOK  
*Lovejoy Commons*, PETER BRAMLEY  
*Mary Low Commons*, DAWN WILLIAMS  
*Director of Division of Special Programs*, ROBERT H. KANY, Ph.D., 1969-  
*Associate Director, Division of Special Programs*, JOAN SANZENBACHER, B.A., 1978-

- Director of Physical Plant*, ALAN D. LEWIS, B.S., 1984-  
*Business Manager*, ARTHUR SAWTELLE, B.A., 1976-  
*Foreman, Custodial Services*, J. NORMAN POULIN, 1961-  
*Assistant Foreman, Custodial Services*, LINDA POWELL, 1976-  
*Foreman, Building Maintenance*, LEE SPALDING, 1976-  
*Foreman, Heating and Ventilation*, WILLIAM ALLEY, B.S., 1982-  
*Foreman, Grounds and Moving*, KEITH STOCKFORD, A.A.S., 1982-  
*Manager, Building Construction*, PATRICK MULLEN, 1980-
- Vice President for Development and Alumni Relations*, G. CALVIN MACKENZIE, Ph.D., 1978-  
*Alumni Secretary*, SIDNEY W. FARR '55, M.A., M.B.A., 1960-  
*Associate Director of Development*, MARY C. ROY, 1968-  
*Assistant Director of Development*, JUDITH M. POWELL, M.B.A., 1984-  
*Director of Planned Giving*, DAVID L. ROBERTS '55, M.S., 1977-  
*Associate Director of Alumni Relations*, SUSAN F. COOK '75, 1981-  
*Director of Annual Giving*, PAMELA M. ALEXANDER, B.A., 1981-  
*Assistant Director of Annual Giving*, BARBARA A. LEONARD '83, 1984-  
*Associate Campaign Director*, ERIC F. ROLFSON '73, M.A., 1982-  
*Development Writer*, EDWARD C. DAY, A.B., 1985-
- Dean of Admissions and Financial Aid*, PARKER J. BEVERAGE, M.A., 1985-  
*Associate Dean of Admissions*, JUDITH L. BRODY, B.A., 1979-  
*Associate Dean of Admissions*, THOMAS W. KOPP, M.A., 1978-  
*Assistant Dean of Admissions*, RONALD G. WHITTLE, M.A., 1986-  
*Assistant to the Dean of Admissions*, GRETCHEN R. BEAN '85, 1985-  
*Assistant to the Dean of Admissions*, SUSAN A. GAY, B.A., 1983-  
*Assistant to the Dean of Admissions and Financial Aid for Research and Computing*, ITA LINDQUIST, B.S., 1985-  
*Director of Financial Aid*, LUCIA W. SMYTH '73, 1986-  
*Assistant Director of Financial Aid*, LISA J. BUBAR '73, 1985-
- Dean of the College*, EARL H. SMITH, B.A., 1962-  
*Assistant to the Dean for Scheduling and Facilities*, MARY ANN EUSEBIO, B.S., 1986-  
*Chaplains:*  
*Catholic*, FATHER JOHN SKEHAN, M.Div., 1986-  
*Jewish*, RABBI RAYMOND KRINSKY, M.H.L., 1984-  
*Protestant*, RONALD E. MORRELL, 1984-
- Director of Career Services*, JAMES MCINTYRE, Ph.D., 1976-  
*Associate Director of Career Services*, NANCY W. MACKENZIE, M.A., 1982-  
*Alumni Liaison*, LINDA K. COTTER, M.Ed., 1982-  
*Dean of Students*, JANICE A. SEITZINGER, M.A., 1974-  
*Director of Student Activities*, JOHN FARKAS, M.Ed., 1986-  
*Associate Dean of Students*, JOYCE H. MCPHETRES MAISEL, M.A., 1981-  
*Housing Coordinator*, PAUL E. JOHNSTON, B.A., 1982-  
*Associate Dean of Students*, MARK R. SERDJENIAN '73, 1984-  
*Tutor and Study Counselor*, ELIZABETH TODRANK, M.Ed., 1961-  
*Associate Dean of Students for Intercultural Activities*, EDWARD M. BLACKWELL, B.A., 1986-

- Director of Safety and Security*, PETER S. CHENEVERT, 1980-  
*Director of Public Affairs*, PETER J. KINGSLEY, M.A. 1976-  
*Assistant to the Director of Public Affairs*, CATHERINE ANDERSON, Ph.D., 1985-  
*Director of Publications*, BONNIE BISHOP, B.S., 1984-  
*Production Coordinator*, NORA L. CAMERON, B.A., 1983-  
*Production Editor*, MARTHA F. SHATTUCK, B.A., 1973-  
*College Editor*, ROBERT A. GILLESPIE, Ph.D., 1971-77, 1982-  
*College Physician*  
*Director of Health Services*, CARL E. NELSON, M.Ed., 1959-  
*Psychotherapist*, JANET IRGANG, M.S.W., 1980-  
*Clinical Psychologist*, DANIEL A. HUGHES, M.D., 1985-  
*Health Associate*, ANN H. NORSWORTHY, P.A.-C., B.S., 1982-  
*Physician's Assistant*, STEPHEN T. ROMANELLA, P.A.-C., B.A., B.S., 1985-  
*Head Nurse*, PRISCILLA SARGENT, R.N., 1969-  
*Assistant Trainer*, TIMOTHY J. ADAMS, R.P.T., B.S., 1980-  
*Assistant Trainer*, NANCY L. JONES '81, 1981-

# Enrollment by States and Countries

Classified according to geographical locations of students' homes 1985-86

	<i>Men</i>	<i>Women</i>	<i>Total</i>		<i>Men</i>	<i>Women</i>	<i>Total</i>
<b>All Areas</b>	885	845	1,730	Oregon	1	2	3
<b>New England</b>	574	584	1,158	Pennsylvania	27	31	58
Connecticut	86	76	162	Puerto Rico	1	0	1
Maine	107	118	225	South Carolina	1	0	1
Massachusetts	310	320	630	Tennessee	0	1	1
New Hampshire	30	38	68	Texas	3	2	5
Rhode Island	29	19	48	Utah	5	0	5
Vermont	12	13	25	Virginia	6	6	12
				Washington	2	3	5
				Wisconsin	5	3	8
<b>Outside</b>				<b>Foreign</b>			
<b>New England</b>	280	248	528	<b>Countries</b>	31	13	44
Alabama	1	0	1	Australia	0	1*	1
Alaska	2	2	4	Belgium	0	1*	1
Arizona	0	3	3	Bermuda	0	1	1
Arkansas	0	1	1	Bolivia	0	1	1
California	14	28	42	Brazil	1*	0	1
Colorado	10	7	17	Canada	5	2**	7
Delaware	5	3	8	China	1	0	1
District of				Denmark	1*	0	1
Columbia	3	6	9	England	3**	1*	4
Florida	9	8	17	Finland	1	0	1
Georgia	4	1	5	France	3*	2	5
Idaho	1	1	2	Ghana	1	0	1
Illinois	10	8	18	Guatemala	1*	0	1
Indiana	5	1	6	Hong Kong	1*	0	1
Iowa	0	1	1	India	0	1	1
Kansas	1	0	1	Malaysia	1	1	2
Kentucky	2	0	2	Mexico	1	0	1
Louisiana	0	2	2	Nepal	2	0	2
Maryland	11	13	24	Pakistan	2	0	2
Michigan	10	3	13	South Africa	1	1	2
Minnesota	1	5	6	Spain	1	0	1
Mississippi	0	1	1	Sweden	1	1	2
Missouri	4	1	5	Switzerland	2*	0	2
Nevada	1	0	1	Tanzania	1	0	1
New Jersey	47	42	89	Turkey	1	0	1
New Mexico	1	0	1				
New York	74	51	125				
North Carolina	0	2	2				
Ohio	13	10	23				

Each \* denotes one American citizen.

# Degrees Awarded at Commencement Sunday, May 25, 1986

## Bachelor of Arts

- Geoffrey Knight Alexander, *Marblehead, Mass.*  
 Benjamin Morris Allen, *Fort Lauderdale, Fla.*  
 James Patrick Allen IV, *Weston, Mass.*  
 Jennifer Amy Allen, *Scarsdale, N.Y.*  
 Michael E. Allen, *Cincinnati, Ohio*  
 Robert Steen Allyn, Jr., *Yarmouth, Me.*  
 Yasser Mohamed Alwan, *Tenafly, N.J.*  
 Philip C. Amarante, Jr., *Westport, Conn.*  
 Stephen Mark Antonelli, *Belmont, Mass.*  
 Terry Lynn Appleton, *Augusta, Me.*  
 Julie Anne Archer, *Amherst, Mass.*  
 Cynthia Louise Arditto, *West Yarmouth, Mass.*  
 Heidi Ann Arnao, *Canton, Mass.*  
 Thomas Francis Audolensky, *Bath, N.H.*  
 Daniel Auslander, *Pelham Manor, N.Y.*  
 David John Avedesian, *Saddle River, N.J.*  
 Christina Maria Babarović, *Scarsdale, N.Y.*  
 Karen M. Barbera, *North Andover, Mass.*  
 Christian Long Barner, *Kennebunkport, Me.*  
 Amy Arbuckle Barnes, *Weston, Mass.*  
 Linda J. Baroncelli, *Brockton, Mass.*  
 William Merrill Bartlett, *Newburyport, Mass.*  
 Suzanne Judith Battit, *Belmont, Mass.*  
 Richard George Bausman, *Waterville, Me.*  
 Scott Lincoln Baxter, *Yarmouth, Me.*  
 Gretchen Bean, *Glastonbury, Conn.*  
 Gregory Field Beatty, *Oshawa, Ontario*  
 Lynn M. Bellavance, *Needham, Mass.*  
 Antonio A. Bentivoglio, *Philadelphia, Pa.*  
 Lori Jane Berger, *Goffstown, N.H.*  
 James Joseph Bergera II, *Ogden, Utah*  
 Frederic William Bernard, *Fort Lee, N.J.*  
 James Pratt Berwick, *Needham, Mass.*  
 Wendy Dale Birbrower, *Pound Ridge, N.Y.*  
 Thomas Carlton Blair, *Ridgewood, N.J.*  
 David Kendall Blake, Jr., *Reading, Mass.*  
 Juliet Haven Blake, *Washington, D.C.*  
 Amy Louise Bleakney, *Sudbury, Mass.*  
 Jill Bond, *Brookline, Mass.*  
 Janet Ellen Booth, *Brooklyn, Conn.*  
 Virginia Alice Bousum, *Kingfield, Me.*  
 Lori Cynthia Boyd, *Kennebunkport, Me.*  
 Perrin Esther Boyd, *Edina, Minn.*  
 Thomas John Boyd, *Westwood, Mass.*  
 Rachel Brandzel, *Seattle, Wash.*  
 Kathy Lyn Braverman, *Andover, Mass.*  
 Hilary Moyer Breed, *Medfield, Mass.*  
 Stephen Corbett Brennan, *Groton, Conn.*  
 Stephen Chase Bridge, *Burlington, Vt.*  
 Scott Francis Briody, *Wilton, Conn.*  
 Christopher J. Brogan, *Belmar, N.J.*  
 Deborah Brooks, *Unionville, Conn.*  
 Hamilton Merrick Brower, *Carversville, Pa.*  
 Catherine Duer Brown, *Bethesda, Md.*  
 Laurie Jean Brown, *Appleton, Me.*  
 Grace Serizawa Brown-Asgard, *Townsend, Mass.*  
 Paul John Buckley, *Wellfleet, Mass.*  
 Madeleine Anne-Marie Budnick, *West Hartford, Conn.*  
 Daniel Robert Bullis, *Avon, Conn.*  
 Dana DeWitt Burch III, *Richmond, Va.*  
 John Joseph Burke III, *Lynn, Mass.*  
 Mark William Burke, *Warwick, R.I.*  
 Elizabeth Tobey Burnett, *Medway, Mass.*  
 Kimberly Ann Burnham, *Canastota, N.Y.*  
 Tracy Jo Burnham, *Aspen, Colo.*  
 Andrew William Burns, *Revere, Mass.*  
 Kristan Hilary Burns, *Fort Kent, Me.*  
 Betsey Bates Burrell, *Marion, Mass.*  
 Barrando Butler, *Hyde Park, Mass.*  
 William Owen Butler, *Bangor, Me.*  
 Anne Elizabeth Butter, *Milwaukee, Wis.*  
 James Dunbar Campbell, *Newton, Mass.*  
 Sara Blythe Campbell, *Corning, N.Y.*  
 Matthew Rudd Canaday, *Lebanon, N.J.*  
 Alison Jane Capstick, *Smith's, Bermuda*  
 Craig A. Carlson, *Westborough, Mass.*  
 John B. Carlton, *Birmingham, Ala.*

Lindsey Beth Carver, *Merion, Pa.*  
 Scott Alan Carver, *Chester, N.J.*  
 Robert Lawrence Casey, Jr., *Dedham, Mass.*  
 Robin Lynn Chalmers, *Tuftonboro, N.H.*  
 Scott Graham Chaplowe, *Stratford, Conn.*  
 Louise Jacquelyn Charbonneau, *Rockport, Me.*  
 Kelly Elizabeth Grace Chopus, *Southington, Conn.*  
 Jeanne Marie Choquette, *Warwick, R.I.*  
 Pamela Jean Christman, *Sheffield, Mass.*  
 Laurie S. Christos, *Swarthmore, Pa.*  
 John F. Church III, *Yarmouth, Me.*  
 Valerie Anne Claff, *Milton, Mass.*  
 Karen Edith Clark, *Solana Beach, Calif.*  
 Laurie A. Clark, *Marlborough, Mass.*  
 Charles Francis Cleary, *Needham, Mass.*  
 Charles Frederick Clippert III, *Birmingham, Mich.*  
 Robin Danielle Clisby, *Woodbury, Conn.*  
 Robert J. Cobuzzi, Jr., *Sudbury, Mass.*  
 Craig Lawrence Cohen, *Newton, Mass.*  
 Kathleen Mary Colbert, *Pinellas Park, Fla.*  
 Bruce Flagge Cole, *Osterville, Mass.*  
 Charles Cole, *Philadelphia, Pa.*  
 Scott Frindel Cole, *Gates Mills, Ohio*  
 Peter Bradley Coley, *West Hartford, Conn.*  
 Paula Catherine Collings, *Thomasville, N.C.*  
 Peter Benvie Cooke, *Marblehead, Mass.*  
 Brian R. Cornwall, *Fayetteville, N.Y.*  
 Colette Ann Cote, *Bristol, Conn.*  
 Michele Louise Cotter, *Weston, Mass.*  
 Molly Torrey Couch, *Easthampton, Mass.*  
 Jason Crawley, *San Carlos, Calif.*  
 Jennifer Marie Creamer, *Paxton, Mass.*  
 Charlene Renee Crocker, *Bloomington, Minn.*  
 Scott Lochman Croll, *Hancock, Mich.*  
 Gregory Paul Cronin, *Arlington, Mass.*  
 Daniel Elliot Cullaty, *Weston, Mass.*  
 Shauna Louise Cully, *Weymouth, Mass.*  
 Robert Barton Cummings, *Waccabuc, N.Y.*  
 Donna Curran, *Peabody, Mass.*  
 Patricia Ann Curry, *Hamilton, Mass.*  
 Thomas Brandin Cusack, *Cape Elizabeth, Me.*  
 Jeffrey Dennis D'Agostine, *Acton, Mass.*  
 Evan Kenneth Dangel, *Sudbury, Mass.*  
 Richard Burnham Deering, *Falmouth Foreside, Me.*  
 Norma Jane Delaney, *Scituate, Mass.*  
 Joseph John De Lucia, *Monroe, Conn.*

Amy Elizabeth Deobald, *Aurora, Ohio*  
 Marc Salvatori De Rosa, *Lynnfield, Mass.*  
 Charles Ross Devin, *Monroe, Conn.*  
 Michael Tom Dobbs, *Forest Hills, N.Y.*  
 William Andrew Docherty, *Glastonbury, Conn.*  
 Kelly Anne Donahoe, *San Jose, Calif.*  
 William F. Donahue, *Farmington, Conn.*  
 Marc Hall Doolittle, *Seekonk, Mass.*  
 Diana Dorsey, *Los Angeles, Calif.*  
 Jennifer Douglas, *Gloucester, Mass.*  
 Angela Holliday Drennen, *Silver Spring, Md.*  
 Paul John Duca, *East Weymouth, Mass.*  
 Sheila Ann Duffy, *East Aurora, N.Y.*  
 Anne Martha DuHaime, *Peterborough, N.H.*  
 Carol Mae Duplessie, *Albion, Me.*  
 Walter Ray Edwards, *Ann Arbor, Mich.*  
 Linda M. Elliott, *Skowhegan, Me.*  
 Christopher Charles Engstrom, *Paris, France*  
 David Scott Epstein, *Portland, Me.*  
 Eve-Lynne Karen Estelle Ermer, *Tunbridge, Vt.*  
 Jennifer Marie Estes, *Topsfield, Mass.*  
 Barbara Gail Falcone, *Princeton, N.J.*  
 Alisa Ilana Wendy Falk, *Providence, R.I.*  
 Cynthia Lee Fallon, *Dedham, Mass.*  
 Kevin John Farley, *Hyannis, Mass.*  
 Giovanni Anthony Fazio, *Newton, Mass.*  
 Kristen Nancy Feifert, *Warwick, R.I.*  
 Ellen Jane Field, *Great Neck, N.Y.*  
 Kurt Robert Fischer, *Bridgewater, N.J.*  
 Thomas Jefferey Fisher, *Newton Centre, Mass.*  
 John Carmen Fitzpatrick, *Reading, Mass.*  
 Susan J. Fleck, *Falmouth, Mass.*  
 Jessica Ann Catherine Flood, *Merrimack, N.H.*  
 Denis John Foley, *Sharon, Mass.*  
 Michael Roger Fortin, *Cumberland Foreside, Me.*  
 William G. Foster, *Yarmouth, Maine*  
 Kelly Mitsuko Frame, *Chicago, Ill.*  
 Richard Winthrop Frank, *Simsbury, Conn.*  
 Heather Leigh Frasier, *Stratham, N.H.*  
 Pamela Jane Frederick, *Framingham, Mass.*  
 Heather Kathleen Freeman, *Stowe, Vt.*  
 James Joseph Frew, *Westwood, Mass.*  
 Margaret Walker Frymoyer, *South Burlington, Vt.*  
 Lynnè Anne Fuller, *Boxford, Mass.*  
 Jessica Ruth Gahm, *Ipswich, Mass.*



- Patrice Marie Galvin, *Newton, Mass.*  
 Gregory Stuart Getschow, *Milwaukee, Wis.*  
 Karen Jo Giammusso, *Andover, Mass.*  
 Kristin Dodd Giblin, *Seekonk, Mass.*  
 Michael E. Gibney, *Lakeville, Mass.*  
 George Douglas Gibson, *Denver, Colo.*  
 Amy Lynn Glazer, *Framingham, Mass.*  
 Gail L. Glickman, *Scarsdale, N.Y.*  
 Laura Webster Goepfert, *Hong Kong, British Crown Colony*  
 Nancy Beth Goldberg, *Lexington, Mass.*  
 Mark Christopher Gordon, *Portland, Oreg.*  
 Fran Marcy Gradstein, *Melville, N.Y.*  
 Jonathan Irving Greene, *Seattle, Wash.*  
 Leslie A. Greenslet, *Greenwich, Conn.*  
 Paul M. Groshek, *Denver, Colo.*  
 Laurel Sue Gross, *Suncook, N.H.*  
 Julie Frances Grossman, *Needham, Mass.*  
 Philip Jon Guarino, *Topsfield, Mass.*  
 Daniel Joseph Gulizio, *Hauppauge, N.Y.*  
 Erik Adolf Gundersen, *La Crosse, Wis.*  
 Harriet Ann Haake, *San Marino, Calif.*  
 John Taylor Haberstock, *Wilton, Conn.*  
 Alan Kyle Hagstrom, *Gloucester, Mass.*  
 Genevieve Marie Hammond, *Boston, Mass.*  
 Joan Handweg, *Medford, Oreg.*  
 Annette Susanne Hanzer, *Los Angeles, Calif.*  
 Charles Neal Hargraves, *Framingham, Mass.*  
 Regan Marie Hargraves, *Hanover, N.H.*  
 Beth Harrington, *Cambridge, Mass.*  
 Brent Thomson Harris, *Bethesda, Md.*  
 Holly Anne Harris, *Cumberland, R.I.*  
 Jill Stasz Harris, *Boulder, Colo.*  
 Kenneth Richard Harris, *Cohasset, Mass.*  
 Rebecca Elizabeth Hart, *Nashua, N.H.*  
 John Matthew Hartley, *Wayland, Mass.*  
 Nicholas James Hauer, *Bethany, Conn.*  
 Juliana Hayden, *Gorham, Me.*  
 Michael Andrew Heel, *Northeast Harbor, Me.*  
 Daniel Merritt Hewett, *Pittsford, N.Y.*  
 Michael Peter Hill, *Waterville, Me.*  
 Albert Cary Hills, Jr., *Winchester Center, Conn.*  
 Michael Edward Hipson, *Southborough, Mass.*  
 Adam Daniel Hirshman, *Wayland, Mass.*  
 Brigid Marie Hoffman, *Ridgewood, N.J.*  
 Guy Constant Holbrook IV, *Duxbury, Mass.*  
 Jay Williams Hooper, *Cape Elizabeth, Me.*  
 Kathleen Veronica Hooper, *Ridgewood, N.J.*  
 Lila Primrose Hopson, *Stratton, Me.*  
 Moira Patricia Houton, *Dorchester, Mass.*  
 Hadley Anne Hubbard, *Baltimore, Md.*  
 Kevin Francis Hulse, *Newburyport, Mass.*  
 Scott Paul Humphrey, *Hallowell, Me.*  
 Elizabeth Hurley, *Barrington, R.I.*  
 Harold Eustace Igoe III, *Charleston, S.C.*  
 Jennifer Marley Imhoff, *Baltimore, Md.*  
 Kenneth Edwin Jackman, *Ocean Park, Me.*  
 Donald Baldwin Jackson, *Fairfield, Conn.*  
 Sally-Ann Jaffe, *South Yarmouth, Mass.*  
 Kurt Dee James, *Avon, Conn.*  
 Kristopher Lund Jensen, *Alpharetta, Ga.*  
 Karen Ann Jodoin, *Oxford, Me.*  
 Kathryn Allison Jones, *Wellesley, Mass.*  
 Arlene Lucy Kasarjian, *Belmont, Mass.*  
 Timothy Charles Kastrielis, *Boxford, Mass.*  
 John Joseph Kelemen III, *Rockville, Md.*  
 Katherine Ann Keller, *Belfast, Me.*  
 Janet Louise Kelley, *Beverly, Mass.*  
 Cynthia Ann Kelly, *Earlville, N.Y.*  
 Robert Allen Kenney, *Peabody, Mass.*  
 Mary Ellen Kim, *Bronx, N.Y.*  
 Linda Charlotte Kindblom, *Summit, N.J.*  
 Jeffrey Scribner King, *Duxbury, Mass.*  
 Paula Louise King, *Boston, Mass.*  
 Harry Walter Kinsley III, *Limerick, Me.*  
 Maria Gracia Kohler, *Needham, Mass.*  
 Mary Lou Kopas, *Webster, Mass.*  
 Karen Elizabeth Kozma, *Old Saybrook, Conn.*  
 Carolyn Leigh Kuenne, *Princeton, N.J.*  
 William Michael Kules III, *Stowe, Vt.*  
 Mlungisi Kwini, *Capetown, South Africa*  
 Michael Stephen Lalikos, *Wenham, Mass.*  
 David Phillip Landau, *Westfield, N.J.*  
 Helene Anne Landers, *Suffield, Conn.*  
 David W. Lane, *Portsmouth, R.I.*  
 Laura Harriman Lane, *Old Greenwich, Conn.*  
 Heidi Langius, *Sedona, Ariz.*  
 Wendy Elizabeth Lapham, *Otisco, N.Y.*  
 Philip Ray Lapp, *Chester, Vt.*  
 David Seymour Larkin, *Norridgewock, Me.*  
 Laura J. Latman, *New York, N.Y.*  
 James Blake LeBaron, *Wayland, Mass.*  
 Mark Peter Leondires, *Danvers, Mass.*  
 Nancy Ann Levine, *Englewood, Colo.*  
 Elizabeth Ann Libby, *Standish, Me.*  
 Cynthia C. Lloyd, *Westfield, N.J.*  
 Gregory Scott Lockwood, *Manhattan Beach, Calif.*

Stephanie Ann Lowe, *Greenwich, Conn.*  
 Robert David Loynd, *Concord, Mass.*  
 Peter Brooke Lull, *Lutherville, Md.*  
 Daniel Wayne MacDonald, *Belmont, Mass.*  
 David Albert Mace, *Amherst, Me.*  
 Laura Beth MacKenzie, *Needham, Mass.*  
 Michael L. Madigan, *New York, N.Y.*  
 Gregory John Maheras, *Hingham, Mass.*  
 Elisabeth A. Maier, *Dover, Mass.*  
 Andrew Jennings Maley, *Orange, Conn.*  
 Peter Thomas Marchesi, *Guilford, Conn.*  
 Michael Edward Marchetti, *Hamilton, Mass.*  
 Joey Albert Marcoux, *Burnham, Me.*  
 Michael Henry Marra, *Barrington, R.I.*  
 Patricia Jane Martin, *Williamstown, Mass.*  
 Patrick M. Martin, *Lewiston, Me.*  
 Paul William Martin, *Old Saybrook, Conn.*  
 Sharon-Marie F. Matusik, *Indian Head Park, Ill.*  
 Susan Paula Maxwell, *Wakefield, Mass.*  
 Chapman Scott Mayo, *Brunswick, Me.*  
 Matthew Philip McArdle, *Gettysburg, Pa.*  
 Charles Edward McCabe, *Sherborn, Mass.*  
 Leo Thomas McCallum, *Newton, Mass.*  
 Kathleen Ann McCarthy, *Manchester, Me.*  
 Patricia Paris McClellan, *Winter Park, Fla.*  
 Sean Ian McCormack, *Cumberland Foreside, Me.*  
 Stephen McCue, *Wenham, Mass.*  
 Elise May McDonough, *Winchester, Mass.*  
 John Richard McGrail, *Branford, Conn.*  
 Andrea Paula McInnis, *Milton, Mass.*  
 Deborah Marcia McKay, *Bronx, N.Y.*  
 Kelly Lee McPhail, *Sydney, Australia*  
 Elizabeth White McSorley, *Marstons Mills, Mass.*  
 Kevin Mead, *Erie, Pa.*  
 Melanie Ritchie Megathlin, *Cape Elizabeth, Me.*  
 Amy L. Melker, *Milford, N.H.*  
 Leslie Melville-Kraemer, *Lloyd Harbor, N.Y.*  
 Linda Jeannette A. Michaud, *Fairfield, Me.*  
 John Steven Miller, *Incline Village, Nev.*  
 Karen Sawyer Mitchell, *Harvard, Mass.*  
 Randy Douglas Mitchell, *Winslow, Me.*  
 Todd Michael Molloy, *Salem, Conn.*  
 Lori Alice Moody, *Madbury, N.H.*  
 Deborah Jane Morse, *Hingham, Mass.*  
 Caroline Root Moses, *West Falmouth, Mass.*  
 Sonja Fay Muehlmann, *Lexington, Mass.*  
 Gavin Edward Murphy, *New York, N.Y.*

Alec Compton Murray, *Burlington, Vt.*  
 Jill Meredith Myerow, *Peabody, Mass.*  
 Ilona Victoria Nagy, *Bedford, Mass.*  
 Mary Ann Needham, *Dedham, Mass.*  
 William Mark Needham, *Hingham, Mass.*  
 Caroline Hart Nelson, *Lafayette, Calif.*  
 John William Nelson, Jr., *Chevy Chase, Md.*  
 Maren Araminta Nelson, *Annaville, Pa.*  
 William Richard Nicholas, Jr., *Los Angeles, Calif.*  
 Brian David Norris, *Beverly, Mass.*  
 Nancy J. Norris, *Bridgewater, N.J.*  
 William Edward Northfield, Jr., *Arlington, Mass.*  
 Judith S. Noyes, *Hollis, N.H.*  
 Jeffrey Lambert O'Brien, *Yarmouth, Me.*  
 Kenneth James O'Brien, *South Hempstead, N.Y.*  
 Loriann O'Keefe, *Peabody, Mass.*  
 Scott David Olewiler, *Bethlehem, Pa.*  
 Nicholas A. Ophuls, *Durham, N.H.*  
 Kate Leslie Osborne, *Monroe, Conn.*  
 Daniel Joseph O'Sullivan, *Hong Kong, British Crown Colony*  
 Lalyn Read Ottley, *Sun Valley, Ida.*  
 Thomas Bayard Outerbridge, *Rockport, Me.*  
 Thomas Cole Oxholm, *Wilton, Conn.*  
 Christopher S. Parker, *Winchester, Mass.*  
 Douglas Hempel Parker, *Windsor, Conn.*  
 Kathryn Elizabeth Paterson, *Stamford, Conn.*  
 Suzanne Bourne Pearson, *Warren, R.I.*  
 Walter Martin Peczon, *Greenfield, Mass.*  
 John Joseph Pelletier, *Amesbury, Mass.*  
 Gordon Eric Pendleton, *Saco, Me.*  
 Sarah Eileen Pennington, *Needham, Mass.*  
 Deborah Jeanne Pernice, *Holbrook, Mass.*  
 Penelope May Perri, *Merrimack, N.H.*  
 A. Scott Perry, *North Andover, Mass.*  
 Elizabeth Winslow Peters, *Wellesley, Mass.*  
 Laurie Ellen Petrell, *Hanover, Mass.*  
 Deborah Louise Pfeifer, *Little Rock, Ark.*  
 Cabot Harrison Philbrick, *Basking Ridge, N.J.*  
 James John Pietro, *Spencer, Mass.*  
 Samuel Francis Pietropaolo, *Revere, Mass.*  
 Kathleen Ann Pinard, *Bedford, N.H.*  
 Stephen Gerard Poirier, *Auburn, Me.*  
 Deborah S. Potter, *Boxford, Mass.*  
 Stephen Stewart Potts, *East Lyme, Conn.*  
 Lisa Yvette Poulin, *Rumford, Me.*  
 David Edward Power, *Hingham, Mass.*  
 Mary Jane Powers, *Osterville, Mass.*

- Jay Robert Prefontaine, *Auburn, Mass.*  
 Paul Marshall Prescott, *Malden, Mass.*  
 David Michael Quillen, *Oxford, England*  
 John Robert Rafferty, *East Granby, Conn.*  
 Ann W. Raible, *Toronto, Ontario*  
 Bruce William Raphael, *Waitsfield, Vt.*  
 Heather Charlotte Reay, *Minneapolis, Minn.*  
 Monique Marie Reed, *Lexington, Mass.*  
 Kathryn Ann Reynolds, *West Simsbury, Conn.*  
 Elizabeth Longval Rhoads, *Paso Robles, Calif.*  
 Carolyn Marie Rhodes, *Kensington, Md.*  
 Grantland S. Rice, *Grosse Pointe, Mich.*  
 Susan Eileen Roberts, *Waterville, Me.*  
 Susan Felicie Rosenthal, *Short Hills, N.J.*  
 Karl H. Ruping, *Burlington, Mass.*  
 Lindsay Ann Ruppel, *Massapequa, N.Y.*  
 Melissa Jane Lockwood Rustia, *South Egremont, Mass.*  
 Lisa A. Rydin, *Hingham, Mass.*  
 George Nicholas Samaras, *Haverhill, Mass.*  
 Ann Rene Sanborn, *Newport Beach, Calif.*  
 Nina Ann Sardo, *Revere, Mass.*  
 Andrea Victoria Sarris, *Dover, Mass.*  
 Michael Ames Savage, *Santa Barbara, Calif.*  
 Douglas Victor Scalise, *Brookline, Mass.*  
 Lee Ann Scammon, *Providence, R.I.*  
 Robin Lynne Scheuer, *Brockton, Mass.*  
 Robin Lee Schulman, *Lexington, Mass.*  
 Walter Phelps Bliss Schwab, Jr., *Providence, R.I.*  
 Beth Meryl Schwartz, *Framingham, Mass.*  
 Kara Lynn Schwartz, *Woodbridge, Conn.*  
 Amy Lydia Scott, *Wallingford, Conn.*  
 Susan Scott, *Salinas, Calif.*  
 David Peterson Severance, *Chappaqua, N.Y.*  
 Joyce Leslie Seymour, *Boxford, Mass.*  
 Nina Jaye Shah, *Weston, Mass.*  
 Steven Samuel Shapiro, *Lexington, Mass.*  
 Michael Charles Shauck, *Cheshire, Conn.*  
 Laura Anne Shea, *Lexington, Mass.*  
 Daniel Steven Shiffman, *Cheshire, Conn.*  
 Deborah Lynn Sidelinger, *Burnham, Me.*  
 Robert Douglas Sidman, *Natick, Mass.*  
 Ricardo Henneke Sieveking Hertz, *Guatemala City, Guatemala*  
 David Charles Simpson, *Sumner, Me.*  
 Andrew A. Smith, *Norridgewock, Me.*  
 Darren H. Smith, *Palo Alto, Calif.*  
 Diane C. Smith, *Bolton, Mass.*  
 Julie R. Smith, *West Hartford, Conn.*  
 Laetitia Calder Smith, *New Canaan, Conn.*  
 Lars Stuart Smith, *Copenhagen, Denmark*  
 Martin Francis Smith III, *Dover, N.H.*  
 Peter Matthew Solomon, *Pound Ridge, N.Y.*  
 Rodney Clifford Southworth, *Miami, Fla.*  
 Deborah Anne Spieker, *Menlo Park, Calif.*  
 Suzanne Louise Stahl, *Rochester, N.Y.*  
 James Richard Stahle, *Manchester, N.H.*  
 Lucia Cornell Stanton, *Philadelphia, Pa.*  
 Karl Ferdinand Stammen, Jr., *Norwell, Mass.*  
 Beth Donna Staples, *Pittsfield, Me.*  
 Anthony Forrestel Stiker, *Falmouth, Me.*  
 Edward Andrew Stinson, *Reading, Mass.*  
 Heidi Ann Stonehill, *Cherry Hill, N.J.*  
 Eric William Sullender, *Lunenburg, Mass.*  
 Philip Lawrence Sundel, *Bronx, N.Y.*  
 Joyce Maura Sutton, *Cumberland, Me.*  
 Suzanne Campbell Swain, *Sudbury, Mass.*  
 Holly Swanson, *Brunswick, Me.*  
 Judy Marie Swift, *Southborough, Mass.*  
 Peter Michael Taubkin, *North Hills, N.Y.*  
 Ann Winthrop Thayer, *Oyster Bay, N.Y.*  
 Michelle Elena Toder, *Sterling, Mass.*  
 Richard Eric Tolstrup, *Tewksbury, Mass.*  
 Dwight Cooper Trainer, *Gardenville, Pa.*  
 Karen Anne True, *Bath, Me.*  
 Jessica Miriam Truslow, *Beverly, Mass.*  
 David Edward Turbert, *Trumbull, Conn.*  
 Paul Matthew Turci, *Dover, Mass.*  
 William L. Twomey, *Newburyport, Mass.*  
 Geraldine L. Unobskey, *Bangor, Me.*  
 Amy Stuart Vander Vliet, *Greenfield, Mass.*  
 Robin Ann Venditti, *Natick, Mass.*  
 Peter Douglas Vigue, *Yarmouth, Me.*  
 Peter Lenker Voskamp, *Houston, Tex.*  
 Paul Arthur Wagner, *Dennis, Mass.*  
 Suzanne Lovilla Wahlig, *Painted Post, N.Y.*  
 Margaret Kendig Wallace, *Wolfboro, N.H.*  
 Peter Forrester Walmsley, *Riverside, Conn.*  
 Kristen Bristol Walsh, *Millis, Mass.*  
 Elizabeth Ann Walzer, *Newton, Mass.*  
 Robin Leslie Warren, *Lexington, Mass.*  
 Mary Louise Olry Waterman, *Greenwich, Conn.*  
 Karyn Louise Weafer, *Lynnfield, Mass.*  
 Isabel Laughlin Wells, *Needham, Mass.*  
 Laura Jean Whitney, *Chelmsford, Mass.*  
 Susan Belknap Whitney, *South Dartmouth, Mass.*  
 Sarah Elizabeth Whittle, *Wallingford, Conn.*  
 Ethan Ron Wiesler, *Lexington, Mass.*

John Richard Wilfong, *Chicago, Ill.*  
Henry Augustus Wilmerding III, *Locust Valley, N.Y.*

David Thomas Wilson, *Sturbridge, Mass.*

Joan-Beth Witkes, *Worcester, Mass.*

Benjamin E. Wolff III, *Glencoe, Ill.*

Lisa Diane Woods, *Wellesley, Mass.*

Catherine Maria Woodward, *Lexington, Mass.*

Sherri Marie Worthen, *Mercer, Me.*

Lynn Marie Wunderlich, *Limestone, Me.*

William Turner Yardley, *Needham, Mass.*

Diane Frances Yarrow, *Hingham, Mass.*

Ann Katherine Yates, *Cincinnati, Ohio*

Henrietta Adrian Yelle, *Norton, Mass.*

Jonathan Earl Yett, *Weston, Mass.*

Jehane Christine Zakher, *Wellesley, Mass.*

William Woodfill Zuehlke, *Wakefield, R.I.*

*As of the Class of 1983*

Alastair Malise Gordon Caperton, *Brookline, Mass.*

*Degrees Granted in October*

*as of the Class of 1985*

Philip Keith Cusick, *Warwick, R.I.*

Greg Jay Faierman Harris, *Montreal, Quebec*

Elliot Alan Kolodny, *Half Hollow Hills, N.Y.*

Lori Ruth Landay, *Needham, Mass.*

Richard Avery MacNeille, *St. Charles, Ill.*

Mark David Mongiello, *Winchester, Mass.*

## Honorary Degree Recipients

David Elliott Bell

*Doctor of Humane Letters*

Mary Frances Berry

*Doctor of Laws*

Bernard Lown

*Doctor of Humane Letters*

The Portland String Quartet

Julia Frances Adams

*Doctor of Music*

Stephen Zoltan Keckskemethy

*Doctor of Music*

Ronald P. Lantz

*Doctor of Music*

Paul Ross

*Doctor of Music*

Mortimer B. Zuckerman

*Doctor of Laws*

# Honors

## Senior Marshal

Karen Elizabeth Kozma

## Bachelor's Degree with Honors

### *Summa Cum Laude*

Karen Edith Clark  
 Fran Marcy Gradstein  
 Jill Stasz Harris  
 Karen Elizabeth Kozma  
 Philip Ray Lapp  
 David Seymour Larkin  
 Linda Jeannette A. Michaud  
 Judith S. Noyes  
 Catherine Maria Woodward  
 Lynn Marie Wunderlich

### *Magna Cum Laude*

James Patrick Allen IV  
 Yasser Mohamed Alwan  
 Karen M. Barbera  
 Betsey Bates Burrell  
 John F. Church III  
 Margaret Walker Frymoyer  
 Karen Jo Giammusso  
 Michael Peter Hill  
 Lila Primrose Hopson  
 Kristopher Lund Jensen  
 Cynthia Ann Kelly  
 Robert Allen Kenney  
 Mary Lou Kopas  
 Lori Alice Moody  
 Alec Compton Murray  
 John William Nelson, Jr.  
 Scott David Olewiler  
 Kate Leslie Osborne  
 Mary Jane Powers  
 Ann W. Raible  
 Grantland S. Rice  
 Lisa A. Rydin  
 Walter Phelps Bliss Schwab, Jr.  
 Daniel Steven Shiffman  
 Rodney Clifford Southworth  
 Heidi Ann Stonehill  
 Amy Stuart Vander Vliet  
 Robin Ann Venditti  
 Margaret Kendig Wallace

Sherri Marie Worthen  
 Henrietta Adrian Yelle

### *Cum Laude*

Julie Anne Archer  
 Cynthia Louise Ardito  
 Christian Long Barner  
 Suzanne Judith Battit  
 Lynn M. Bellavance  
 Lori Jane Berger  
 Jill Bond  
 Grace Serizawa Brown-Asgard  
 Paul John Buckley  
 Anne Elizabeth Butter  
 James Dunbar Campbell  
 Sara Blythe Campbell  
 Pamela Jean Christman  
 Paula Catherine Collings  
 Jennifer Marie Creamer  
 Donna Curran  
 Evan Kenneth Dangel  
 Joseph John De Lucia  
 Marc Salvatori De Rosa  
 William F. Donahue  
 Jennifer Douglas  
 Linda M. Elliott  
 Eve-Lynne Karen Estelle Ermer  
 Jessica Ruth Gahm  
 Michael E. Gibney  
 Paul M. Groshek  
 Annette Susanne Hanzer  
 Kurt Dee James  
 Arlene Lucy Kasarjian  
 John Joseph Keleman III  
 William Michael Kules III  
 David W. Lane  
 James Blake LeBaron  
 Elizabeth Ann Libby  
 Cynthia C. Lloyd  
 Paul William Martin  
 Sharon-Marie F. Matusik  
 Deborah Jane Morse  
 Caroline Root Moses  
 Ilona Victoria Nagy  
 William Edward Northfield, Jr.  
 John Joseph Pelletier  
 Deborah Jeanne Pernice  
 Stephen Stewart Potts

Burce William Raphael  
 Karl H. Ruping  
 Douglas Victor Scalise  
 Beth Meryl Schwartz  
 Joyce Leslie Seymour  
 Steven Samuel Shapiro  
 Deborah Lynn Sidelinger  
 Robert Douglas Sidman  
 David Charles Simpson  
 Deborah Anne Spieker  
 Joyce Maura Sutton  
 Holly Swanson  
 Karen Anne True  
 Elizabeth Ann Walzer  
 Mary Louise Olry Waterman  
 Karyn Louise Weafer  
 Benjamin E. Wolff III

*Honors in American Studies*

Gregory Paul Cronin  
 Susan Paula Maxwell  
 Henry Augustus Wilmerding III

*Honors in Chemistry*

John Paul Buckley

*Honors in Economics*

Arlene Lucy Kasarjian

*Honors in Government*

James Joseph Bergera II  
 Jill Bond  
 Lisa A. Rydin

*Honors in History*

Jonathan Irving Greene  
 William Edward Northfield, Jr.

*Honors in Psychology*

Lila Primrose Hopson  
 Robert Allen Kenney  
 Linda Jeannette A. Michaud  
 Mary Jane Powers  
 Beth Meryl Schwartz

**Distinction in the Major**

*Administrative Science*

Donna Curran  
 Jennifer Douglas  
 Sheila Ann Duffy  
 Jeffrey Scribner King  
 Maria Gracia Kohler

Suzanne Bourne Pearson  
 Kathleen Ann Pinard  
 Rodney Clifford Southworth

*Administrative Science-Mathematics*

Donna Curran  
 Lori Alice Moody

*American Studies*

Lori Jane Berger  
 Anne Elizabeth Butter  
 Gregory Paul Cronin  
 Evan Kenneth Dangel  
 Susan Paula Maxwell  
 Grantland S. Rice  
 Douglas Victor Scalise

*Art*

Rachel Brandzel  
 Madeleine Anne-Marie Budnick  
 Anne Elizabeth Butter  
 Valerie Anne Claff  
 Mark Christopher Gordon  
 Leslie A. Greenslet  
 Joan Handweg  
 Annette Susanne Hanzer  
 John Matthew Hartley  
 Juliana Hayden  
 Heidi Langius  
 William Richard Nicholas, Jr.  
 Joyce Maura Sutton  
 Mary Louise Olry Waterman

*Biology*

George Douglas Gibson  
 Michael Peter Hill  
 Kristopher Lund Jensen  
 Cynthia Ann Kelly  
 Philip Ray Lapp  
 John Joseph Pelletier  
 Robert Douglas Sidman  
 Heidi Ann Stonehill  
 Holly Swanson  
 Michelle Elena Toder  
 Sherri Marie Worthen

*Biology: Environmental Science*

Mary Lou Kopas  
 Benjamin E. Wolff III

*Chemistry: Biochemistry*

Paul John Buckley  
 Paul M. Groshek

*East Asian Studies*

Juliet Haven Blake  
 Paula Catherine Collings  
 Jennifer Marie Creamer  
 David W. Lane  
 John William Nelson, Jr.  
 Walter Phelps Bliss Schwab, Jr.  
 Kara Lynn Schwartz  
 Ethan Ron Wiesler

*Economics*

James Patrick Allen IV  
 Sara Blythe Campbell  
 Pamela Jean Christman  
 Alan Kyle Hagstrom  
 Jill Stasz Harris  
 Arlene Lucy Kasarjian  
 John Joseph Kelemen III  
 Elizabeth Ann Libby  
 John Steven Miller  
 Randy Douglas Mitchell  
 Deborah Jane Morse  
 Kenneth James O'Brien  
 Laurie Ellen Petrell  
 Bruce William Raphael  
 Karl H. Ruping  
 Lisa A. Rydin  
 Lars Stuart Smith  
 Rodney Clifford Southworth  
 Karen Anne True  
 Amy Stuart Vander Vliet

*English*

Lynn M. Bellavance  
 Elizabeth Tobey Burnett  
 Betsey Bates Burrell  
 Robin Lynn Chalmers  
 Karen Edith Clark  
 Kathleen Mary Colbert  
 Shauna Louise Cully  
 Kelly Anne Donahoe  
 William F. Donahue  
 Linda M. Elliott  
 John Carmen Fitzpatrick  
 Karen Jo Giammusso  
 Annette Susanne Hanzer  
 Wendy Elizabeth Lapham  
 Sharon-Marie F. Matusik  
 John Richard McGrail  
 Kathryn Elizabeth Paterson  
 Penelope May Perri  
 Cabot Harrison Philbrick

Ann W. Raible

Joyce Leslie Seymour  
 Daniel Steven Shiffman  
 Deborah Anne Spieker  
 Suzanne Lovilla Wahlig  
 Lisa Diane Woods  
 Lynn Marie Wunderlich  
 Ann Katherine Yates

*French*

Yasser Mohamed Alwan  
 John F. Church III  
 Jessica Ruth Gahm  
 Kurt Dee James  
 Carolyn Leigh Kuenne  
 James Blake LeBaron  
 Cynthia C. Lloyd  
 Ann W. Raible  
 Kathryn Ann Reynolds  
 Joyce Maura Sutton  
 Henrietta Adrian Yelle

*Geology*

Linda Charlotte Kindblom  
 Deborah Jeanne Pernice  
 Stephen Stewart Potts  
 Ann Winthrop Thayer

*Geology: Environmental Science*  
 William Woodfill Zuehlke

*German*

Laurie Jean Brown  
 Eve-Lynne Karen Estelle Ermer  
 Ilona Victoria Nagy  
 Deborah Jeanne Pernice  
 Peter Lenker Voskamp  
 Robin Leslie Warren

*Government*

James Joseph Bergera II  
 Jill Bond  
 Scott Alan Carver  
 Diana Dorsey  
 Michael Andrew Heel  
 Timothy Charles Kastrielis  
 Charles Edward McCabe  
 Alec Compton Murray  
 Brian David Norris  
 Nicholas A. Ophuls  
 Kathryn Elizabeth Paterson  
 Lisa A. Rydin  
 Michael Charles Shauck

Daniel Steven Shiffman  
 Karl Ferdinand Stammen, Jr.  
 Robin Ann Venditti  
 Margaret Kendig Wallace  
 Jonathan Earl Yett

*History*

James Pratt Berwick  
 Grace Serizawa Brown-Asgard  
 James Dunbar Campbell  
 Scott Lochman Croll  
 Gregory Paul Cronin  
 Joseph John De Lucia  
 Jonathan Irving Greene  
 Scott Paul Humphrey  
 Harry Walter Kinsley III  
 Michael Stephen Lalikos  
 Mark Peter Leondires  
 Andrew Jennings Maley  
 Charles Edward McCabe  
 Deborah Marcia McKay  
 William Edward Northfield, Jr.  
 A. Scott Perry  
 David Edward Power  
 Douglas Victor Scalise  
 Edward Andrew Stinson

*Human Development*

Louise Jacquelyn Charbonneau  
 Mary Jane Powers  
 Catherine Maria Woodward

*Independent: East Asian Studies  
 and Anthropology*

Jennifer Marie Creamer

*Independent: Russian Studies*

Paula Catherine Collings  
 Robin Ann Venditti

*Mathematics*

Lynn Marie Wunderlich

*Mathematics: Computer Science*

William Michael Kules III

*Music*

Kurt Dee James  
 Cynthia C. Lloyd

*Performing Arts*

Linda M. Elliott

*Philosophy*

Carolyn Leigh Kuenne  
 Paul William Martin  
 Andrea Paula McInnis  
 Ilona Victoria Nagy  
 David Charles Simpson  
 Diane C. Smith

*Physics*

Marc Salvatori De Rosa  
 William Michael Kules III  
 Scott David Olewiler  
 Steven Samuel Shapiro

*Psychology*

Cynthia Louise Ardito  
 Karen M. Barbera  
 Karen Edith Clark  
 Margaret Walker Frymoyer  
 Fran Marcy Gradstein  
 Daniel Joseph Gulizio  
 Lila Primrose Hopson  
 Robert Allen Kenney  
 Karen Elizabeth Kozma  
 Linda Jeannette A. Michaud  
 Caroline Root Moses  
 Kate Leslie Osborne  
 Kathleen Ann Pinard  
 Mary Jane Powers  
 Beth Meryl Schwartz

*Religion*

Marc Hall Doolittle  
 Gregory Stuart Getschow  
 David Seymour Larkin

*Sociology: Anthropology*

Mary Ellen Kim

*Spanish*

Karen M. Barbera  
 Lynn M. Bellavance  
 Christopher J. Brogan  
 Jessica Ruth Gahm  
 Karen Jo Giammusso  
 Michael L. Madigan  
 Lorian O'Keefe  
 Elizabeth Longval Rhoads  
 Nina Jaye Shah  
 Karen Anne True



## Phi Beta Kappa

*Elected in Junior Year*

Karen Elizabeth Kozma  
Judith S. Noyes

*Elected in Senior Year*

James Patrick Allen IV  
Yasser Mohamed Alwan  
Karen M. Barbera  
Suzanne Judith Battit  
Betsey Bates Burrell  
Anne Elizabeth Butter  
John F. Church III  
Karen Edith Clark  
Paula Catherine Collings  
Margaret Walker Frymoyer  
Karen Jo Giammusso  
Fran Marcy Gradstein  
Paul M. Groshek  
Jill Stasz Harris  
Michael Peter Hill  
Lila Primrose Hopson  
Kristopher Lund Jensen  
Cynthia Ann Kelly  
Robert Allen Kenney  
Mary Lou Kopas  
Philip Ray Lapp  
Elizabeth Ann Libby  
Linda Jeannette A. Michaud  
Lori Alice Moody  
Alec Compton Murray  
Ilona Victoria Nagy  
John William Nelson, Jr.  
Scott David Olewiler  
Kate Leslie Osborne  
John Joseph Pelletier  
Mary Jane Powers  
Ann W. Raible  
Grantland S. Rice  
Lisa A. Rydin  
Walter Phelps Bliss Schwab, Jr.  
Joyce Leslie Seymour  
Daniel Steven Shiffman  
Rodney Clifford Southworth  
Heidi Ann Stonehill  
Joyce Maura Sutton  
Amy Stuart Vander Vliet  
Robin Ann Venditti  
Margaret Kendig Wallace  
Catherine Maria Woodward

Sherri Marie Worthen  
Lynn Marie Wunderlich  
Henrietta Adrian Yelle

## Julius Seelye Bixler Scholars

*Class of 1986*

Karen Edith Clark, *Solana Beach, Calif.*  
Karen Jo Giammusso, *Andover, Mass.*  
Fran Marcy Gradstein, *Melville, N.Y.*  
Jill Stasz Harris, *Boulder, Colo.*  
Karen Elizabeth Kozma, *Old Saybrook, Conn.*  
Philip Ray Lapp, *Chester, Vt.*  
Linda Jeannette A. Michaud, *Fairfield, Me.*  
Judith S. Noyes, *Dover, N.H.*  
Scott David Olewiler, *Bethlehem, Pa.*  
Walter Phelps Bliss Schwab, Jr., *Providence, R.I.*  
Lynn Marie Wunderlich, *Limestone, Me.*

*Class of 1987*

James Aloysius Canfield IV, *Stony Brook, N.Y.*  
Jennifer Anne Cole, *Brewer, Me.*  
Janet Elaine Dean, *Hamburg, West Germany*  
William Philip Girard, *Westbrook, Me.*  
Jeanne Anne Guild, *Chester, Vt.*  
Melissa Ann Jenkins, *Gardiner, Me.*  
Kelly Ann Malloy, *Windham, N.H.*  
Louis Augustino Profenno, *Portland, Me.*

*Class of 1988*

Laurel Jeanne Anderson, *Washington, D.C.*  
Noshir Behli Dubash, *Karachi, Pakistan*  
Lori-Ann Jordan, *Pittsfield, Me.*  
Matthew James Reilly, *West Roxbury, Mass.*  
Eric Leonard Swan, *Bloomfield, Conn.*

## Charles A. Dana Scholars

*Class of 1986*

James Patrick Allen IV, *Weston, Mass.*  
Margaret Walker Frymoyer, *S. Burlington, Vt.*  
Michael Peter Hill, *Waterville, Me.*  
Lila Primrose Hopson, *Stratton, Me.*  
Cynthia Ann Kelly, *Earlville, N.Y.*  
Robert Allen Kenney, *Peabody, Mass.*  
Mary Lou Kopas, *Webster, Mass.*  
Lori Alice Moody, *Madbury, N.H.*  
Alec Compton Murray, *Burlington, Vt.*  
Ann W. Raible, *Toronto, Ontario*  
Grantland S. Rice, *Grosse Pointe, Mich.*  
Lisa Ann Rydin, *Hingham, Mass.*

Margaret Kendig Wallace, *Wolfeboro, N.H.*  
Catherine Maria Woodward, *Lexington, Mass.*

*Class of 1987*

John E. Beaudoin, *Biddeford, Me.*  
Michael Cory Davis, *Strong, Me.*  
Michael Thomas Donnellan, *Norwell, Mass.*  
Elizabeth Anne Kotler, *Bronx, N.Y.*  
Timothy Steven Oakes, *Boise, Ida.*  
Steven Carl Runge, *Springfield, Va.*  
Jeffrey Pratt Russell, *Millinocket, Me.*  
Elizabeth Michelle Sedor, *Durham, N.H.*  
Jeffrey David Thaxter, *Marblehead, Mass.*  
Paula M. Williams, *Belmont, Mass.*  
Eric Samuel Zolov, *Hartsdale, N.Y.*

*Class of 1988*

Mehmet Ali Darmar, *Istanbul, Turkey*  
Ann MacDonald Fillback, *North Andover, Mass.*  
Susan Janice Jacobson, *Warwick, R.I.*  
Kenneth Walker Mathews, *Scituate, Mass.*  
Colleen Marie McKenna, *Wilmington, Mass.*  
Ann Elizabeth Mitchell, *Kensington, Md.*  
Kathleen Marie Mulvehill, *Los Angeles, Calif.*  
Elizabeth Ann Murphy, *Andover, Mass.*  
Marya Allison Pick, *Westport, Conn.*  
Linda Grace Robert, *Waterville, Me.*  
Melissa Ruff, *Freeport, Me.*  
Andrew William Sulya, *Bucksport, Me.*  
Katherine Grace Trudeau, *Holcomb, N.Y.*  
Laura Clare Volante, *Lexington, Mass.*  
Kevin Michael Webb, *Belfast, Me.*

## Senior Scholars

Wendy Elizabeth Lapham  
*Fiction Writing: The Short Novel*  
Grantland S. Rice  
*Poetry: Writing and Criticism*

## Ralph J. Bunche Scholars

*Class of 1986*

Grace Serizawa Brown-Asgard, *Townsend, Mass.*  
Barrando Butler, *Hyde Park, Mass.*  
John B. Carlton, *Birmingham, Ala.*  
Angela Holliday Drennen, *Silver Spring, Md.*  
Kelly Mitsuko Frame, *Chicago, Ill.*  
Deborah Marcia McKay, *Bronx, N.Y.*

*Class of 1987*

Christine Lonning Breña, *Bedford, N.H.*  
Philippa Kay Carter, *Pittsburgh, Pa.*  
Leslie Ann Chin, *Brockton, Mass.*  
Dora De La Rosa, *Harlingen, Tex.*  
Charmaine Mary Ilacqua, *North Quincy, Mass.*  
Irene Susan Izquierdo, *Los Angeles, Calif.*  
Courtney A.-M. King, *Indianapolis, Ind.*  
Phuong Kim Lac, *Scarborough, Me.*  
Tanya Yvette Thomas, *Briarcliff Manor, N.Y.*  
Roma Ashok Vasa, *Cherry Hill, N.J.*  
Michael Evaristo Vasquez, *Portsmouth, N.H.*

*Class of 1988*

Roland Louis Albert, *Ledyard, Conn.*  
Michelle Cheeseman, *East Hartford, Conn.*  
Monica Felicia Flowers, *Portland, Me.*  
Vanessa Gayle Hemsley, *New Bedford, Mass.*  
Linda Lee, *Cranston, R.I.*  
Norman Fernandez Navarro, *Easton, Pa.*  
Joi Marie Thompson, *New Rochelle, N.Y.*  
Opal Livia Williams, *Atlanta, Ga.*  
Jocelyn Anzel Wooten, *Dorchester, Mass.*

*Class of 1989*

Maria Louisa Arroyo, *Springfield, Mass.*  
Carla Clarissa Castillo, *Los Angeles, Calif.*  
Darrick Morris Henderson, *Kansas City, Mo.*  
Lawanda Camella Marshall, *Memphis, Tenn.*  
Tiare Danielle White, *Los Angeles, Calif.*  
Lisa Mabelle Wright, *Norfolk, Va.*

## Mayflower Hill Scholars

*Class of 1986*

Lori Cynthia Boyd, *Kennebunkport*  
Linda M. Elliott, *Skowhegan*  
Lila Primrose Hopson, *Stratton*  
David Albert Mace, *Amherst*  
Andrew A. Smith, *Norridgewock*  
Sherri Marie Worthen, *Norridgewock*  
Lynn Marie Wunderlich, *Limestone*

*Class of 1987*

Robert Laurier Aube, *Lewiston*  
Sara Hatice Bengur, *Southwest Harbor*  
Willa Lilan Cobb, *Sangerville*  
Anita Jean Dunton, *Burnham*  
Scott Hunter, *Caribou*

Melissa Ann Jenkins, *Gardiner*  
Cynthia Anne Matrazzo, *Cape Elizabeth*  
John William Moore, *Bridgton*  
Lynn Marie Nadeau, *Madawaska*  
Katherine Ann Wincapaw, *Monhegan*

### **L. L. Bean Scholars**

#### *Class of 1986*

Linda M. Elliott, *Skowhegan, Me.*  
David Albert Mace, *Amherst, Me.*

#### *Class of 1987*

William Philip Girard, *Westbrook, Me.*  
Katherine Ann Wincapaw, *Monhegan, Me.*

#### *Class of 1988*

Cheryl Ann Lemar, *Dresden, Me.*  
Melissa Ruff, *Freeport, Me.*

#### *Class of 1989*

David Spencer Fearon, *New Hartford, Conn.*  
John Michael Girard, *Westbrook, Me.*  
Elaine Allison Kingsbury, *Naples, Me.*

# Index

- Absence, 22, 31  
 Absence from Exams, 41, 42  
 Academic Counseling, 2  
 Academic Honesty, 32  
 Academic Honors, 33  
 Academic Procedures, 40  
 Academic Programs, 34  
 Academic Requirements, 27  
 Academic Review, 41  
 Academic Standing, 21, 40  
 Accreditation, 2, 6  
 ACS Chemistry Major, 64  
 Activities, Student, 9  
 ACT Tests, 14, 15  
 Administration, 194  
 Administrative Science, 44  
 Administrative Science Concentration, 45  
 Administrative Science Quantitative  
   Methods Major, 45  
 Admission, 2, 14  
   Advanced Standing, 15  
   Application Schedule, 14  
   Campus Visits, 14  
   Deposit, 14, 18  
   Early Admission, 15  
   Health Certificate, 15  
   International Students, 16  
   Interviews, 14  
   Nonmatriculated Students, 16  
   Tests, 15  
   Transfer Students, 15  
   Veterans, 15  
 Adult Education (See "Nonmatriculated  
   Students" and "Special Programs")  
 Advanced Standing, 15  
 Adviser, Faculty, 40  
 Alcoholic Beverages, Regulations, 22  
 All-College Distribution Requirements, 27  
 American Studies, 48  
 Ancient History, 51  
 Annual Basic Charges, 18  
 Anthropology, 51  
 Anthropology Concentration, Sociology  
   Major, 158  
 Application Schedule, 14  
 Applied Mathematics, 150  
 Applied Mathematics Concentration, 59, 65,  
   93, 121, 143  
 Applied Music, 131  
 Applied Music Fee, 19, 131  
 Art, 9, 53  
 Art and Music Center, 9, 10  
 Art Collections and Exhibitions, 9  
 Assistants, Departmental, 191  
 Associates in Applied Music, 191  
 Astronomy, 57  
 Athletics, 9  
 Attendance, 22  
 Attendance Deposits, 18  
 Audiovisual Center, 12  
 Auditing Courses, 42  
 Augmented Credit, 44  
  
 Band, 10  
 Bean Scholars, 210  
 Behavior, 22  
 Bermuda Semester, 93  
 Bills, 19  
 Biology, 58  
 Bixler Scholars, 33, 208  
 Black Studies, 63  
 Board Fee, 18  
 Board of Trustees, 169  
 Bunche Scholars, 209  
 Business Administration (See "Administrative  
   Science")  
 Business Matters, 2  
  
 Calendar, College, 216, 217  
 Calendar of Payments, 18  
 Campus Life, 9  
 Campus Visits, 14  
 Career Services, 13  
 Changes of Course, 41  
 Chaplin Commons, 8  
 Charges (See "Fees")  
 Chemistry, 64  
 Chemistry-ACS Major, 64  
 Chemistry-Biochemistry Major, 64  
 Chemistry-Environmental Sciences Major,  
   64  
 Chinese, 67  
 Choir, Chapel, 10  
 Chorale, Colby, 10  
 Class Standing, 40

- Classical Civilization Program, 69  
 Classics, 68  
 Classics-English Major, 68  
 Classics-Philosophy Major, 69  
 Colby College History, 5  
 Colby Community Music Associates, 10  
 Colby Community Music Series, 10  
*Colby Echo*, 11  
 Colby Host Program, 14  
 Colby in Caen Fee, 19  
 Colby in Caen Program, 35  
 Colby in Cork Fee, 19  
 Colby in Cork Program, 36  
 Colby in Cuernavaca Fee, 19  
 Colby in Cuernavaca Program, 34  
 Colby in Dijon Fee, 19  
 Colby in Dijon Program, 35  
 Colby in Lübeck Fee, 19  
 Colby in Lübeck Program, 35  
 Colby in Salamanca Fee, 19  
 Colby in Salamanca Program, 36  
*Colby Perspective*, 2  
 College Board Tests, 14, 15, 17, 27  
 Combined Majors, 29  
 Commencement, May 1986, 198  
 Committees:  
   College, 192  
   Faculty, 192  
   Other, 192  
   Overseers, 175  
 Commons Plan, 8  
 Comparative Literature (See "Literature in Translation")  
 Computer Resources, 39  
 Computer Science, 70  
 Computer Science Concentration, Mathematics, 121  
 Concentration of Studies, 34  
 Concerts, 10, 11  
 Conduct (See "Behavior")  
 Conflict of Exams, 42  
 Corporation, College, 6, 169  
 Courses:  
   Auditing, 42  
   Changes of, 41  
   Election of, 40  
   Key to Numbering, 44  
   Withdrawal from, 41  
 Courses of Study, 44  
 Creative Writing Concentration, English, 80  
 Credit Requirements, 27  
 Credits:  
   Augmented, 44  
   By Examination, 15, 31  
   Transferred, 31  
 Damage to or Loss of College Property,  
   Liability for, 19  
 Dana Scholars, 33, 208  
 Dance (See "Performing Arts")  
 Dean's List, 33  
 Degree Conferred, 6, 33  
 Degree Requirements, 27  
 Degrees and Honors, 33  
 Degrees Awarded, May 1986:  
   Bachelor of Arts, 198  
   Honorary, 203  
 Deposits Required, 18  
 Dishonesty, 32  
 Dismissal, 22, 41  
 Distinction in the Major, 33, 205  
 Distribution Requirements, 27  
 Division Requirements, 28  
 Drama (See "Performing Arts")  
 Drugs, Regulations, 22  
 Early Admission, 15  
 Early Decision, 21  
 Earth Science Option, Geology Major, 93  
 East Asian Studies, 70  
*Echo, Colby*, 11  
 Economics, 72  
 Economics-Mathematics Major, 72  
 Education, 77  
 Election of Courses, 40  
 Emeriti, Faculty, 176  
 Emeriti, Trustees, 171  
 Employment, Student, 2, 21  
 Endowment, 6  
 Engineering, 38, 142  
 English, 79  
 English and American Literature Major, 80  
 English Composition and Literature Requirement, 27  
 Enrollment, 6, 197  
 Environmental Science:  
   Chemistry-Environmental Sciences Major, 64  
   Concentration, Biology Major, 58  
   Option, Geology Major, 93  
 Exams, 42, 216, 217

- Exchange Program Credits, 31  
 Exchange Programs, 34  
 Excused Absences, 22, 42  
 Exemption by Examination, 31  
 Exhibitions, 9  
 Extracurricular Activities, 9
- Faculty, 6, 176  
 Faculty Adviser, 17, 40  
 Faculty, Emeriti, 176  
 Faculty Representatives, 171  
 Family Educational Rights and Privacy Act, 23  
 Fees, Student, 18  
 Field Experience, 30, 38, 87  
 Finances (See "Student Fees")  
 Financial Aid, 2, 21  
 Financial Aid, International Students, 16  
 Financial Aid, Study Abroad, 35  
 Fines, 19  
 Foreign-Language Placement Tests, 15, 17, 27  
 Foreign-Language Requirement, 27  
 Foreign-Language Semesters Abroad, 34  
 Foreign Languages, 125  
 Foreign Study Credits, 32  
 Foreign Study Programs (See "Foreign-Language Semesters Abroad" and "Junior Year Abroad")  
 French, 87  
 Freshman Orientation, 17  
 Freshman Program, 40  
 Freshman Seminar Program, 91  
 Friends of Art, 9
- General Fee, 18  
 General Regulations, 22, 23  
 Geographical Distribution of Students, 197  
 Geology, 92  
 Geology-Biology Major, 93  
 Geology-Chemistry Major, 93  
 Geophysics Major, 93  
 German, 97  
 Glee Club (see "Chorale")  
 Government, 99  
 Grades (See "Marks")  
 Graduate Schools, Preparation for, 13  
 Graduation Requirements, 27  
 Grants and Loans, 2, 21  
 Greek, 107
- Health and Medical Care, 2, 19  
 Health Certificate for Admission, 15  
 Health Policy, 23  
 History, 108  
 History, Ancient, 51  
 History of Colby College, 5  
 Honorary Degree Recipients, 203  
 Honors:  
   Bachelor's Degree with Honors, 33, 204  
 Hour Exams, 42  
 Housing, 8, 18, 23  
 Human Development, 116
- Incomplete Work, 41  
 Independent Majors, 30  
 Independent Study, 30  
 Inquiries, 2  
 Intercollegiate Athletics, 9  
 Interdepartmental Majors, 30  
 Interdisciplinary Studies, 34  
 International Students, 16, 28  
 Internships, 13, 30, 38, 87  
 Interviews for Admission, 14  
 Intramural Sports, 9  
 Italian, 117
- January Program, 27, 30, 117  
 January Program Fee, 19  
 Japanese, 118  
 Jobs, Student (See "Employment")  
 Johnson Commons, 8  
 Judicial Board, 22  
 Junior Year Abroad, 35
- Language Placement, 15, 17, 27  
 Language Requirement, 27  
 Late Registration, 40  
 Latin, 118  
 Leave of Absence, 43  
 Lectures, 10  
 Legal Studies, 119  
 Library, 6, 12  
 Liquor, Regulations, 22  
 Literary Collections, 12  
 Literature in Translation, 120  
 Loan and Payment Plans, 20  
 Loans and Grants, 2, 21  
 Lovejoy Commons, 8

- Major, 29, 30  
 Major, Requirements for (See subject, e.g.,  
     "Economics," "Geology," etc.)  
 Majors Offered, 29  
 Marks, 41  
 Marshals, 191, 204  
 Mary Low Commons, 8  
 Mathematics, 121  
 Mathematics Placement, 17  
 Mayflower Hill Scholars, 209  
 Medical Care, 2, 23  
 Memberships, 6  
 Miscellaneous Charges, 19  
 Modern Foreign Languages, 125  
 Museum of Art, 9  
 Music, 10, 126  
 Musical Activities, 10
- Nondiscrimination Policy, 2, 22  
 Nonmatriculated Students, 16
- Off-Campus Programs, 37  
 Officers of the College, 169  
*Oracle*, 11  
 Orchestra, 10  
 Organizations, Student, 11  
 Orientation for Freshmen, 17  
 Overseers of the College, 172  
 Overseers Visiting Committees, 175
- Parent Loan Programs, 20, 21  
 Pass/Fail, 42  
 Payment of Bills and Fees, 18, 19, 40  
 Performing Arts, 10, 131  
 Phi Beta Kappa, 33, 208  
 Philosophy, 136  
 Philosophy and Religion Major, 136, 151  
 Philosophy-Mathematics Major, 136  
 Physical Education, 141  
 Physical Education Requirement, 28  
 Physics, 142  
 Placement in Foreign Languages, 15, 17, 27  
 Placement in Mathematics, 17  
 Point Scale in Major, 29  
 Points, Quality, 27  
 Points, Quantity, 27  
 Portuguese, 145  
 Practica, Teaching, 77  
 Presidents of Colby College, 5
- Probation, 41  
 Professional Schools, Preparation for, 13, 38  
 Psychology, 145  
 Public Affairs, 2  
 Public Policy, 149  
 Public Policy Concentration, Chemistry, 64
- Quality Requirements, 27  
 Quantitative Analysis/Applied Mathematics,  
     150  
 Quantitative Analysis Concentration, 50, 54,  
     69, 72, 80, 88, 97, 100, 108, 116, 127, 132,  
     137, 146, 151, 158, 162  
 Quantity Requirements, 27  
 Quizzes, 42
- Radio Colby, 10  
 Readmission, 32  
 Records, Student, 2, 23  
 Refunds, 20  
 Registration, 40  
 Regulations, General, 22  
 Religion, 11, 151  
 Religious Activities, 11  
 Requirements for Graduation (See  
     "Academic Requirements")  
 Residence Halls, 8, 23  
 Residence Halls Damage Fines, 19  
 Residence Requirements, 27  
 Residential Commons, 8, 23  
 Returning Students, Requirement for, 32  
 Room Fee, 18  
 Room Reservations, 19, 23  
 Russian, 156
- Scholastic Aptitude Test, 15, 16  
 Secondary School Teacher Certificate, 78  
 Selected Topics, 157  
 Semester Exams, 42  
 Senior Marshals, 204  
 Senior Scholars, 33, 34, 209  
 Social Rules, 22  
 Sociology, 157  
 Spanish, 161  
 Special Programs, 2, 164  
 Standing, Academic, 40  
 Standing, Advanced, 15  
 Statements of Accounts, 19  
 Student Affairs, 2

- Student Association, 11, 22
- Student Employment, 2, 21
- Student Exchange, 31, 34
- Student Fees, 18
- Student Handbook*, 22, 23
- Student Living, 23
- Student Organizations, 11
- Student Records, 2, 23
- Student Representatives, 171
- Student Teaching (See "Practica")
- Student's Program, 40
- Student's Responsibility in Meeting Requirements, 22, 32
- Studio Art Concentration, Art, 54
- Study in Asia Program, 36
- Study in Canada Program, 37
- Study in the British Isles Program, 37
- Study on the Continent of Europe Program, 37
- Summer Programs (See "Special Programs")
- Summer School Credits, 32
- Suspension, 32
  
- Teacher Certification, 78
- Technology Studies, 165
- Tests, 15
- Transcripts, 2, 43
- Transfer Student Requirements, 15, 28, 31
- Transferred Credits, 31
- Trustees Emeriti of the College, 171
- Trustees of the College, 169
- Tuition Fee, 18
- Tuition Payment Plans, 20
  
- Vacations, 216, 217
- Veterans, 15
  
- Warnings, 43
- Withdrawal from College, 20, 43
- Withdrawal from Course, 41
- WMHB-FM, 10
- Women's Studies, 165



# College Calendar 1986-87

## First Semester

Friday, August 29 *through*  
 Tuesday, September 2  
 Wednesday, September 3  
 Sunday, September 7  
 Monday, September 8  
 Friday, September 26 *through*  
 Sunday, September 28  
 Monday and Tuesday, October 20, 21  
 Friday, October 24 *through*  
 Sunday, October 26  
 Wednesday, November 26, at the  
 conclusion of 12:30 classes to  
 Monday, December 1, 8 a.m.  
 Thursday, December 11  
 Friday, December 12  
 Tuesday, December 16 *through*  
 Sunday, December 21  
 Monday, December 22

## January Term

Tuesday, January 6  
 Wednesday, January 7 *through*  
 Tuesday, February 3

## Second Semester

Wednesday, February 4 *through*  
 Friday, February 6  
 Saturday, February 7  
 Monday, February 9  
 Tuesday, February 10  
 Friday, February 13 *through*  
 Sunday, February 15  
 Friday, March 27, 5:30 p.m. to  
 Monday, April 6, 8 a.m.  
 Friday, May 15  
 Saturday, May 16  
 Wednesday, May 20 *through*  
 Monday, May 25  
 Tuesday, May 26  
 Saturday, May 30  
 Sunday, May 31

COOT trips

Orientation program begins

Registration

First classes

Fall Parents Weekend

Midsemester break (no classes)

Homecoming

Thanksgiving recess

Last classes of first semester

Last day for scheduled events

Semester examinations

Make-up examinations (residence halls  
 closed for winter recess)

Orientation

January program

COOT trips

Orientation

Registration

First classes

Winter Parents Weekend/Family Winter  
 Weekend

Spring recess (residence halls closed)

Last classes of second semester

Last day for scheduled events

Semester examinations

Make-up examinations

Baccalaureate

Commencement

# College Calendar 1987-88

## First Semester

Monday, August 31 <i>through</i> Friday, September 4	COOT trips
Saturday, September 5	Orientation program begins
Tuesday, September 8	Registration
Wednesday, September 9	First classes
Monday and Tuesday, October 19, 20	Midsemester break (no classes)
Wednesday, November 25, at the conclusion of 12:30 classes to Monday, November 30, 8 a.m.	Thanksgiving recess
Friday, December 11	Last classes of first semester
Saturday, December 12	Last day for scheduled events
Wednesday, December 16 <i>through</i> Monday, December 21	Semester examinations
Tuesday, December 22	Make-up examinations (residence halls closed for winter recess)

## January Term

Tuesday, January 5	Orientation
Wednesday, January 6 <i>through</i> Tuesday, February 2	January program

## Second Semester

Wednesday, February 3 <i>through</i> Friday, February 5	COOT trips
Saturday, February 6	Orientation
Monday, February 8	Registration
Tuesday, February 9	First classes
Friday, March 25, 5:30 p.m. to Monday, April 4, 8 a.m.	Spring recess (residence halls closed)
Friday, May 13	Last classes of second semester
Saturday, May 14	Last day for scheduled events
Wednesday, May 18 <i>through</i> Monday, May 23	Semester examinations
Tuesday, May 24	Make-up examinations
Saturday, May 28	Baccalaureate
Sunday, May 29	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.



NOTES

## NOTES

## NOTES

## NOTES

## NOTES







Admission Office  
Colby College  
Waterville, Maine 04901



Nonprofit Organization  
U.S. Postal Paid/Permit 39  
Waterville, Maine



3:10 PM













