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Colby College Catalogue

2013-2014

Colby

INQUIRIES

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Accreditation

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

Statement on Nondiscrimination

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, gender identity, 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.

Catalogue Changes

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. Up-to-date information may be found at www.colby.edu/catalogue/.

ABOUT COLBY

Colby is a coeducational, residential undergraduate liberal arts college that confers the bachelor of arts degree. Chartered in 1813, Colby is the 12th-oldest independent liberal arts college in the nation. In 1871 it became the first previously all-male college in New England to admit women. Before World War II trustees voted to move the College from its original site in downtown

Waterville to the 714-acre Mayflower Hill campus, where more than 60 buildings have been constructed since 1937.

With its rigorous academic program and transformational relationships between students and faculty, the Colby experience is characterized by inspired learning and growth, in and outside of classes. Colby is international in its outlook, its program, and the impact of its graduates. Its location in Maine provides unique access to institutions and extraordinary opportunities for engagement. Students choose from some 500 courses and among 54 majors offered, and they have wide flexibility in designing independent study programs, electing special majors, and participating in internships and exchange programs.

Colby values understanding of and concern for others, diversity of thought and culture, open access to campus groups and organizations, and personal and academic honesty. Members of the College community bear a special responsibility, in all of their words and actions, to honor and protect the rights and feelings of others.

Today Colby's 1,800 students, evenly divided between men and women, come from virtually every state and more than 60 nations. Colby was one of the first recipients of the Senator Paul Simon Award for Campus Internationalization, recognizing its emphasis on study-abroad programs, the international diversity of the student body and faculty, and the ways global issues permeate the curriculum. The College is a leader in environmental initiatives, and in April 2013 it was the fourth college or university in the nation to achieve carbon neutrality. Colby has nine LEED-certified buildings and has won numerous environmental awards and honors for its commitment to sustainable practices on campus. (See www.colby.edu/green.)

Alumni, now numbering more than 26,000, live in 75 countries, all 50 states, and in the District of Columbia, Guam, Puerto Rico, and the U.S. Virgin Islands. Alumni remain engaged with the College through the Colby Alumni Network, which includes an online directory and tools, alumni programs, affinity groups, and volunteer opportunities, all offered through the Office of Alumni Relations.

COLBY PLAN: MISSION AND PRECEPTS

Colby is committed to the belief that the best preparation for life, and especially for the professions that require specialized study, is a broad acquaintance with human knowledge. The Colby experience is designed to enable each student to find and fulfill his or her own unique potential. It is hoped that students will become critical and imaginative thinkers who are welcoming of diversity and compassionate toward others, capable of distinguishing fact from opinion, intellectually curious and aesthetically aware, adept at synthesis as well as analysis, broadly educated with depth in some areas, proficient in writing and speaking, familiar with one or more scientific disciplines, knowledgeable about American and other cultures, able to create and enjoy opportunities for lifelong learning, willing to assume leadership roles as students and citizens, prepared to respond flexibly to the changing demands of the world of work, useful to society and happy with themselves.

Colby stands for diversity, for respect for various lifestyles and beliefs, and for the protection of every individual against discrimination. In the classroom and outside, there is freedom to study, to think, to speak, to work, to learn, and to thrive in an environment that insists upon both civility and the free and open exchange of ideas and views. The behavior of individuals may often affect the rights and well being of others, therefore all members of the campus community are responsible for fostering an environment in which teaching, learning, and research flourish.

The Colby Plan is a series of 10 educational precepts that reflect the principal elements of a liberal education and serve as a guide for making reflective course choices, for measuring educational growth, and for planning for education beyond college. Students are urged to pursue these objectives not only in their course work but also through educational and cultural events, campus organizations and activities, and service to others. These precepts, which the College believes are at the heart of a liberal arts education, are as follows:

1. to develop one's capability for critical thinking, to learn to articulate ideas both orally and in writing, to develop a capacity for independent work, and to exercise the imagination through direct, disciplined involvement in the creative process
2. to become knowledgeable about American culture and the current and historical interrelationships among peoples and nations
3. to become acquainted with other cultures by learning a foreign language and by living and studying in another country or by closely examining a culture other than one's own
4. to learn how people different from oneself have contributed to the richness and diversity of society, how prejudice limits such personal and cultural enrichment, and how each individual can confront intolerance
5. to understand and reflect searchingly upon one's own values and the values of others
6. to become familiar with the art and literature of a wide range of cultures and historical periods
7. to explore in some detail one or more scientific disciplines, including experimental methods, and to examine the interconnections between developments in science and technology and the quality of human life
8. to study the ways in which natural and social phenomena can be portrayed in quantitative terms and to understand the effects and limits of the use of quantitative data in forming policies and making decisions
9. to study one discipline in depth, to gain an understanding of that discipline's methodologies and modes of thought, areas of application, and relationship to other areas of knowledge
10. to explore the relationships between academic work and one's responsibility to contribute to the world beyond the campus.

SUMMARY OF COLBY VALUES

Academic Integrity

Intellectual integrity is a fundamental value of all academic institutions and is at the heart of the primary teaching, learning, and research activities of the College. Misrepresenting one's work, using sources without appropriate attribution, and giving or receiving unauthorized aid on assignments and examinations are dishonest acts that violate the core value of intellectual integrity.

Diversity

Colby is dedicated to the education of humane, thoughtful, and engaged persons prepared to respond to the challenges of an increasingly diverse and global society and to the issues of justice that arise therein. The College also is committed to fostering a fully inclusive campus community, enriched by persons of different races, gender identities, ethnicities, nationalities, economic backgrounds, ages, abilities, sexual orientations, political beliefs, and spiritual values.

Campus Sustainability and Resource Conservation

Colby is committed to nurturing environmental awareness through its academic program as well as through its activities on campus and beyond. As a local and global environmental citizen, the College adheres to the core values of respect for the environment and sustainable living. Colby seeks to lead by example and fosters morally responsible environmental stewardship. Environmentally safe practices inform and guide campus strategic planning, decision making, and daily operations. We urge community members to recognize personal and institutional responsibilities for reducing impact on the local and global environment. Finally, we recognize that achieving environmental sustainability will be an ongoing challenge that evolves as we become more aware and educated as a community.

Nondiscrimination

Colby 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, age, sex, sexual orientation, gender identity, religion, 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.

Prohibition of Harassment

Harassment based on race, color, sex, sexual orientation, gender identity, religion, national or ethnic origin, or disability results in loss of self-esteem for the victim and in the deterioration of the quality of the classroom, social, or workplace environment. Neither the law nor College regulation permit harassment as defined in these policies. Both racial and sexual harassment are illegal under state and federal law. Harassment by one's peers, by any student, or by any employee of the College will not be tolerated. Possible penalties for those found guilty of harassment include probation, suspension, expulsion, termination of employment, and civil or criminal lawsuits. Those in positions of authority in all sectors of the College community must recognize that there is always an element of power in their relationships with persons having less authority. Faculty members must be aware that they can unexpectedly find themselves responsible for the instruction or evaluation of any student at the College. It is, therefore, the responsibility of the person in authority not to abuse that power. Relationships between consenting adults that would otherwise be acceptable can pose problems when one of the two has any kind of authority over the other. Such relationships should be avoided.

Prohibition of Sexual Assault

Sexual assault is sexual activity, of any kind, with a person without that person's consent. Colby will not tolerate sexual assault in any form. Sexual assault is an act of violence prohibited, in separate ways, by Maine law and Colby policy. Students found responsible for sexual assault will be subject to disciplinary action, which can include suspension or expulsion.

Residential and Social Life

Because Colby is a residential college, students create a community that is simultaneously intellectual and social. The patterns and programs of social and residential life are administered so as to enhance faculty-student ties beyond the classroom; assure respect for persons and property as well as the individual rights, well being, and dignity of others; promote understanding among all people; and foster personal growth and the opportunity to make lasting friendships. In the conduct of its social life Colby is committed to several principles. First, while not every social event can or should be open to every student, campus social life as a whole should be open and welcoming to all students. Second, students must retain the right to avoid social engagements when they so choose. To this end, departments, residence halls, teams, clubs, and other groups should strive to ensure that participation in social activities is neither formally nor informally required. Third, personal conduct at social events should be governed by respect for the rights and well being of others.

Code of Student Conduct

In accepting membership in the Colby community students agree to conduct themselves in a manner that is consistent with the values of an academic community including but not limited to honesty, integrity, civility, personal responsibility, respect for the

rights of others, and openness in the pursuit of knowledge and the search for truth and, to adhere to the following Code of Student Conduct:

Colby students will not lie, steal, cheat, or engage in dishonest or unlawful behavior or any other behavior intended to inflict physical or emotional harm on another person. Colby students must abide by College policies and comply with directions of College officials acting in performance of their duties. For additional details see Code of Student Conduct in the Student Handbook.

REQUIREMENTS

- Distribution Requirement
- Major Requirement
- January Program Requirement
- Requirements for Returning Students

Summary of Requirements for Graduation

- **Residence:** At least 64 credit hours in four full-time semesters, including the last semester.
- **Quantity:** A minimum of 128 credit hours in at least seven full-time semesters.
- **Quality:** A minimum 2.00 cumulative GPA
- **Distribution** (number of courses):
 - First-Year Writing (1)
 - Foreign Language (up to 3)
 - Arts (1)
 - Historical Studies (1)
 - Literature (1)
 - Quantitative Reasoning (1)
 - Natural Sciences (2)
 - Social Sciences (1)
 - Diversity (2)
 - First-Year Seminars/Wellness
- **Major:** Satisfy requirements of a major
- **January Program:** Complete three January programs, (two for students in residence six semesters or fewer)

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*. Only those seniors who have met all graduation requirements are eligible to participate in the commencement exercises. Students who, because of extreme extenuating circumstances, find themselves unable to graduate with their class, may appeal to the Administrative Committee for permission to march with their class and receive an empty diploma cover.

The following statements define the graduation requirements.

Residence Requirement

Candidates for the degree must earn in residence at least 64 credit hours. They must be resident students at Colby for at least four semesters, including the last semester. A resident student is defined as a full-time student taking at least 12 credit hours and paying tuition charges at the semester rate.

Unless taken as part of an established institutional exchange program, credits earned at another institution while a student is registered concurrently at Colby may not be applied toward graduation requirements.

Quantity Requirement (Credits)

A minimum of 128 credit hours earned in at least seven semesters of full-time college-level study. Among the 128 credit hours, up to 16 may be earned in courses taken on a satisfactory/unsatisfactory basis.

Quality Requirement

At least a 2.00 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 adds .3 quality point per credit hour
- Each minus mark deducts .3 quality point per credit hour

Distribution Requirement

No part of any requirement can be satisfied with the satisfactory/unsatisfactory option.

First-Year Writing

All students, with the exception of incoming transfer students who have completed an equivalent course before entering Colby, must take a first-year writing course (designated W1) during their first year. W1 courses, offered in a variety of subject areas and topics, share a strong emphasis on drafting, argument development, and revision; close focus on individual writing skills and needs; required writing in a variety of forms; frequent professor and peer feedback; and exploration of the ethical, critical, and formal expectations for written work in college.

Foreign Language

This requirement may be met in one of four ways:

1. By attaining before entrance a score of 64 or higher on the SAT Subject Test in a foreign language or in the Colby language placement test taken during orientation, a score of 4 or 5 in Advanced Placement language or literature, a 6 or 7 in an International Baccalaureate higher-level exam or 7 on a standard-level exam. Refer to the section on placement in foreign languages in the Academic Advising and Placement section for information concerning language placement tests at Colby.
2. By successfully completing Colby's intensive language program in Salamanca, Spain, or Dijon, France. The Salamanca language program is available either fall or spring semester; the Dijon program is available in the fall semester only. These programs are open to first-year students, sophomores, and juniors.
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.
4. By successfully completing a previously approved intermediate-level language course at an approved college or university (see Transferred Credits in the Academic Procedures section).

Students whose native language is not English or who have studied a foreign language not taught at Colby may fulfill the requirement by presenting evidence of reading, writing, speaking, and listening at an intermediate level of that language. For a language taught at Colby, confirmation from the chair of the appropriate department must be filled with the Office of the Registrar. For languages not taught at Colby, confirmation must be obtained from the international student advisor in the Dean of Students Office. Documentation or testing may be required.

Distribution Areas

Students are required to pass one three- or four-credit-hour course in each of Areas I, II, III, IV, and VI, and two courses in Area V. Normally, students will be expected to complete these requirements during their first two years. Course descriptions use the letter designations A, H, L, Q, N (and sometimes Lb or OptLb), and S to indicate the area requirement met, if any. (See Key to Courses of Study.)

- **Area I Arts:** Courses in the history, theory, and/or practice of the creative arts. (A)
- **Area II Historical Studies:** Courses that investigate human experience by focusing on the development of cultures and societies as they evolve through time. (H)
- **Area III Literature:** Courses that focus on literary works of the imagination and/or written texts in which ideas and creative or aesthetic considerations play a crucial role. (L)
- **Area IV Quantitative Reasoning:** Courses that focus on quantitative or analytic reasoning about formally defined abstract structures. (Q)
- **Area V Natural Sciences:** Courses that focus on the understanding of natural phenomena through observation, systematic study, and/or theoretical analysis. (N) At least one course taken to satisfy Area V must contain a substantial laboratory component (Lb for required lab; OptLb for optional lab).
- **Area VI Social Sciences:** Courses that focus on theoretically and methodologically directed inquiry into various aspects of human behavior and interaction. (S)

Diversity

Students are required to pass two three- or four-credit-hour courses that are centrally concerned with:

- the structures, workings, and consequences of; and/or
- efforts at political and cultural change directed against; and/or
- progress in overcoming prejudice, privilege, oppression, inequality, and injustice

One of these courses must deal with these issues as they concern the United States (U designation in course description), and one must deal with these issues in a context other than the United States (I).

First-Year Seminars/Wellness Program

Students must attend evening lectures offered for all first-year and new transfer students as part of the extended orientation called the First-Year Seminars. A variety of topics that the College has identified as fundamental health concerns for the college years will be covered. The purpose of the program is to encourage and assist in the development of responsibility for one's own lifestyle through programs centered on mental, emotional, social, physical, and spiritual fitness. Meeting this requirement, which is certified by the Health Center, does not earn academic credit hours. In order to register for second-semester classes, students

must have completed the Web-based AlcoholEdu. In order to register for second-year classes, first-year students must have attended four lectures and completed the AlcoholEdu; midyear entrants must attend three lectures and complete AlcoholEdu. Transfer students have the first two semesters at Colby to attend four lectures and must complete AlcoholEdu in the semester they arrive on campus.

Major Requirement

Each student must satisfy requirements of a major. During the first semester of their sophomore year, before selecting courses for their fourth semester, students may declare a major or minor. A 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 required to declare a major prior to electing courses for their junior year. The respective academic departments and programs specify the courses constituting a major; requirements are 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. A student may change majors at the end of the junior year if the equivalent of at least 12 credit hours with a 2.00 average has been earned in the new major. If in the senior year the average in courses completed toward the major falls below 2.00, the major requirement is not fulfilled and the degree cannot be awarded.

Any student whose major average falls below 2.00 will be placed on probation by the Committee on Academic Standing. A student who fails to regain a 2.00 major average in the subsequent semester has lost the right to continue with that major. Each department or program designates the courses to be calculated toward retaining the major.

Majors Offered

Students may elect majors in the following disciplines:

- African-American Studies
- American Studies
- Anthropology
- Art
- Biology
- Biology–Interdisciplinary Computation
- Chemistry
- Chemistry-Biochemistry
- Classical Civilization
- Classical Civilization-Anthropology
- Classical Civilization-English
- Classics
- Classics-English
- Computer Science
- East Asian Studies
- Economics
- Economics-Mathematics
- English
- Environmental Studies–Interdisciplinary Computation
- Environmental Studies: Policy
- Environmental Studies: Science
- French Studies
- Geology
- Geoscience
- German Studies
- Global Studies
- Government
- History
- Latin American Studies
- Mathematics
- Mathematical Sciences
- Music
- Music-Interdisciplinary Computation
- Philosophy
- Physics
- Psychology
- Religious Studies
- Russian Language and Culture
- Science, Technology, and Society
- Sociology
- Spanish
- Theater and Dance
- Theater and Dance–Interdisciplinary Computation
- Women's, Gender, and Sexuality Studies

Options

These specific options are available within majors:

- Art: Art History
- Art: Studio Art
- Biology: Cell and Molecular Biology/Biochemistry
- Biology: Ecology and Evolution
- Biology: Neuroscience
- Chemistry: Cell and Molecular Biology/Biochemistry
- Chemistry: Environmental Science
- Economics: Financial Markets
- English: Creative Writing
- Mathematical Sciences: Statistics
- Psychology: Neuroscience

Minors

Minors In addition to a major, students may also elect a minor. A minor normally consists of five to seven courses and involves a coherent progression of courses including both introductory exposure to a field of knowledge and advanced work. A minor must include at least four courses in addition to courses taken to satisfy requirements for any major or other minor. Students must maintain a 2.00 average in the minor. Current minors are as follows:

- Administrative Science
- African-American Studies
- Anthropology
- Art
- Chemistry
- Chinese
- Cinema Studies
- Classical Civilization
- Classics
- Computer Science
- Creative Writing
- East Asian Studies
- Economics
- Education
- Education: Professional Certification
- Environmental Studies
- Geology
- German
- Human Development
- Italian Studies
- Japanese
- Jewish Studies
- Mathematics
- Music
- Philosophy
- Physics
- Religious Studies
- Russian Language and Literature
- Science, Technology, and Society
- Theater and Dance
- Women's, Gender, and Sexuality Studies

Major/Minor Limits

A student may declare up to two majors and one minor or one major and two minors. All declarations must be properly approved and filed with the Registrar's Office. Requirements for majors, minors, and options are outlined in the section Courses of Study.

Independent Majors

The option of an independent major is available to students whose academic interests do not match existing majors. A student may design an independent major and submit a detailed written proposal, prepared with the aid of one or two advisors who accept responsibility for the program throughout its course. Many such majors are interdisciplinary; in these cases, two advisors, from different departments, are required. The program must include a balance of lower- and upper-level courses normally totaling one third or more of the total credit hours required for graduation. Implementation requires the written approval of the Independent Study Committee; this approval must be obtained before the end of a student's sixth semester at Colby. Students pursuing independent majors must keep in touch with the committee, which must be notified about any changes in their program; substantial changes must be approved by the committee. The target date for independent major proposals is the 30th day of each semester. Inquiries about independent majors should be directed to the chair of the Independent Study Committee.

January Program Requirement

To be eligible for graduation, each student must complete three January Programs if in residence for seven or more semesters, or two if in residence for six or fewer semesters. First-year students must take a January Program and are given preference in 100-level programs. All students have the option of courses, independent study, or internships.

January Program Mission Statement

The fundamental purpose of the January Program (also known as Jan Plan) is to broaden and extend the learning experience at Colby by offering students distinctive opportunities not ordinarily available during the traditional academic semesters. By definition, January experiences are intensely focused, emphasizing engagement by faculty and students with a single subject matter or experience. While January experiences share the broader learning goals of Colby's curriculum, they are especially concerned with strengthening capacities for innovative thinking, independent work, creativity, intellectual exploration, and experimentation.

January Program Core Elements and Dimensions

Jan Plan experiences typically fall into one of three central areas of content and purpose:

1. *Undergraduate Research and Independent Study*: Offers students opportunities to work closely with Colby faculty on original research or in courses of student-designed independent study under the guidance and supervision of a member of Colby's faculty.
2. *Cross-disciplinary Exploration*: Encourages Colby students and faculty to explore nontraditional subjects and innovative pedagogies and to push the boundaries of the academic disciplines and the traditional classroom.
3. *Career Explorations*: Provides opportunities for students to explore various professional fields and career paths, primarily through funded and unfunded internships and other work experiences both on and off the Colby campus.

Selected courses, designated in the catalogue with "j," are offered during January. January courses are offered for zero, two, or three credit hours. As a rule, no more than three credit hours may be earned in any January.

Because the January Program assures most students considerable flexibility in the 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.

January Program options are:

- *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*.
- *Independent Study*. 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.
- *Internships*. An internship is a carefully monitored work experience in which a student has intentional learning goals. An internship most frequently takes place at an off-campus job site and is monitored by an on-site work supervisor. An internship during January for Jan Plan credit requires completion of an online application and approval in advance by a faculty sponsor and the internship coordinator in the Career Center. A successful Jan Plan internship will receive transcript notation and may earn, with the approval of the faculty sponsor, one academic credit. Complete internship policies can be found at the Career Center website, www.colby.edu/careercenter/.
- *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 credit or fail.

Other than the grades indicated above, marks of I (work incomplete) may be given only in cases in which the student has made an acceptable arrangement with the instructor. Grades of I must be made up within limits set by the instructor and not later than the second day following spring recess.

A full description of January courses is available on the Web in October, and students elect for January at that time. Changes in preregistration may be filed subsequently; however, 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 during Web registration. Except under unusual circumstances, no more than one January Program may be taken each year.

Requirements for Returning Students

A student returning to college after an absence must meet any new requirements for graduation if fewer than 65 Colby credit hours had been earned prior to the absence. If more than 64 credits had been earned, the student may elect to meet either the new requirements or those in effect at the time of initial enrollment.

ACADEMIC HONORS

Dean's List

Eligibility for the Dean's List is limited to the top 30 percent of students, based on semester grade point average as calculated by February 1 for the fall semester Dean's List and by July 1 for the spring semester Dean's List. To be named to the Dean's List, a student with a qualifying average must have earned 15 or more credits in the semester, 12 or more of which are graded credits; he or she must have no mark of I (unless for medical reason or critical emergency), U, WF, or WU; and he or she must have no instance of academic dishonesty in that semester.

Distinction in the Major

This category of honors may be awarded to a student on the specific recommendation of the department. To be considered for the award, the student must have at least an average of 3.25 in the major; many departments stipulate a higher average in the major.

Honors in [Department or Program]

Honors programs are offered in American studies; anthropology; biology; chemistry; computer science; East Asian studies; economics; English; environmental studies; French; geology; global studies; government; history; Latin American studies; mathematics and statistics; music; philosophy; physics; psychology; religious studies; science, technology, and society; sociology; Spanish; theater and dance; and women's, gender, and sexuality studies. Successful completion of an honors program, as determined by the department or program, will enable a student to graduate "With Honors in [Department or Program]." Independent majors may apply for honors to the chair of the Independent Study Committee.

Latin Honors

The degree of bachelor of arts with honors is awarded in three grades: summa cum laude to those whose grade point averages are within the top 5 percent of the graduating class; magna cum laude to those within the top 10 percent; and cum laude to those within the top 20 percent.

Named Scholarships

Academic excellence is recognized at a convocation each fall for the Julius Seelye Bixler, Ralph Bunche, Charles A. Dana, and Strider scholars. Bixler Scholars are the top-ranking students as determined by the cumulative academic record at the end of the preceding year. Dana Scholars are selected on the basis of a strong academic performance and potential leadership. The first-year student with the best academic record at the end of the first year is named a Strider Scholar for his or her sophomore year.

Phi Beta Kappa

In American colleges, election to Phi Beta Kappa is considered the highest undergraduate honor. 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. Phi Beta Kappa certificates may be awarded to members of the three lower classes for distinction in scholarship.

Senior Scholars

This honors program permits a limited number of seniors to devote eight credit hours per semester to a project approved by the Independent Study Committee and pursued under the guidance of a faculty member. Students applying to the Senior Scholars Program will normally be expected to have a grade point average of at least 3.3 in their major. Students submit a midyear report on the project; their final report is judged by three faculty readers. Upon successful completion of the program with a minimum grade of B+, the senior scholar's report is deposited in the College library. Application must be made during the student's junior year. Inquiries should be directed to the committee chair.

Other Honors

Academic departments may recognize students' achievements, according to departmental guidelines, with certificates or other awards.

The names of students who graduate with Latin honors, honors or distinction in major, Senior Scholars status, election to Phi Beta Kappa, or status as Bixler, Dana, or Bunche scholars are printed in the annual commencement program.

ACADEMIC ADVISING AND PLACEMENT

For their first year, students are assigned to faculty advisors through the Office of the Dean of Students. Advisors and advisees establish contact with one another in early summer to help guide course selection for the fall. Advisors meet with students during the orientation period and assist students during the period when courses may be added or dropped from the students' schedules. During the third or fourth semester, when students may elect a major, they will move under direct advisorship of a major department or program. The chair of each department or program designates academic advisors for student majors. Students must elect a major before choosing courses for their junior year.

Faculty advisors are urged to use Colby's 10 educational precepts as a framework for conversations with their advisees. Faculty

advisors, advising deans, coaches of athletic teams in which a student participates, and the student's parent(s) are notified whenever students receive warnings from instructors or are placed on academic probation.

Placement in Mathematics

During orientation first-year students will have the opportunity to attend a mathematics placement meeting with the faculty to discuss their placement. Any student intending to take a mathematics course numbered above 111 should attend. Any student intending to register for a 200-level course should consult with his or her advisor and with the chair of the Department of Mathematics and Statistics.

Placement in Foreign Languages

Students wishing to continue the study of a foreign language at Colby are encouraged to take the College Board SAT Subject Test in that language. The results are used to place the student at the appropriate level. Guidelines for placement in foreign language study are included in the course selection information available to members of the incoming first-year class.

If a student has not taken the SAT Subject test and wishes to continue studying a language, he or she will be placed on the basis of a required placement exam given during the orientation period for new students. Students whose SAT Subject scores are more than a year old at the time of registration also are required to take the Colby placement exam.

Students who have earned a grade of 4 or 5 on an Advanced Placement examination, a 6 or 7 in an International Baccalaureate higher-level exam, or a 7 on a standard-level exam, may be eligible for placement in upper-level language courses.

Students who have had two or more years of language study may receive credit for the first semester of the elementary course of that language only if the appropriate department determines that their preparation is not adequate for a more advanced level.

Placement for students in languages for which no College Board test is available is determined by consultation with the appropriate department.

OPPORTUNITIES TO STUDY OFF CAMPUS

The opportunity to study in another country is an integral part of Colby's educational philosophy. Colby's precepts maintain that students should "become acquainted with other cultures by learning a foreign language and by living and studying in another country or by closely examining a culture other than one's own." Consistent with that precept, off-campus study should

- be part of the student's overall academic plan and should enhance the program of study following the student's return to Colby;
- provide a substantially different cultural experience;
- involve, when appropriate, a language different from the student's own.

The Off-Campus Study Office ensures that Colby's programs abroad, as well as other programs approved by the College, must

- provide an educational experience consistent in quality with the educational experience at Colby and that can reinforce, complement, and broaden a student's educational program;
- contain a substantial, high-quality academic component; and
- provide a cultural experience and, when appropriate, a linguistic experience consistent with the goals stated above. To promote cultural integration, at least one full semester must normally be spent in a single host country.

Colby's financial aid is applicable to Colby programs and portable to other approved programs. The Office of Off-Campus Study works closely with faculty liaisons and an Advisory Committee on Off-Campus Study, which includes faculty, staff, and student members.

The Office of Off-Campus Study helps students make appropriate study plans, preparing students for departure, evaluating programs abroad, administering Colby's programs (see below), assisting with students' reintegration to Colby, and monitoring the program selection and application processes. The office facilitates study abroad as well as study at domestic off-campus programs that are integrated into each major and academic program.

Applications and requests for program approval are processed in advance of the student's enrollment in a program of study away from Colby. Students who transfer credits for full-time study in a non-Colby program are subject to a fee of \$1,000 per semester. Financial aid may be applied, for qualified students only, to Colby programs and approved non-Colby programs.

Students are required to consult their major advisor and the off-campus faculty liaison in their major department while making plans for study abroad. Sophomores will have access to a handbook detailing procedures and listing approved Colby and non-Colby programs early in the fall semester. Applications for off-campus study during the year 2014-2015 are due by March 15, 2014, regardless of the semester for which the student is applying. Colby students normally study abroad for one semester. A 2.7 G. P. A. is required to study abroad, and students on probation of any kind may not study abroad.

Colby-Sponsored Foreign-Language Semesters

Colby offers an opportunity for students to satisfy the College's language requirement and earn a semester's credit by living

abroad and studying the language intensively. These programs are available to sophomores and juniors.

Colby in Salamanca: This program provides the opportunity for students to learn Spanish at the University of Salamanca, one of the oldest universities in Europe. Students reside with families, attend intensive language courses, and have a full schedule of excursions to enrich their knowledge of Spanish life and culture. The program is under the supervision of a resident Colby director and is offered in the fall and spring semesters. Students must have completed Spanish 125 or at least two years of high school Spanish.

Colby in Dijon: This program offers students the opportunity to study French language, history, and art in Dijon, France, at the University of Burgundy. Cultural activities and excursions are included. Students live with French families. To qualify, students normally should have completed French 125 at Colby or have completed two years of high school French. The program is offered in the fall semester only.

Colby-Sponsored First-Year Programs

The College offers the following programs abroad designed specifically for entering first-year students:

Colby in Salamanca: Refer to description above.

Colby in Dijon: Refer to description above.

Colby-Sponsored Programs Off-Campus for Juniors

While courses needed for most liberal arts majors are offered at the College, many students are attracted by the opportunity to study abroad for a comparative examination of their major field or a different perspective on their studies. Such programs are generally undertaken during the junior year. Colby offers study programs in France, Spain, and Russia.

Colby in Salamanca: This program offers complete integration into the Universidad de Salamanca, where students can take courses in any division alongside Spanish students. Students of any major may be accepted provided they have taken at least Spanish 135 and Spanish 231. Participants choose to live with Spanish families or in apartments with Spanish students and agree to speak only Spanish for the duration of the program. The program is offered for the academic year or the fall or spring semester.

Colby in Dijon: For students who have satisfied the language requirement, Colby in Dijon offers advanced French language courses as well as courses in literature and history. Students live with French families and participate in a rich program of cultural excursions. This program is offered during the fall semester only.

Colby in St. Petersburg: This program, offered either semester, is available to students who have had at least two years of college Russian. It is small (maximum five students) and includes a set program of instruction in Russian language (grammar, phonetics, conversation, and composition), literature, and history (readings in Russian and English). Courses are taught by instructors at the St. Petersburg Classical Gymnasium, where Colby students also teach two classes in English to Russian high school students. Students live with Russian families, and a full cultural program is offered, including excursions.

Colby at Bigelow Laboratory for Ocean Sciences: A semester-in-residence program at Bigelow Laboratory in East Boothbay, Maine, for Colby students interested in gaining an in-depth understanding of oceanography and hands-on research experience through immersion in a professional laboratory environment. Available in fall only, the intensive research experience is focused on ocean science within a changing global climate and covers topics such as microbial oceanography, marine biogeochemistry, the ocean's role in the global carbon cycle, molecular approaches to biological oceanography, and pelagic ecology. Implications for public policy are explored within each of these topics. This program offers a unique opportunity for any student interested in becoming a marine scientist.

Other Study-Abroad Programs

In addition to its own programs, the College approves study at a number of institutions and programs throughout the world that meet Colby's standards for academic rigor. A handbook of opportunities that lists all approved programs is available on the Off-Campus Study website and is distributed to all sophomores near the beginning of the fall semester. For programs not administered by Colby, the College requires that students obtain approval for their course of study before the stated deadline; without prior approval, credit cannot be transferred to Colby. Approval forms are available from the Office of Off-Campus Study. For study abroad during the academic year 2014-2015, a preliminary application must be filed with the Off-Campus Study Office by Nov. 15, 2013, and a final application or request for program approval must be submitted by March 15, 2014, or March 1, 2014 in cases requiring petitions. Students receiving financial aid continue to receive that aid if they attend a Colby-approved program.

With the exception of students in Colby's language acquisition programs in Salamanca and Dijon, students who wish to study in a country whose language is taught at Colby must have taken the equivalent of at least three semesters of the language before departure (some programs and majors require more advanced preparation). Students are advised to keep this in mind while selecting courses during their first two years. For study in countries where the language is not taught at Colby, students are required to take at least one course in the host country's language for the duration of their program.

Students should be aware that due to enrollment constraints, they may not be able to study abroad in the semester of their choice and that opportunities to study abroad for the full year are restricted. Colby students must petition for study abroad undertaken in any country for which a U.S. State Department Travel Warning has been issued.

Approved Domestic Programs

Students wishing to participate in approved domestic programs must meet the same deadlines for preliminary and final applications as students who wish to study abroad. These programs are listed in the Handbook of Off-Campus Study Opportunities, available each fall on the Off-Campus Study website.

Opportunities include:

Exchange programs: Colby participates in student exchange programs with Howard University in Washington, D.C., and the Claremont Colleges in Claremont, Calif. 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.

Opportunities to Study and Intern in Washington: Colby students may study and intern in Washington, D.C., for a semester. Students from a variety of majors take advantage of this opportunity. More information is available through the Off-Campus Study Office.

Engineering Programs: Colby has a coordinated dual degree engineering program with Dartmouth College, in which both a bachelor of arts and a bachelor of engineering can be earned. Students spend their first two years and their senior year at Colby and their junior year and a fifth year at Dartmouth. The usual Colby graduation requirements must be met in addition to engineering prerequisites, so careful course planning is important. Colby also offers a liberal arts and engineering dual-degree program with Columbia University in New York. Students complete four years and earn a bachelor of arts degree at Colby and then transfer to Columbia's Fu Foundation School of Engineering and Applied Science for two years to obtain a discipline-specific bachelor of science degree in engineering. See more on engineering dual-degree programs.

Course Exchange: A course exchange program is in effect with Thomas College. Students may obtain information from the registrar.

ROTC: Colby students may participate in Reserve Officer Training Corps programs offered at other Maine sites. Information about these programs is available in the Dean of Students Office.

COLBY WRITING PROGRAM

Mission

At Colby College, writing is a foundational skill and a crucial component of the liberal arts education. Accordingly, the mission of the Colby Writing Program is to support a culture of writing that ensures Colby graduates will write effectively in multiple genres; choose the right style, medium, and evidence for the situation; and participate effectively in professional environments after college. Our overall goal is Colby graduates with distinguished abilities to communicate thoughtfully and skillfully in public forums, civic debates, and their professional lives.

The Colby Writing Program expands the number of writing-intensive courses throughout the curriculum to engage students in repeated opportunities to improve their writing skills across all four years of study. The first phase of the Colby Writing Program involves faculty members from all disciplines who have created introductory writing-intensive experiences; these courses fulfill the W1 requirement for first-year students. The curricular content of each W1 course reflects the disciplines in which it is offered but differs from other courses within a department or program in terms of its writing intensity. The Writing Program also links peer writing tutors from the Farnham Writers' Center to writing-intensive classes through designated writing fellows assigned to introductory courses. Subsequent phases will introduce enhancements and additions to upper-level writing-intensive courses.

First-Year Writing Course (W1) Learning Goals

As a reflection of the College's commitment to writing across the curriculum, all Colby students have a first-year writing requirement. These courses give students the opportunity to cultivate their writing, critical, analysis, and research skills in small, themed courses offered by faculty in a variety of disciplines. First-year writing courses (W1s) will introduce students to a variety of written forms. Some courses may also satisfy major or other distribution requirements.

W1 courses are designed to ensure that students will

- Write frequently in a variety of forms
- Carefully analyze challenging texts
- Develop an effective approach to writing as a process
- Learn how to apply feedback on their writing
- Revise their writing and develop their revision strategies
- Learn how to apply appropriate forms of attribution and citation
- Begin to develop college-level research practices

- Learn the key elements of "information literacy": locating, evaluating, documenting, and integrating appropriate research sources
- Review English grammatical skills
- Learn the meaning and consequences of plagiarism

For more information, see the Colby Writing Program website, web.colby.edu/cwp/.

RESEARCH AND CREATIVE SCHOLARSHIP

Research and other forms of creative scholarship are integral parts of undergraduate education in all of Colby's academic divisions. Major grants from the National Science Foundation, National Institutes of Health, the Andrew W. Mellon Foundation, the Howard Hughes Medical Institute, and other sources have expanded opportunities for students to engage in research in Colby's laboratories and classrooms as well as in the field. Students in the natural sciences are encouraged to participate and present their research at national meetings of science organizations such as the American Chemical Society, American Physical Society, the Geological Society of America, and the Society for Neuroscience. Students in the social sciences have worked on national and international projects supported by the Pew Charitable Trusts and the Ford Foundation.

Colby Liberal Arts Symposium

The Colby Liberal Arts Symposium is held each spring for students to present their work to a broad audience. Begun in 2000 under a grant from the National Science Foundation, the symposium now encompasses departments and programs from across the curriculum. The symposium and associated sessions have grown steadily since their inception and most recently included more than 700 student authors and coauthors.

INBRE

The Maine IDeA Network of Biomedical Research Excellence (INBRE) is funded by the National Center for Research Resources and the National Institutes of Health to advance biomedical research in Maine. Colby is one of 13 partners in Maine INBRE, which in 2009 received a five-year, \$18.7-million grant to continue operations that include extraordinary research opportunities for Colby students and faculty members.

Bigelow Laboratory for Ocean Sciences

Established in 2010, a strategic partnership with Bigelow Laboratory for Ocean Sciences offers expanded educational and research opportunities in marine sciences for students and faculty. The partnership includes curricular innovations that combine scientific research with economic and social policy analysis, a fall semester-in-residence program, January Program courses taught by Bigelow's senior research scientists, and dedicated summer research opportunities.

Senior Scholars

In the 1950s the Colby faculty created the Senior Scholars Program to give students an opportunity to devote significant time to a major project in their senior year. Students who want to explore a single topic in depth can earn eight credit hours for independent research under the guidance of a faculty tutor. Each senior scholar makes a presentation in the spring, and successful project reports become part of the Colby library's permanent collection.

CAPS (Colby Achievement Program in the Sciences)

A summer program supported by a grant from the Howard Hughes Medical Institute helps students from diverse backgrounds develop leadership skills in the sciences. Participants spend six weeks on campus prior to the start of their first year at Colby participating in a science-focused curriculum that combines course work with research in the laboratories of participating faculty mentors.

Research Assistants

During the school year and in the summer, students may be retained as research assistants to work side-by-side with faculty members on projects. Opportunities include laboratory experience, social science research, artistic production and performance, and academic research for publications or scholarly presentations in any discipline. The College has numerous endowed research fellowships for students, and members of the faculty receive competitive grants that include funding for research aides.

Summer Research Retreat

Each summer scores of students remain on campus as summer research assistants working with faculty members in many disciplines. The Colby Undergraduate Summer Research Retreat, begun in 2008, is a two-day retreat in The Forks, Maine, held in July and dedicated to student research. A prominent Colby graduate gives a keynote address, and participating students give short talks or present posters on the first day. The second day is dedicated to whitewater rafting or hiking.

DIVISIONS, DEPARTMENTS, AND PROGRAMS

Academic departments and programs are classified in the following divisions:

Division of Humanities, Professor Kimberly A. Besio, chair, includes the departments of Art, Classics, East Asian Studies, English including Creative Writing, French and Italian, German and Russian, Music, Philosophy, Spanish, and Theater and Dance.

Division of Social Sciences, Professor L. Sandy Maisel, chair, includes the departments of Administrative Science, Anthropology, Economics, Government, History, Psychology, Religious Studies, and Sociology.

Division of Natural Sciences, Professor Julie T. Millard, chair first semester, Associate Professor Russell R. Johnson, chair second semester, includes the departments of Biology, Chemistry, Computer Science, Geology, Mathematics and Statistics, and Physics and Astronomy.

Division of Interdisciplinary Studies, Professor F. Russell Cole, chair, includes the programs in African-American Studies; American Studies; Education; Environmental Studies; Global Studies; Jewish Studies; Latin American Studies; Science, Technology, and Society; and Women's, Gender, and Sexuality Studies.

Integrated Studies, Integrated Studies, first offered in the spring of 1997, is a pioneering program in liberal arts education designed to explore an era or topic from the converging perspectives of several disciplines. The Integrated Studies semester brings together students with similar interests and provides them an opportunity to learn about a subject in depth and to make broad connections between disciplines that will help reveal the essential unity of human knowledge and experience. Structured around clusters of courses, the program is primarily for first-year students. The program and the individual courses are described under Integrated Studies in the Courses of Study section of this catalogue.

KEY TO THE COURSES OF STUDY

Course Designations

Each course is identified by a title, subject, and number: e.g., *English Composition* is *English 115* and would appear on the printed curriculum as *EN115*.

The first digit indicates the course level and the class or classes generally eligible to take the course:

- 000: noncredit January programs; priority to first-year students unless otherwise noted
- 100: priority to first-year students
- 200: open to sophomores and classes above
- 300: open to juniors and seniors
- 400: restricted to seniors

Permission of the instructor may be required to confirm enrollment in a course of a level normally not open to the student's class.

Course Number Conventions

Certain course numbers or ranges are reserved for specific uses:

- | | |
|----------|----------------------------------------------------------------------------------------------------------|
| 090 | Internship |
| 091, 291 | Independent Study (January) |
| _97, _98 | Special topic or one-time offering. The first digit identifies the level at which the course is offered. |
| 483, 484 | Honors Project |
| 491, 492 | Independent Study (fall or spring) |

Prerequisites

Course descriptions include specific prerequisites when these are required by instructors. *Permission of the instructor is required to enroll in any course for which the student has not satisfied a stated prerequisite.*

Curriculum

Departments have the option to offer particular courses in either one or both semesters and/or January. Catalogue descriptions provide this information with bold-faced letters immediately following course numbers:

- f:** course is offered in fall semester

- j:** course is offered in January term
- s:** course is offered in spring semester
- []:** course is not offered in current year

The curriculum for each semester, available at the Registrar's Office and at www.colby.edu/registrar, provides information about the time and place of classes as well as their final examination group numbers. Course enrollment limits and priorities for admission to courses are set by departments; this information is also included in the curriculum from which courses are selected.

Courses listed in the catalogue as well as the curriculum are subject to withdrawal at the discretion of the College administration. Departments reserve the right to limit enrollment in any course and to establish priorities for courses that might be over-enrolled. Faculty on leave are listed at the end the Faculty Directory.

Area Requirements

Catalogue descriptions of courses that fulfill distribution area requirements include a bold-faced capital letter following the number of credit hours:

- A:** Arts
- H:** Historical Studies
- L:** Literature
- N:** Natural Science [for these courses designations of **Lb** (lab) and **OptLb** (optional lab) may also appear]
- Q:** Quantitative Reasoning
- S:** Social Sciences

First-year Writing

Courses that fulfill the First-year Writing requirement are designated by a bold-faced **W1**.

Diversity (I,U)

Courses that fulfill the requirement in Diversity are designated by a bold-faced **U** or **I**. Courses designated with a **U** fulfill the requirement dealing with diversity issues within the United States; courses designated with an **I** fulfill the requirement dealing with diversity issues in a context other than the United States.

Credit Hours

Credit hours published are per term (semester or Jan Plan) and are indicated in each course description as well as in the curriculum. Some courses, listed for variable credit, provide an opportunity for students to earn additional credit by completing extra work as agreed upon with the instructor and when registered appropriately by the specified deadline.

With the exception of "topics" courses, seminars in which subject matter varies, applied music, and independent studies, courses may not be repeated for additional credit.

"Critical Dates"

Critical Dates, a schedule for each academic year, is issued by the registrar and includes deadlines for adding, dropping, and withdrawing from courses; for increasing or decreasing credit in variable-credit courses; and for declaration and revocation of the satisfactory/unsatisfactory option. It is available online.

Two-Letter Abbreviation for Departments and Programs

AD Administrative Science	ES Environmental Studies	FL Philosophy
AA African-American Studies	FR French	PH Physics
AM American Studies	GE Geology	PS Psychology
AN Ancient History	GM German	RE Religious Studies
AY Anthropology	GS Global Studies	RU Russian
AR Art	GO Government	ST Science, Technology, and Society
AS Astronomy	GK Greek	SO Sociology
BC Biochemistry	HI History	SP Spanish
BI Biology	IM Independent Major	TD Theater and Dance
CH Chemistry	IS Integrated Studies	WG Women's, Gender, and Sexuality Studies
CN Chinese	IT Italian	
CI Cinema Studies	JP January Courses	
CL Classics	JA Japanese	
CS Computer Science	LT Latin	
EA East Asian Studies	LA Latin American Studies	
EC Economics	MA Mathematics	
ED Education	ML Modern Languages (Arabic)	
EN English		

DEPARTMENTS, PROGRAMS, AND COURSES OF STUDY

ADMINISTRATIVE SCIENCE

Chair, Professor Randy Nelson

Professors Randy Nelson, Leonard Reich, and Douglas Terp; Visiting Associate Professor Brenda McAleer; Assistant Professor Linwood Downs

The Administrative Science Program is devoted to the study of organizations in American society. In today's climate of intense domestic and international competition it is important to approach organizational problems with rigor, ethical responsibility, historical perspective, and imagination. Students in the Class of 2015 or earlier who wish to explore management from a variety of perspectives may choose the administrative science minor.

Requirements for the Minor in Administrative Science

Administrative Science 212, 221, 311; Economics 133, 134; and two courses chosen from among Economics 331, Mathematics 212 or 231 (psychology majors may substitute the combination of Psychology 214 and 215 for Mathematics 212), and other courses in administrative science.

The minor is not available to members of the Class of 2016 and later and will not be offered after the 2013-14 academic year. Students intending to minor in administrative science should normally take Administrative Science 212 no later than their junior year.

Successful completion of the minor requires a 2.0 average for the courses used to satisfy the minor. None of the required courses may be taken satisfactory/unsatisfactory.

Course Offerings

AD212fs American Business and Management A broad perspective on the ethical, managerial, and economic concerns of American business, including not-for-profit organizations such as colleges and hospitals. Examination of the concerns of American business and management through careful consideration of the issues that managers face in the areas of business responsibility and ethics, strategic planning, human resources, marketing, globalization, and issues related to energy and the environment. Students will gain an appreciation for the complexity of these issues and a basis of understanding to help the students as they begin careers of their own. Based primarily on text, other readings, and classroom discussions. (Please note that the Administrative Science minor is not available to the class of 2016 and later.) *Four credit hours.* S MCALEER, REICH

AD221fs Financial Accounting Introduction to financial accounting and financial statement analysis from the stakeholders' perspective. The statement preparation process is reviewed and analyzed. Accounting concepts, measurement conventions, limitations of financial statements, and the substantive and ethical issues that influence statement preparation and presentation are reviewed. Relates accounting and analysis to microeconomics, finance, and macroeconomic events and public policy, with reference to overlapping concepts and topics. *Four credit hours.* DOWNS

AD231j Introduction to Financial Decision Making Does not count toward the administrative science minor. Five topical areas: (1) planning, including career planning, financial budgeting, and personal federal taxes, (2) consumer credit, costs of credit, and identity theft, (3) major purchasing decisions including housing and automobiles, (4) insurance such as property, health, disability, and life insurance, and (5) investing in stocks, bonds, and mutual funds for now and retirement. *Three credit hours.* LARGAY

AD311f Corporate Finance I An introduction to financial markets, institutions, and instruments. The tools needed for discounted cash-flow analysis, asset valuation, and capital budgeting are developed. The effects of diversification on risk and the relationship between risk and return are considered. *Prerequisite:* Economics 133 and 134. *Four credit hours.* NELSON

AD322s Corporate Finance II An examination of (1) the issues firms face in obtaining long-term financing and establishing a dividend policy, (2) the effects of capital structure on the cost of capital and the value of the firm, (3) international corporate finance, and (4) the use of financial derivatives, including options, to manage financial risk. *Prerequisite:* Administrative Science 311. *Four credit hours.* NELSON

AD333fs Marketing in America Understanding of marketing as a pervasive organizational function. Emphasis is on the processes by which organizations make product, service, and social marketing decisions and on the societal consequences of those decisions. Students develop a broad perspective of marketing principles in American society including topics of marketing and social responsibility, the importance of understanding how marketing affects society, and the impact of marketing on for-profit, not-for-profit, and governmental institutions. Based primarily on text, other readings, classroom discussions, and assignments. *Prerequisite:* Administrative Science 212. *Three or four credit hours.* MCALEER

AD335s Strategic Planning in Business An analysis of the interrelationships among management, marketing, and strategic planning in the business sector. *Prerequisite:* Administrative Science 212. *Three or four credit hours.* DOWNS

AD491f, 492s 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

AFRICAN-AMERICAN STUDIES

Director, Professor Cheryl Townsend Gilkes

Program Faculty and Advisory Committee: Professors Catherine Besteman (*Anthropology*), Cedric Gael Bryant (*English*), Cheryl Townsend Gilkes (*African-American Studies and Sociology*), Jill Gordon (*Philosophy*), Bénédicte Mauguère (*French*), Phyllis Mannocchi (*English*), James Webb (*History*), and Robert Weisbrot (*History*); Associate Professors Margaret McFadden (*American Studies*) and Tanya Sheehan (*Art*); Assistant Professors Chandra Bhimull (*African-American Studies and Anthropology*), Mouhamédoul Niang (*French*), and Laura Seay (*Government*); Associate Dean of Students Tashia Bradley

The African-American Studies Program is an interdisciplinary program of courses organized to provide an overview and introduction to the experiences of peoples of African descent in the United States and to connect those experiences to the literatures, histories, and cultures of Africa and of Latin America and the Caribbean. Courses in the program expose students to classical and contemporary literature, to issues of public policy, to critical debates in history and social science, and to main currents of historical analysis and contemporary cultural expression. Students may elect a major or a minor in African-American studies built upon courses in American studies, anthropology, art, history, literature, economics, government, music, philosophy, religious studies, and sociology. The program exposes students to the history, literature, and cultures of African Americans and people of African descent throughout the Americas and requires exploration of African history, cultures, and artistic expressions. While the African-American Studies Program's use of the phrase African-American includes persons and peoples of African descent throughout the Americas, the program's primary focus is on the literature, history, and culture of people of African descent in the United States and the Caribbean.

Requirements for the Major in African-American Studies

Twelve courses selected from courses specifically focused on African Americans and on peoples and cultures of Africa and the Caribbean. Six required courses: American Studies 276, English 426, History 247; at least one course focused specifically on Africa (e.g., Anthropology 237); at least one course focused specifically on the Caribbean or African-derived cultures in Latin America or the African diaspora (e.g., Anthropology 231); and at least one course focused on art or other aspects of expressive culture. Four or more electives from among the relevant courses in the social sciences, humanities, and relevant interdisciplinary studies programs (e.g., American Studies, Women's, Gender, and Sexuality Studies, English/Creative Writing, Latin American Studies); at least one of the courses should be taken at the 300 or 400 level. Courses not specifically listed may be counted toward the major with permission of the advisor if substantial relevance can be established during a particular semester or in an off-campus program. At least one seminar at the 400 level with a member of the African-American Studies Program faculty where a substantial final paper or equivalent project explores in depth and engages significant debates about an aspect or aspects of African-American life and culture in the United States or the African diaspora. Such courses could include, when the subject material is appropriate and with the permission of the advisor, American Studies 493, English 413 and 493, Music 493, and Sociology 493. Course substitutions and exchanges may be made in consultation with the advisor.

Requirements for the Minor in African-American Studies

Seven courses including American Studies 276; History 247; American Studies 275 or 493; at least one course focused on Africa or the Caribbean; and two courses selected from American Studies 493, Anthropology 231, English 346, 413 (when appropriate), Philosophy 213, Religious Studies 256, or Sociology 252, 355, 357, 358. Course substitutions and exchanges may be made in consultation with the African-American Studies Program advisor.

Interested students also may consider an independent major in Africana studies (a selection of courses combining study of the Caribbean, the Americas, and Africa) or an independent major that combines African-American studies with another relevant discipline or program, especially American studies, anthropology, Latin American studies, or music.

Majors and minors are instructed to inform faculty in various programs and departments that they are African-American studies majors or minors when seeking the permission of an instructor to register for courses restricted to majors in other disciplines or when asking that prerequisites be waived.

Courses That Apply to the African-American Studies Major

American Studies

- 276 African-American Culture in the United States
- 368 Great Books by American Women of Color: From Hurston to Danticat
- 493 Seminar in American Studies: Spike Lee's United States of America

Anthropology

- 217 Race, Class, and Ethnicity
- 231 Caribbean Cultures
- 237 Ethnographies of Africa
- 238 Religions of Africa and the African Diaspora
- 258 Anthropology, History, and Memory
- 341 Culture, Mobility, Identity: Encounters in the African Diaspora
- 398B Religion and Social Change in Contemporary Africa

Art

- 256 African-American Art

English

- 346 Culture and Literature of the American South
- 413A Author Course: Toni Morrison
- 426 African-American Women Writers
- 457 American Gothic Literature

French

- 236 Introduction to the Francophone World: The Americas
- 298 Francophone African Cinema
- 361 Creolization, Culture, and Society in the Indian Ocean Islands

Government

- 255 African Politics

History

- 247 African-American History, from Slavery to Freedom
- 342 Crisis and Reform: American Society and Politics in the 1960s

Music

- 114 Jazz Improvisation
- 118 African Music

Philosophy

- 213 Philosophical Inquiries into Race
- 360 African Philosophies, 1945 to Present

Religious Studies

- 256 The African-American Religious Experience
- 297 The Religious Influences of the Rev. Martin Luther King Jr.

Sociology

- 214 African-American Elites and Middle Classes
- 252 Race, Ethnicity, and Society
- 355 African-American Women and Social Change
- 357 Civil Rights, Black Power, and Social Change
- 358 The Sociology of W.E.B. Du Bois

Women's, Gender, and Sexuality Studies

- 297 Critical Race Feminisms and Tap Dance

Note: Additional courses, often taught by visiting faculty, may be available from time to time as temporary offerings and may be counted toward the major with permission of the African-American Studies Program advisor.

Course Offerings

- [AA214] **African-American Elites and Middle Classes** Listed as Sociology 214. *Three credit hours.* **S, U**
- [AA226] **Sociology of Martin Luther King Jr.** Listed as Sociology 226. *Three credit hours.* **S, U**
- AA231f Caribbean Cultures** Listed as Anthropology 231. *Four credit hours.* **I** BHIMULL
- [AA236] **Religions of Africa and the African Diaspora** Listed as Anthropology 238. *Four credit hours.* **I**
- AA247f African-American History, from Slavery to Freedom** Listed as History 247. *Four credit hours.* **H, U** WEISBROT
- AA252f Race, Ethnicity, and Society** Listed as Sociology 252. *Four credit hours.* **U** GILKES
- AA256f African-American Art** Listed as Art 256. *Four credit hours.* **A, U** SHEEHAN
- AA258s Anthropology, History, Memory** Listed as Anthropology 258. *Four credit hours.* BHIMULL
- AA276s African-American Culture in the United States** Listed as American Studies 276. *Four credit hours.* **S, U** GILKES
- AA297] Critical Race Feminisms and Tap Dance** Listed as WG297. *Three credit hours.* **A, U** THOMAS
- [AA341] **Culture, Mobility, Identity: Encounters in the African Diaspora** Listed as Anthropology 341. *Four credit hours.* **S, I**
- [AA355] **African-American Women and Social Change** Listed as Sociology 355. *Four credit hours.* **U**
- AA357s Civil Rights, Black Power, and Social Change** Listed as Sociology 357. *Four credit hours.* GILKES
- [AA358] **The Sociology of W.E.B. Du Bois** Listed as Sociology 358. *Four credit hours.* **S, U**
- [AA413] **Author Course: Toni Morrison** Listed as English 413A. *Four credit hours.* **L**
- AA491f, 492s Independent Study** Individual study of special problems in African-American studies in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of the instructor and of the program director. *One to four credit hours.* FACULTY

AMERICAN STUDIES

Director, Associate Professor Laura Saltz (*American Studies*)

Advisory Committee: Professors Cedric Gael Bryant (*English*), Debra Campbell (*Religious Studies*), Cheryl Townsend Gilkes (*African-American Studies and Sociology*), and Elizabeth Leonard (*History*); Associate Professors Lisa Arellano (*American Studies and Women's, Gender, and Sexuality Studies*), Margaret McFadden (*American Studies*), Tanya Sheehan (*Art*), Katherine Stubbs (*English*), and Steve Wurtzler (*Cinema Studies*); Assistant Professors Benjamin Lisle (*American Studies and Integrated Studies*) and Daniel Tortora (*History*); Visiting Assistant Professor Jennifer Le Zotte (*American Studies*); Adjunct Instructor Kenneth Eisen

American studies is an interdisciplinary major that enables students to explore the complex interactions of histories, cultures, identities, and representations that have shaped the experiences of people living in the United States. Building on foundational courses in U.S. history and textual analysis, students design their own courses of study, choosing among the program's strengths in visual culture, popular culture, gender and sexuality studies, American ethnic studies, and transnationalism.

American studies majors learn multiple approaches that enable them both to draw on and move between traditional academic disciplines. This interdisciplinary methodology informs all aspects of students' critical thinking about American cultures as they engage in analytical writing, thoughtful discussion, formal oral presentations, and independent research. Our pedagogical goal is to train students to be deeply and critically involved in the texts, forms, and practices that constitute the world around them.

Requirements for the Major in American Studies

The American studies major requires 11 courses—four in American studies (American Studies 171, 393, 493, and one elective);

two in American history (History 131 or 231, and 132 or 232); three in American literature and visual culture (one pre-1900, one post-1900,) and any other American literature course, or a literature in translation course, or a course in visual culture; and two electives above the 200 level, selected from a list of appropriate courses and approved by the American studies advisor.

Of the required courses, History 131/231 and 132/232 and American Studies 171 should be taken before the end of the second year.

The point scale for retention of the major applies to all courses offered toward the major. No requirement for the major may be taken satisfactory/unsatisfactory. No more than five courses taken abroad may be counted toward the major.

Senior Projects

All senior majors will take American Studies 493, which requires them to research, write, and present a significant original project. The presentations are typically made as part of the annual Colby Undergraduate Research Symposium.

Honors Program

Students majoring in American studies may apply during their junior year for admission to the honors program. Permission is required; students must have a 3.5 GPA in the major to be eligible to apply. Successful completion of the work of the honors thesis, and of the major, will enable the student to graduate "With Honors in American Studies."

Attention is called to the major in African-American studies; requirements are listed under "African-American Studies."

Courses From Other Departments That May Be Applied to the American Studies Major

(Not all courses are offered every year; check curriculum for availability.)

Anthropology

- 313 Researching Cultural Diversity

Art

- 293 Asian Museum Workshop: Asian-American Art at Colby
- 353 Contemporary Art, 1914 to the Present
- 493 Seminar (when appropriate)

Education

- 215 Children and Adolescents in Schools and Society
- 231 Teaching for Social Justice
- 235 Multiculturalism and the Political Project
- 332 Practicum in Girls' Development and Education

English

- 255 Studies in American Literary History: Pre-1860
- 256 Studies in American Literary History: Civil War to the Present
- 336 Early American Women Writers
- 341 American Realism and Naturalism
- 344 19th-Century American Poetry
- 345 Modern American Fiction
- 346 Culture and Literature of the American South
- 347 Modern American Poetry
- 351 Contemporary American Poetry
- 353 American Short Story
- 360 The Car in Modern American Literature and Pop Culture
- 364 Buddhism in American Poetry
- 413 Authors Courses (when appropriate)
- 457 American Gothic Literature
- 493 Seminar in American Literature

Government

- 210 Interest-Group Politics
- 211 The American Presidency
- 214 Parties and the Electoral Process
- 273 American Political Thought
- 313 Federalism in American Constitutional Law
- 314 Civil Liberties in American Constitutional Law
- 316 Presidential Electoral Politics
- 318 Money and Politics
- 320 The Rights Revolution and Its Discontents
- 331 Business and American Foreign Policy

- 335 United States-Latin American Relations
- 371 Foundations of American Constitutionalism
- 413 Seminar: Policy Advocacy
- 414 Seminar: Ethics in Politics
- 432 Seminar: United States Foreign Policy

History

- 131 Survey of U.S History, to 1865
- 132 Survey of U.S. History, 1865 to the Present
- 231 American Women's History, to 1870
- 232 American Women's History, 1870 to the Present
- 239 The Era of the Civil War
- 245 Science, Race, and Gender
- 246 Luddite Rantings: A Historical Critique of Big Technology
- 247 African-American History, from Slavery to Freedom
- 336 After Appomattox
- 337 The Age of the American Revolution
- 342 Crisis and Reform: American Society and Politics in the 1960s
- 435 Research Seminar: The American Civil War
- 447 Research Seminar: The Cold War

Philosophy

- 213 Philosophical Inquiries into Race
- 352 American Philosophy

Psychology

- 253 Social Psychology
- 352 Sex and Gender Seminar

Religious Studies

- 217 Religion in the U.S.A.
- 221 Topics in Maine's Jewish History
- 256 The African-American Religious Experience

Science, Technology, and Society

- 271 History of Science in America

Sociology

- 231 Contemporary Social Problems
- 252 Race, Ethnicity, and Society
- 259 Activism and Social Movements
- 273 Sociology of Families
- 274 Social Inequality and Power
- 276 Sociology of Gender
- 355 African-American Women and Social Change
- 357 Civil Rights, Black Power, and Social Change
- 358 The Sociology of W.E.B. Du Bois
- 493 Senior Seminar in Sociology (when appropriate)

Spanish

- 276 U.S. Latina/Chicana Women Writers
- 493B The Latina Body

Women's, Gender, and Sexuality Studies

- 201 Introduction to Women's, Gender, and Sexuality Studies
- 217 Boys to Men
- 232 Queer Identities and Politics
- 311 Topics in Feminist Theory

Course Offerings

AM117j Fundamentals of Screenwriting An introduction to the craft of writing film scripts, with a strong emphasis on screenplay format and the three-act structure. Besides studying films and screenplays, students will complete exercises in character development, scene construction, dialogue, and description. The final project will be a complete script for a short (no

longer than 30 pages) three-act feature film. Formerly offered as American Studies 197. *Two credit hours.* WILSON

[AM120A] Writing about Photographs Though we think of photographs as offering neutral descriptions of the world, they can also encode a point of view and even a political agenda. Focusing on documentary photography, we will explore the fine lines between depiction and commentary, aesthetics and politics, in photographic images. Through frequent writing and revision, students will develop skills of visual analysis and argumentation, and will be introduced to research and the use of sources. *Four credit hours.* **A,W1**

AM120Bs Writing about Place The places we live in reflect and shape who we are. We will explore ways of thinking and writing about place, using the American home as a focal point. We will examine changes in the home as a material structure and imaginative construct, paying particular attention to how place intersects with conceptions of gender, class, race, and sexuality. Students will analyze various forms of culture, historical and contemporary, while practicing writing in a variety of formats. *Four credit hours.* **W1 LISLE**

AM135As New York City: Wearing the World From labor strikers' outfits to hijab bans, the personal dress and appearance of New York City's diverse inhabitants reflected and influenced the city's global economic, political, and cultural status. We will focus on the intersection of public appearance with class, race, ethnicity, gender, and sexuality, using examples such as Jewish assimilatory fashion, Harlem drag balls, glam rock, and post-9/11 Arab-American dress restrictions. Historical analysis, critical writing, and active discussion will be emphasized. Part of the three-course Integrated Studies 135, "New York: Global City." *Prerequisite:* Concurrent enrollment in American Studies 135B and English 135. *Four credit hours.* **H LE ZOTTE**

AM135Bs Space, Place, and New York City Examines historical and contemporary New York City using the twin concepts of place and space. Pivots on the escalating significance of place in a world of modernization and globalization. Explores New York as a "global city"—an economic and cultural control center. Considers how New York capitalists "produce" space near and far, and investigates expressions and consequences (positive and negative) of global capitalism on city streets, how place constructs cultural and political identity, and the role of the built environment in cultivating identity. Discussion-based. Students develop skills of spatial, material, textual, and historical analysis and critical writing. Part of the three-course Integrated Studies 135, "New York: Global City." *Prerequisite:* Concurrent enrollment in American Studies 135A and English 135. *Four credit hours.* **S LISLE**

AM136Af Sex and Family in Postwar America In the decades following the end of World War II, popular representations of romantic love and the American family often promoted ideals of capitalist democracy. We will explore ways in which portrayals of gender and sexualities conformed to, negotiated, or resisted narratives of national identity. Primary texts include paintings, television shows, films, magazines, music, and advertisements. Students will develop skills in visual, textual, and aural analysis, interdisciplinary critical thinking, and dynamic discussion. Part of the three-course Integrated Studies 136 cluster, "America in the Postwar World: 1945-1970." *Prerequisite:* Concurrent enrollment in American Studies 136B and History 136. (Elect IS136.) *Four credit hours.* **A LE ZOTTE**

AM136Bf Material Landscape of Postwar United States We will examine the postwar United States through "things," considering how materiality culturally constructed class, gender, race, and sexuality. We will explore the meanings of objects at all scales; differences and continuities between "high" and "low" design; gendering and racializing of public and private spaces; automobile aesthetics and spatiality; consumption-based progress narratives; and restricted access to postwar abundance. In this discussion-based course, students will develop their skills of material, spatial, visual, and historical analysis and their critical writing skills. Part of the three-course Integrated Studies 136 cluster, "America in the Postwar World: 1945-1970." *Prerequisite:* Concurrent enrollment in American Studies 136A and History 136. *Four credit hours.* **W1 LISLE**

[AM137] Comedy and Tragedy in Depression America The Great Depression produced two powerful but opposing responses in American culture. The 1930s were both a "golden age" of popular comedy and a decade in which images of heroic figures defeated by calamity were wildly popular. We will focus on the visual and sound cultures of the 1930s, including painting, sculpture, photography, advertising, film, music, and radio, and will explore how these forms were used by a wide variety of artists to shape audiences' responses to economic, political, and social upheaval. Special attention to skills of visual analysis and critical writing. Part of the three-course Integrated Studies 137 cluster, "American Stories: Understanding the Great Depression." *Prerequisite:* Concurrent enrollment in English 137 and History 137. (Elect IS137.) *Four credit hours.* **A**

[AM137B] History and Culture in 1930s America An exploration of key historical developments of the years of the Great Depression. What caused the Depression and how did it pose a crisis of faith in capitalism and in the government? And how did Americans respond, creating vibrant new forms of politics and culture? Through analysis of primary historical and cultural texts like films, photos, novels, and varied forms of popular culture, students will develop critical-thinking skills, learn to write clear and precise analytical essays, and practice articulating their ideas effectively. *Prerequisite:* First-year standing. *Four credit hours.* **H,W1**

AM171fs Introduction to American Studies An introduction to methods and themes in American studies, the interdisciplinary examination of past and present United States culture. A wide selection of cultural texts from all periods of American history explore the dynamic and contested nature of American identity. Literary, religious, and philosophical texts, historical documents, material objects, works of art and music, and varied forms of popular culture are studied, with a focus on what it means, and has meant, to be an American. *Four credit hours.* **U ARELLANO, LISLE**

[AM214] African-American Elites and Middle Classes Listed as Sociology 214. *Three credit hours.* **S, U**

AM217f Religion in the United States Listed as Religious Studies 217. *Four credit hours.* **H** CAMPBELL

AM232f Queer Identities and Politics Listed as Women's, Gender, and Sexuality Studies 232. *Four credit hours.* **U** ARELLANO

AM236s Introduction to the Francophone World: The Americas Listed as French 236. *Four credit hours.* **I** MAUGUIERE

[AM241] Cultural Work of American Football Examines the place of football in American culture. Identifies the game's core ideologies through investigations of its origins, development, and major historical crises, paying particular attention to how football constructs gender, race, and nationalism. Students emerge from this discussion-based course with enhanced skills in analyzing material, visual, and literary cultural expression and improved abilities to speak and write cogently and clearly about complex and contested ideas. *Four credit hours.*

AM252s Medicine and Visual Culture Listed as Art 252. *Four credit hours.* **A** SHEEHAN

AM253s Mormons Listed as Religious Studies 253. *Four credit hours.* **H, U** CAMPBELL

[AM255] Women in American Popular Comedy An interdisciplinary examination of the ways that female comedians have used comic genres to advance powerful and influential critiques of American culture and politics, since 1970. Students will learn to situate the humor in historical context; to analyze the formal aspects of comedic performances; and to understand a variety of genres, including stand-up, character comedy, comedy/variety shows, and sitcoms. We will address the particular constraints that gender norms and ideologies place on women participating in a male-dominated form of entertainment and will attend to the ways that female comedians' work tracks ever-shifting and contested notions of gender roles and relations. *Four credit hours.*

AM256f African-American Art Listed as Art 256. *Four credit hours.* **A, U** SHEEHAN

AM258f American Art 1750-1900 Listed as Art 258. *Four credit hours.* **A** SHEEHAN

[AM268] Latino/a Cultural Expressions in Literature and Film Listed as Spanish 268. *Four credit hours.* **L, U**

AM275s Gender and Popular Culture In the 21st century, popular culture is a key site for the dissemination of ideas about gender roles, gender relations, and sexuality. Relying on examples from the end of World War II to the present, students will analyze the use of films, music, advertising, toys, television, magazines, and popular fiction to help construct us as gendered individuals and to sustain systematic gender inequality. Students will write weekly informal papers and longer analytical papers, and will be expected to participate actively in class discussions to develop their analytical capacities and hone oral communication skills. *Four credit hours.* **U** LE ZOTTE

AM276s African-American Culture in the United States An interdisciplinary examination of black cultural expression—including folktales, the blues, gospel music, work songs, jazz, sermons, dance, literature, and social institutions—from the slave era to the present, tracing the stages of development of a distinctive black culture in America, its relationship to the historical, social, and political realities of African Americans, and its role in the cultural formation of the United States. Also listed as African-American Studies 276. *Four credit hours.* **S, U** GILKES

AM285f History of Photography Listed as Art 285. *Four credit hours.* **A** SALTZ

[AM321] Space, Steam, Speed: 19th-Century U.S. Science, Technology, and Culture The 19th century saw watershed changes in ideas about space, time, and power. Astronomy, physics, locomotion are only a few of the means by which the universe was revealed as older, vaster, and more dynamic than previously suspected. Yet, as the case of evolution and racial science shows, scientific theory did not exist in a cultural vacuum. We will examine 19th-century scientific texts, contemporary texts in the history of science and technology, and 19th-century literary and visual texts that interpret the implications of changing concepts of time and space for everyday life. Students will develop skills of analysis in writing and class discussions and will conduct independent research. *Four credit hours.*

[AM334] Film and Society: Films of the 1940s Immersion into the Hollywood films of the 1940s. Using the basic tenets of genre theory—that film genres mediate the general anxieties of a culture—study of a range of genres, including Westerns, film noir, melodrama, and social problem films, as well as the social conditions with which these genres are in dialogue. Of special interest are the ways that World War II and the Cold War affected ideals of masculinity and femininity and a national dialogue about race. Students will (1) learn the basic language for describing film form; (2) read a number of theoretical texts; (3) develop skills of visual analysis; and (4) develop skills in writing clear, persuasive arguments about the films and their contexts. *Prerequisite:* American Studies 171 or 198 (Spring 2011) or Art 112 or Cinema Studies 142 or English 241 or Women's, Gender,

and Sexuality Studies 201. *Four credit hours.* U

[AM335] American Independents: Their Art and Production The conception, content, and production of independent films. On-campus examination of classic independents from the past will be followed by attendance at the Sundance Film Festival in Park City, Utah, in January, where attendance at selected film showings will be supplemented by class meetings. Upon return to campus students will report on and synthesize their observations and experiences. Cost in 2011: \$2,600 for travel and lodging; tickets and food not included. *Prerequisite:* Permission of the instructor. *Three credit hours.* A

[AM355] African-American Women and Social Change Listed as Sociology 355. *Four credit hours.* U

AM357s Civil Rights, Black Power, and Social Change Listed as Sociology 357. *Four credit hours.* S, U GILKES

[AM360] The Car in Modern American Literature and Pop Culture Listed as English 360. *Four credit hours.* L, U

[AM368] Great Books by American Women of Color: from Hurston to Danticat Through both literary and cultural studies lenses, we will read classic works by American women of color, written in a variety of genres, including memoir, poetry, and personal essays, and review selected film adaptations of our books. Study will be chronological, beginning with Hurston and extending to Sapphire, Danticat, and Lahiri, and will include writers representing differences in culture, race, class, religion, and ethnicity. We will address topics such as marginalization versus assimilation, changing attitudes toward family and heritage, the search for a language and a room of one's own, challenges to traditional views of romantic love, sex, and sexuality, and the struggle for identity and social justice. *Four credit hours.* L, U

AM368J Great Books by American Women of Color: from Hurston to Danticat Through both literary and cultural studies lenses, we will read well-recognized, often ground-breaking literature by American women of color who have created new perspectives on American women's lives. Readings will include selections by Hurston, Walker, Morrison, Danticat, Lahiri, Kingston, Alvarez, and Silko. We will address topics such as marginalization versus assimilation, changing attitudes toward family and heritage, the search for a language and a room of one's own, challenges to traditional views of gender roles, class, race, romantic love, marriage, sex, and sexuality, and women's struggles for equality and social justice. *Three credit hours.* L, U MANNOCCHI

AM375f Seminar: Representing Difference in American Visual Culture Asks how American visual culture helped construct racial categories in the 19th and early 20th centuries. Examines painting, sculpture, photography, minstrelsy, spectacles, and early film. Considers how ideologies of class and gender intersect with constructions of blackness, whiteness, Native American, and Asian-American identity. Emphasizes skills of visual analysis. *Prerequisite:* Junior or senior standing. *Four credit hours.* U SALTZ

[AM376] Queer Popular Cultures An interdisciplinary exploration of the vibrant queer cultures created by and for LGBT people in the United States since the Stonewall Riots (1969). Students will learn to analyze a wide range of cultural productions, including works of art, theatrical productions, popular musics, films, television programs, and comics, and to situate them in their historical, cultural, and political contexts. Extensive critical interpretation and writing as well as participation in a substantial group project to increase queer visibility are required. *Prerequisite:* A 200-level or higher course in Women's, Gender, and Sexuality Studies. *Four credit hours.* U

[AM378] American Dreams: The Documentary Film Perspective The American experience as viewed through the lenses of American documentary filmmakers and videographers. Issues of documentary: reality or art, truth-telling or fiction-making, propaganda or objective presentation, responsibility of the filmmaker. A study of different visions of America that documentaries created, from their historical roots (*The Plow That Broke the Plains*, Frank Capra's war documentaries) through classic examples (*High School*, *Thin Blue Line*, *Berkeley in the 1960s*, *Hoop Dreams*) to their most current realizations (*It Was a Wonderful Life*, *Tongues Untied*), which are part of a renaissance in American documentary, born out of the new filmic expression of the most marginalized groups in American society. *Prerequisite:* Senior standing. *Four credit hours.* U

AM393f The Commodification of America Food, clothing, material goods, education, romance, and travel are all commodities in America today. We will examine how the process of commodification and patterns of consumption reflect and affect relations of class, gender, sexuality, race, and ethnicity. We will draw historical and contemporary examples from various media, as well as real and abstract consumer spaces, including department stores, colleges, theme parks, and eBay. Emphasizes analyzing visual objects and historical texts, writing clear and persuasive arguments, and organizing and executing original research projects. *Prerequisite:* Junior or senior standing as an American studies major or a women's, gender, and sexuality studies major or minor. *Four credit hours.* U LE ZOTTE

[AM398A] Interpreting the American Built Environment Explores American studies methodologies through the analysis of built environments. We will read texts from different disciplinary perspectives that examine constructions of gender, race, class, ethnicity, and sexuality as they are inscribed in our built spaces. Students will investigate the history of American studies as a contested field of academic inquiry, develop understanding of cultural studies theory, present the intellectual profile of a significant cultural theorist to peers, and enhance their critical writing skills through a range of assignments. *Four credit hours.*

AM398Bs Fashion, History, and Culture in America From the early days of ready-made clothing in industrializing America to TLC's *What Not To Wear*, fashion has reacted to and reflected political dissent, economic fluctuations, technological advances, and social and artistic movements. Whether created by designers or adapted from the street, trends alter popular perceptions of ideal beauty in connection to class, gender, sexuality, race, and ethnicity. We will investigate the ways in which communal identities and cultural affiliations are sartorially signified by various styles, with an emphasis on visual and historical analysis, active participation in discussion, and original research and writing skills. *Four credit hours.* LE ZOTTE

[AM398C] American Masculinities The construction of gender ideology and archetypes has been a central topic of inquiry within gender and sexuality studies for decades; but most of this work has focused on ideas about females and femininity. Expands the conversation about gender by focusing on constructions of maleness and masculinity. Draws on historical texts, literature, and film to consider constructions of masculinity, representations of masculine subjectivity, and the ways that ideas about maleness serve to structure and inform gender identity and ideology more broadly. *Four credit hours.*

[AM457] American Gothic Literature Listed as English 457. *Four credit hours.* L, U

AM458s American Art in a Global Context Listed as Art 458. *Four credit hours.* SHEEHAN

AM483f, 484s Senior Honors Project Research conducted under the guidance of a faculty member and focused on an approved interdisciplinary topic leading to the writing of a thesis. *Prerequisite:* A 3.5 major average and permission of the program director. *Three or four credit hours.* FACULTY

AM483Jj Senior Honors Project *Noncredit.* ARELLANO

AM491f, 492s 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

AM493s Seminar: Geographies of Play The places where we play are vital (and often overlooked) sites of identity construction and maintenance. We will examine how gender, class, race, sexuality, and nationality are written on our leisure landscapes, exploring particularly how recreational spaces are constructed, controlled, and used; how built environments express complex and often contradictory sets of values; and how users of such spaces variously experience them. Students will learn different approaches to interpreting cultural landscapes, research and write a major paper analyzing a site of play, and present that research at the Colby Liberal Arts Symposium. *Prerequisite:* Senior standing as an American studies major. *Four credit hours.* LISLE

[AM493A] Seminar: Spike Lee's United States of America An in-depth, interdisciplinary exploration of recent American culture through the lens of the African-American filmmaker Spike Lee. Working in multiple genres, Lee has offered compelling and controversial interpretations of the significance of race in shaping all aspects of American life. Students will situate a range of Lee's films in their historical and cultural contexts and will use the tools of film analysis to understand his aesthetic and representational innovations. Each student will research and write a major paper analyzing one of Lee's films and will present that work at the Colby Undergraduate Research Symposium. *Prerequisite:* Senior standing as an American studies or African-American studies major. *Four credit hours.*

ANCIENT HISTORY

In the Department of Classics.

The Classics Department offers courses listed in this catalogue under "Ancient History," "Classics," "Greek," and "Latin."

Course Offerings

AN145j Between Revolution and Tradition: Julius Caesar and Augustus Listed as Classics 145. *Two credit hours.* J. ROISMAN

AN154s Roman History Survey of ancient Roman history and civilization from foundation of Rome to reign of Augustus, its first emperor. Covers major political, social, and cultural trends and events that made ancient Rome one of the most influential civilizations in history. Familiarization with origins and development of the Roman states, social and political institutions, major political and military developments, gender relations, comedy, expansion in the Mediterranean, transition from monarchy to republic to one-man rule, and influence on other civilizations including our own. Students will become familiar with historical and cultural phenomena discussed and will develop analytical and interpretative skills. A second paper is required for the fourth credit. *Three or four credit hours.* H, I J. ROISMAN

AN158f Greek History A survey of Greek history from the earliest times to the Classical period. Includes the Heroic age, the evolution of Greek city-states, the intertwined histories of Athens and Sparta, major political and military developments, gender relations, encounters with non-Greek civilizations, Classical drama, comedy and philosophy, practices and attitudes toward

injustice and inequality, as well as the impact of Greek culture on other civilizations including our own. Students are expected to develop their analytical and interpretative skills of historical and cultural phenomena both in writing and orally. A second paper is required for the fourth credit. *Three or four credit hours.* **H, I** J. ROISMAN

[AN234] In Search of a Strong Man: Greece in the Fourth Century Listed as Classics 234. *Three credit hours.* **H, I**

[AN342] The Good, the Bad, and the Mad: Early Imperial Rome Seminar to familiarize students with major aspects and characters of the first emperors of Rome and their impact on their contemporaries. Covers ancient sources for early imperial Rome, transition from Republic to monarchy, Augustus's moral legislation and Roman slavery, Tiberius and the politics of accession and treason trials, conflicting views of Gaius Caligula, Caligula and Claudius and the Jews of Alexandria, Claudius and the 'rule' of imperial women, Nero, the great fire and the Christians, and the first Jewish war. Students will develop analytical and interpretative skills through oral presentations and argumentation and by writing an in-depth research paper. *Four credit hours.* **H**

AN351s Law, Society, and Politics in Ancient Athens Examines Athenian law and litigation in their social and political context. Discusses the origins and development of Athenian law, concepts of justice, and how Athenian trials were conducted. Analyzes historical cases of homicide, assault, sexual misconduct, tort and property, and political and communal misconduct. Examines the rhetoric of presenting a case in court. Students will construct mock trials in which they play the roles of prosecutors, defendants, and jurors; and will develop analytical and interpretative skills through oral presentations, argumentation, and writing an in-depth research paper. *Four credit hours.* **H** J. ROISMAN

AN356f Alexander the Great Listed as Classics 356. *Four credit hours.* **H** J. ROISMAN

ANTHROPOLOGY

Chair, Professor Mary Beth Mills

Professors Catherine Besteman and Mary Beth Mills; Assistant Professors Chandra Bhimull, David Strohl, and Winifred Tate

Anthropology is the scientific and humanistic study of cultural, physical, historical, and linguistic differences and similarities among humans. The discipline also seeks to understand and explain contexts of social inequalities by investigating power dynamics and identity constructions such as nationality, class, race, gender, and ethnicity. The program at Colby offers an introduction to cultural anthropology's field methods, scope, and critical comparative analysis. Students receive training in anthropological theory and methodology and in the discipline's engagement in solving social problems; firsthand experiences and participation in field programs investigating cultural diversity are encouraged. The department offers a major and a minor in anthropology.

Requirements for the Major in Anthropology

Eleven courses, including: Anthropology 112, 313, 333, and one advanced seminar taken in the second semester of the senior year and chosen from courses at the 400 level; one culture area course normally selected from Anthropology 231, 237, 242, 246, 261, 264, 297/8 and one topics course normally selected from Anthropology 217, 236, 244, 256, 258, 297/8 (consult your advisor for appropriate selections); five elective courses, including at least two at the 300 level or equivalent. In addition to Anthropology 112, a maximum of one other anthropology course taught at the 100 level may be counted toward the major. A maximum of one course selected from the list of electives (see "Other Applicable Courses" below) cross-listed with or offered by other departments may be counted toward the major.

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

Honors in Anthropology

Seniors majoring in anthropology may apply for the honors program during the first two weeks of the fall semester. In addition to securing a faculty sponsor and department approval, the student must have a 3.25 overall grade point average and a 3.60 grade point average in the major. The program involves independent research conducted in Anthropology 483, 484. Honors normally will be taken for six to eight credits over two semesters, and the final product will be a thesis of 50 to 70 pages of superior quality.

Requirements for the Minor in Anthropology

Six courses, including Anthropology 112; one culture area course normally selected from Anthropology 231, 237, 242, 246, 261, 264, 297/8 and one topics course normally selected from Anthropology 217, 236, 244, 256, 258, 297/8 (consult the department for appropriate selections); and three additional courses in anthropology, two of which must be at the 300 or 400 level. In addition to Anthropology 112, a maximum of one other anthropology course taught at the 100 level may be counted toward the minor.

The point scale for retention of the minor applies to all courses offered toward the minor. No courses for the minor may be taken satisfactory/unsatisfactory.

Attention is called to the major in classical civilization-anthropology (requirements are listed in the "Classics" section of the catalogue).

Note: Anthropology 112 fulfills both the social sciences area (S) and the diversity (I) requirements. Subsequent courses, requiring 112 as prerequisite, do not carry those designations.

Courses From Other Departments, of Which One Course May Be Elected Toward the Anthropology Major or Minor

American Studies

- 275 Gender and Popular Culture
- 276 African-American Culture in the United States

English

- 348 Postcolonial Literatures

Latin American Studies

- 473 Research Seminar: Historical Roots of Violence in Modern Latin America

Philosophy

- 213 Philosophical Inquiries into Race
- 314 Karl Marx and Marxist Philosophical Thought

Sociology

- 355 African-American Women and Social Change

Course Offerings

AY112fs Cultural Anthropology Introduction to the study of human societies and cultures through the concepts and methods of anthropology. Course material will (a) explore the great diversity of human social and cultural arrangements through the investigation of cultural communities around the world and the distinct ways their members experience and understand their lives and (b) investigate the larger historical, political, economic, and symbolic frameworks that shape contemporary human societies and cross-cultural interactions worldwide. Assignments emphasize clarity, concision, and coherence of written and oral arguments, as well as control over and understanding of course content. *Four credit hours.* **S, I** FACULTY

AY119j The Anthropology of Utopias Examines classic utopic and dystopic literature, philosophy, anthropology, art, and film from Plato to the present. Utopian literature involves anthropological reflection about the range of possibilities for human community and related anthropological themes of human social and cultural variability, conflict, and cooperation. Critically explores different utopian and dystopian discourses as vehicles for thinking about a world in crisis and its possible futures, as well as the effects these have on contemporary debates about politics and governance, citizenship, new technologies, media, family, and more. *Three credit hours.* **S** HRISKOS

[AY135] World at Play We explore play as a field of activity that both refracts and constitutes cultural values as well as social and political relations. Through sociocultural and linguistic analyses of joking, pranking, and other playful acts in our own and other cultures, we will illuminate how others make sense of the world and consider the possibilities of play to incite or hinder social change. Previously offered as AY197A (January 2013). *Three credit hours.* **S, I**

[AY175] Ordering the Cosmos Ancient Greece provided many foundations of Western cultural and intellectual history. We will ask how Greeks understood their world as we explore the "cosmos" (which is Greek for "order" or "arrangement") of their making. Grounding an inquiry in literary texts and taking into account domains from the theological to the social and ethnographic, we ask how various systems of thought worked to produce order in their world. Topics include cosmology, religion and magic, sexuality, culinary practices, and the Greeks' interest in cultural difference. *Four credit hours.* **L**

[AY176] Greece: Ancient Sites and Their Visitors The sites (and sights) of ancient Greece have held enormous significance for visitors, from ancient times through the modern era. Explores the range of meanings that Greek antiquity has held for different groups historically and up to the present. Through an intensive, month-long study, students will consider a variety of sites in Athens and nearby centers such as Delphi, Olympia, Epidauros, and Mycenae. Includes travel to Greece. Examines a variety of questions related to the experience and representation of classical Greek sites. Part of the Integrated Studies Program. *Prerequisite:* Integrated Studies 175 or permission of the instructor. *Three credit hours.* **H**

[AY212] Human Rights and Social Struggles in Global Perspective Listed as Global Studies 211. *Three credit hours.*

[AY217] Race, Class, Ethnicity Explores race, class, and ethnicity through comparative study of the diverse experiences, histories, and life conditions of indigenous peoples, immigrant groups, diasporas, religious minorities, and oppressed classes in

various local and global contexts. Analysis of social, cultural, economic, and political forces that developed historically and function at present to maintain racialized, ethnic, and class inequalities. Also examines modes used for seeking political empowerment, economic justice, cultural survival, integrity of identity, and recognition of human rights. *Prerequisite:* Anthropology 112. *Four credit hours.* **S, I**

AY222s Maine's Musical Soundscapes: Ethnography of Maine Listed as Music 222. *Four credit hours.* **A** ZELENSKY

AY231f Caribbean Cultures Considers Caribbean people, places, products, and the webs of domination and resistance that formed and transformed the region and its diasporas. Ethnographies, films, food, music, memoir, and other texts tackle topics like empire building and dismantling; colonialism and postcolonialism; decolonization and displacement; development and underdevelopment; commodification and consumption; labor, revolution, and liberation. Cross-cultural and cross-temporal navigations develop an anthro-historical sensibility about the Caribbean's pivotal place in the world. Also listed as African-American Studies 231. *Prerequisite:* Anthropology 112 or American Studies 276. *Four credit hours.* **I** BHIMULL

AY236f Illegal Drugs, Law, and the State Drawing on legal and political anthropology, we will examine the legal regimes and cultures of control that target the commerce and consumption of illegal drugs. We will consider the evolution of these policies, their role in the construction of the state, and their impact in a variety of historical moments and social worlds. Case studies will include Prohibition, cocaine, medical and recreational use of marijuana, and alternative forms of political power facilitated by the drug trade, with a special focus on Latin America. Students will gain critical reading and presentation skills and will refine their writing and research skills through the production of an original case-study research project. *Prerequisite:* Anthropology 112. *Four credit hours.* TATE

[AY237] Ethnographies of Africa An introduction to the continent of Africa, its peoples, and its many social worlds, beginning with a survey of the place (geography) and the ways in which Africa's inhabitants have been defined (classifications of language, race, and culture). Social and cultural diversity within the continent are examined through ethnographic case studies. Issues include experiences of economic change, political conflict, the creation of new identities and cultural forms in contemporary African societies, and perceptions of Africa in Western thought and history. *Prerequisite:* Anthropology 112. *Four credit hours.* **I**

[AY238] Religions of Africa and the African Diaspora Examines African religions in Africa and their movement to and history in the New World. Ethnographic and historical sources investigate the legacy of slavery and its effects on African diaspora religions. Cases may include Cuban Santeria, Haitian Vodou, Candomble in Brazil, and Rastafarianism in Jamaica. Debates about syncretism, creolization, and related diasporic processes will be addressed. Emphasis on continuity, change, and the creative role of religious practice in the articulation of African identities in the New World. Students engage these topics through group and individual work, including both oral and written assignments. *Prerequisite:* American Studies 276 or Anthropology 112. *Four credit hours.* **I**

AY242s Anthropology of Latin America: City Life An introduction to anthropological research on Latin America, with a particular focus on contemporary urban life. Cities attract migrants seeking new forms of communal life, educational, and economic opportunities and escaping war. We will examine the transformation of gender roles, political participation, and cultural production. Goals include learning to apply an anthropological lens to discussions of and gaining a basic knowledge of issues facing contemporary Latin America. Students will gain critical reading and discussion-facilitation skills and will refine writing skills through the production of review essays. *Prerequisite:* Anthropology 112. *Four credit hours.* TATE

AY244f Anthropology of Religion Introduces students to the anthropological study of religion, focusing on the lived experience of religion in a variety of historical, social, and cultural contexts. Examines religious symbols, ritual, possession, magic, and the relationship between religion and modernity. Cross-cultural investigation of diverse religious phenomena through ethnographic case studies, such as witchcraft in Sudan, voodoo in Brooklyn, and women's participation in the mosque movement in Egypt. Students will use concepts learned in class to design and carry out an independent research project on a relevant topic of their choosing. *Prerequisite:* Anthropology 112. *Four credit hours.* **I** STROHL

AY246s Engaging Muslim Worlds Introduces students to the anthropology of Muslim societies. We will examine the ways that anthropologists and Muslims have made sense of Islam as a global religion and its local manifestations in different cultural contexts. Through reading works by anthropologists, journalists, and activists, students will consider key theoretical approaches to the study of pluralism, the relationship between religious knowledge and practice, the Islamic revival, syncretism, and modernity. We will investigate these issues in places as varied as Lebanon, Pakistan, Indonesia, and Mayotte. *Prerequisite:* Anthropology 112. *Four credit hours.* **I** STROHL

AY256f Land, Food, Culture, and Power An examination of cultural and political aspects of land and other resource use in contexts of culture contact and/or social change, drawing from a variety of ethnographic examples in different parts of the world. A focus on varied subsistence and resource management systems explores how local forms of livelihood have been incorporated into and challenged by national and global economic relations and structures through processes of colonization and the growth of transnational capitalism. *Prerequisite:* Anthropology 112. *Four credit hours.* **U** MILLS

[AY257] From Communism to Consumerism Listed as East Asian Studies 257. *Four credit hours.* **S**

AY258s Anthropology, History, Memory Anthropologists have depicted cultural systems as timeless, paying limited attention to how historical experiences produce, and how they are shaped by, everyday beliefs and actions. Examines the significance of history for anthropological understanding and vice versa. Investigates how different cultures construct the past and how the past shapes everyday lives, our own and others. Explores sites such as myths, monuments, bodies, and archives. Questions what is the past? How is it present? How do societies remember? How do they forget? Topics include technology, time, travel, commemoration, war. Formerly offered as Anthropology 298B. *Prerequisite:* Anthropology 112 or a 100-level history course. *Four credit hours.* BHIMULL

AY261f Japanese Language and Culture Listed as East Asian Studies 261. *Four credit hours.* S, I ABE

AY262s Music in Life, Music as Culture: Introduction to Ethnomusicology Listed as Music 262.
Noncredit. A ZELENSKY

[AY264] China in Transition: An Anthropological Account An exploration of cultural, historical, and social elements that were China in the past, and their transformation in the present, with a focus on the impact of China's socialist revolution upon both rural and urban family and social life and the new directions China has taken since the economic reforms of the 1980s.
Four credit hours. S, I

AY268s Politics of Satire and Humor in Modern China Listed as East Asian Studies 268. *Four credit hours.* S, I ZHANG

AY276s African-American Culture in the United States Listed as American Studies 276. *Four credit hours.* S, U GILKES

AY297] The New African Americans African immigrants to the United States come from extremely diverse backgrounds and their experiences here vary. Offers perspectives on the experiences of particular groups of African immigrants in the United States through film, fiction, autobiography, guest speakers, and academic scholarship. We will study the experiences of Africans who come as refugees, who are second generation (children raised here with African immigrant parents), who are 'third culture' students (Africans attending U.S. universities), and who are artists who work primarily in the United States. *Three credit hours.* BESTEMAN

AY298s Corruption and Anti-corruption: Theory and Practice Gives an anthropological and interdisciplinary overview of corruption in real-world settings. Materials engage questions about culture, livelihoods, ethics, law, deception, and morality. Examines diverse theoretical models and definitions of corruption. Explores the forms and dynamics of corruption in different case studies; diverse institutional meanings, processes, and consequences of corruption; anti-corruption responses; and representations of corruption in film, art, and popular culture. *Four credit hours.* I KHALIL

AY313fs Researching Cultural Diversity Focus on ethnography as both the central research strategy of anthropologists and the written text produced by such research. Examines anthropological methods of data collection and ethnographic writing as these encompass not only the discipline's historical focus on localized communities but also contemporary understandings of connections to global processes, the analysis of complex inequalities, and a reflexive and engaged relationship with the human world. Explores practical strategies for conducting ethnographic research, including interviewing, observation, and other modes of qualitative data collection, the ethical issues presented by such research, and the application of analytical and theoretical models.
Prerequisite: Anthropology 112 and a 200-level anthropology course and sophomore standing. *Four credit hours.* STROHL, TATE

AY333fs Contemporary Theory An analysis of the contemporary state of cultural anthropology through the investigation of contemporary theoretical approaches of central importance to the discipline. Examination of key theoretical concepts and their relevance for designing research questions, generating ethnographic perspectives, and building anthropological knowledge. Special attention to political economy, symbolic anthropology, poststructuralism, reflexive anthropology, postmodernism, and feminist and postcolonial anthropology. Assignments include both written and oral modes of analysis; strong emphasis on discussion and collaborative debate. *Prerequisite:* Anthropology 112 and a 200-level anthropology course and junior or senior standing. *Four credit hours.* BESTEMAN, BHIMULL

AY341f Culture, Mobility, Identity: Encounters in the African Diaspora Use of text, film, food, and music to examine how African and African-descended people made and remade the modern world. Surveys how past and present cultural practices dialogically shaped the formation, transformation, and flows of the diaspora. Attention to the dynamics of circulation, contact, exchange, and estrangement facilitates travels through the Afro-Atlantic world. Inquiry into archives and other sites of memory enables consideration of the scale, scope, and impact of black action and imagination. *Prerequisite:* Anthropology 112 or American Studies 276. *Four credit hours.* S, I BHIMULL

[AY348] Postcolonial Literatures Listed as English 348. *Four credit hours.* L, I

AY352s Transnational Social Movements: From Internationalism to Occupy Listed as Global Studies 352. *Four credit hours.* S RAZSA

[AY353] Globalization and Human Rights in China Listed as East Asian Studies 353. *Four credit hours.* S

AY361s Militaries, Militarization, and War Examines the ways in which military conflict and institutions shape and are shaped by cultural, economic, and political forces in contemporary societies, especially in the Americas. Topics include the role of military service in creating and reinforcing gender norms, citizenship, and national identities; the ways in which war and militarized violence are experienced and commemorated; and ongoing controversy over counterinsurgency, internal defense, and modern forms of warfare. Students will develop their ethnographic skills through research and presentations. Formerly offered as Anthropology 398B. *Prerequisite:* Anthropology 112. *Four credit hours.* S TATE

AY363s Secrecy and Power This seminar examines the use of secrecy in political, religious, and social contexts. Students will engage with theoretical, ethnographic, and historical texts to trace the development of key analytical, methodological, and ethical issues concerning the anthropological study of concealment. Topics will vary according to student interest but may include transparency, surveillance, publicity, privacy, passing, argots, codes and ciphers, dissimulation, esotericism, and epistemology. Students will complete an independent research project on the use of secrecy in a historical or social context of their choosing. *Prerequisite:* Anthropology 112. *Four credit hours.* I STROHL

[AY371] Japanese Language, Gender, and Sexuality Listed as East Asian Studies 371. *Four credit hours.* I

AY373f The Anthropology of Gender and Sexuality Gender and sexuality represent fundamental categories of human social and cultural experience; in every human society, understandings about gender and sexuality constitute powerful aspects of individual identity that shape and are shaped by key aspects of social relations and cultural belief. Yet specific beliefs and social structures vary tremendously across cultures. An investigation of the varied ethnography of gender and sexuality as well as important theoretical concerns: how meanings are attached to the human body, production and reproduction of gender hierarchies, and processes by which gender and sexual meanings (and associated social forms) may be transformed or contested in societies. *Prerequisite:* Anthropology 112 and one other anthropology course. *Four credit hours.* U MILLS

AY397Af Public Anthropology An exploration of innovative ways in which anthropology is used for proactive, public engagement in policy implementation and transformative social action. We review the history of disciplinary efforts at public engagement and experiment with our own approaches to engagement using ethnography, cultural critique, and collaborative methodologies. Students will develop oral and written communication skills through individual and collaborative projects, experiment with different ethnographic genres, and assess the effectiveness of different approaches to public engagement. *Prerequisite:* Anthropology 112. *Four credit hours.* BESTEMAN

AY397Bf Human Trafficking: Concepts, Problems, Responses Human trafficking and modern-day slavery are human rights violations that remain disturbingly widespread in today's world. Trafficking in human beings occurs on every continent; it involves men, women, and children coerced into unfree and exploitative activities: agricultural labor, sex work, military conflict, and more. Case-based readings and assignments enable students to analyze actual trafficking situations and assess appropriate responses. By developing their own research-based action plan, students practice real-world problem solving, oral and written communication skills, and the collaborative decision-making processes critical to policy implementation. *Prerequisite:* Sophomore or higher standing. *Four credit hours.* KHALIL

AY437f Media, Culture, and the Political Imagination Listed as Global Studies 437. *Four credit hours.* RAZSA

AY451s Ethnicity, Nationalism, and the State in Europe Listed as Global Studies 451. *Four credit hours.* RAZSA

AY462s Global Mobilities: Movements, Modernities, Citizenships In today's world, dramatic flows of people, goods, and ideas enable claims to new (and newly imaginable) identities while at the same time challenging familiar norms and social structures. Ethnographic case studies from Asia, the United States, and elsewhere explore the diverse ways in which contemporary modernities, citizenships, and mobilities constitute dynamic fields of social meaning as well as critical arenas of cultural, political, and social struggle. Students will design and carry out a significant independent research project exploring course themes resulting in a substantive analytical paper and an oral presentation. *Prerequisite:* Anthropology 112, one 300-level or two 200-level anthropology courses, and senior standing. *Four credit hours.* MILLS

[AY474] Anthropology as Public Engagement An exploration of innovative ways in which anthropology is used for proactive, public engagement in global, national, institutional, and local information networks, program planning, policy implementation, and transformative social action. Examined are past, present, and envisioned future engagements in various social fields spanning several disciplines, including economic development, environmental protection, labor relations, education, tourism, health care, human rights, gender equity, indigenous rights, state polity and law, nongovernmental organizations, popular media, and social movements. *Prerequisite:* Junior or senior standing as an anthropology major. *Four credit hours.*

AY483f, 484s Honors in Anthropology *Prerequisite:* Senior standing, admission to the honors program, and permission of the supervising faculty member. *Three or four credit hours.* FACULTY

AY491f, 492s 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

ARABIC

In the Department of Modern Languages.

Courses in Arabic are offered through Modern Languages and use the ML prefix before the course number.

Course Offerings

[ML121] Elementary Modern Standard Arabic IA An introduction to Modern Standard Arabic for students with no previous knowledge of the language. Designed to develop all four skills—listening, speaking, reading, and writing—through a proficiency-based, student-centered approach. Students will develop accuracy and fluency in pronouncing and writing Arabic script, gain basic knowledge of vocabulary and grammar, and explore the ethnic, linguistic, and religious diversity of Arabic culture. Nongraded. *Prerequisite:* Completion or concurrent completion of the college language requirement and permission of Professor John Turner. *Three credit hours.*

[ML122] Elementary Modern Standard Arabic IB A continuing introduction to Modern Standard Arabic for students with previous exposure to the language. Designed to further develop all four skills—listening, speaking, reading, and writing—through a proficiency-based, student-centered approach. Students will hone accuracy and fluency in pronouncing and writing Arabic script, expand knowledge of vocabulary and grammar, and explore the ethnic, linguistic, and religious diversity of Arabic culture. Nongraded. *Prerequisite:* Modern Language 121, completion or concurrent completion of the college language requirement, and permission of Professor John Turner. *Three credit hours.*

[ML123] Elementary Modern Standard Arabic IIA An introduction to Modern Standard Arabic for students with previous exposure to the language. Designed to expand all four skills—listening, speaking, reading, and writing—through a proficiency-based, student-centered approach. Students will hone accuracy and fluency in pronouncing and writing Arabic script, expand knowledge of vocabulary and grammar, and explore the ethnic, linguistic, and religious diversity of Arabic culture. Nongraded. *Prerequisite:* Completion or concurrent completion of the college language requirement and permission of Professor John Turner. *Three credit hours.*

[ML124] Elementary Modern Standard Arabic IIB Continues Modern Standard Arabic instruction for students with previous exposure to the language. Designed to further develop all four skills—listening, speaking, reading, and writing—through a proficiency-based, student-centered approach. Students will hone accuracy and fluency in pronouncing and writing Arabic script, expand knowledge of vocabulary and grammar, comprehend simple texts, and explore the ethnic, linguistic, and religious diversity of Arabic culture. Nongraded. *Prerequisite:* Modern Language 123, completion or concurrent completion of the college language requirement, and permission of Professor John Turner. *Three credit hours.*

ART

Chair, Professor Peter Harris

Associate Chair, Assistant Professor Gary Green

Professors Sharon Corwin, Bevin Engman, Michael Marlais, Harriett Matthews, Véronique Plesch, David Simon, and Ankeney Weitz; Associate Professors Garry Mitchell, Tanya Sheehan, and Scott Reed; Assistant Professors Bradley Borthwick and Gary Green; Adjunct Instructor Nancy Meader; Faculty Fellow Mary Hart

The Department of Art offers an integrated curriculum of art history and studio courses. Students engage formal analysis and critical thinking in creative practice and the acquisition of visual literacy. Both courses of study are based on the recognition that works of art of any period are related to the social, political, and cultural concerns of that period.

In art history courses students learn to translate visual experience into written and oral expression through the identification and contextual interpretation of art. Students are engaged not only in the classroom but also through firsthand interaction with objects in the Colby College Museum of Art. Students acquire familiarity with historical traditions, research and curatorial skills, and art historical literature.

In studio courses students learn to translate ideas and experience into visual expression through the physical exploration of diverse methods and media. Students gain comprehensive knowledge of the formal processes and vocabulary associated with the practice of creating art. Students develop the capacity for adaptive problem solving and aesthetic judgment in order to express themselves clearly in a visual language.

Requirements for the Major in Art

Any two of the following three courses: Art 111, 112, 173. Art 131 and one course in any three of the following four groups:

1. Art 311, 313, 314

2. Art 331, 332, 333
3. Art 351, 352, 353
4. Art 376

And three additional graded art courses (of three or more credits), which may be art history or studio courses in any proportion, making a total of nine courses.

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

Students planning to continue the study of art or art history in graduate school should confer with their advisors to be sure that they have planned a substantial and adequate course of study. Art history graduate programs generally require reading proficiency in two foreign languages.

Attention is called to the interdisciplinary major in American studies.

Requirements for the Concentration in Studio Art

For students who are fulfilling the major in art, the studio concentration is offered to provide a broadly founded studio sequence that will assist in the development of skills and strengthen portfolios for any anticipated graduate studio work. The studio concentration must include at least a four-course sequence in painting, printmaking, sculpture, or photography among the requirements for the major. Additional requirements are Art 221 and 222 or equivalent (except in photography when 221 and 222 are replaced by 285 and another studio course of choice) for a total of 12 courses. Students are strongly encouraged to complete Art 131 during their first year. In addition, every effort should be made to complete the drawing requirement as early as possible, allowing advanced studio work to build upon that experience.

Requirements for the Concentration in Art History

For students who are fulfilling the major in art, the art history concentration is offered to prepare the student for graduate work in the field. In addition to the standard requirements for the major, art history concentrators must take each of the survey courses (Art 111, 112, 173) and two additional art history courses, making sure to have at least one in each of the four distribution areas listed under requirements for the major. Art history concentrators are required to take an art history seminar at the 300 level or above, for a total of 12 courses.

Requirements for the Minor in Art

An art minor is available and should be constructed according to the student's interests and on the advice of an Art Department faculty member. The art minor requires at least seven art courses, including Art 131 (or 161), two of the following: 111, 112, 173; and four additional courses at the 200 level or above.

Course Offerings

AR111f Survey of Western Art An examination of the history of the Western tradition of art from cave painting through the end of the Middle Ages. Through lectures, small discussion sections, museum visits, provides an introduction to the descriptive and critical analysis of works of art in both their formal and material makeup as well as their dependency upon and/or interrelationship with cultural, religious, economic, and historical trends. *Four credit hours.* **A** MARLAIS, PLESCH

AR112s Survey of Western Art An examination of the history of the Western tradition of art from the late Middle Ages to the present. Through lectures, small discussion sections, and museum visits, provides an introduction to the descriptive and critical analysis of works of art in both their formal and material makeup as well as their dependency upon and/or interrelationship with cultural, religious, economic, and historical trends. *Four credit hours.* **A** MARLAIS, PLESCH

[AR113] Photography: A Historical Introduction Unlike traditional introductory photo courses, this one will proceed through the application of a variety of processes that trace the medium's history. From the making of cameraless photographs using the cyanotype process popular in the mid-19th century to the creation and use of pinhole cameras, opportunities to explore the excitement and alchemy of some of photography's simplest methods and materials. No camera is needed. Nongraded. Cost for materials: \$95. *Two credit hours.*

AR114j Pottery An introduction to forming clay by pinching, making slabs and coils, and wheel throwing; decorating and glazing; and firing in an electric kiln. Historical and theoretical issues will be discussed. Nongraded. Cost for materials: \$60. *Two credit hours.* **N.** MEADER

AR117j Introduction to Art Conservation and Preservation An exploration of the issues and practices of the conservation and restoration of works of art. Theoretical discussions will be balanced by practical examples. The role of conservators, the systems they employ, and the relationship between art and science will be explored. Students will be responsible for case studies, many of which will involve examination of original works of art in the galleries and storage areas of the Colby College Museum of Art. Also includes visits to local museums and Colby chemistry labs. No prerequisite, but interest in art history or studio art is advantageous. *Two credit hours.* **ROTH-WELLS**

[AR118] Introduction to Figure Painting An introduction to painting the figure and its environment. Classes will cover information on preparing supports, setting up palettes, and working from the model. Topics include basic drawing skills, working in black and white, traditional figure painting practices, and *alla prima* techniques. Out-of-class work is essential. Nongraded. Estimated cost for materials: \$150. *Two credit hours.*

AR120s Seeing and Writing Explores through writing our encounters with the visual world, which take place in our daily lives, in the classroom, in museums, and elsewhere. Our assumption will be that writing about a visual experience or a work of art is an act of interpretation that requires creative and critical skills. By completing a series of structured assignments, students will develop a variety of those skills, including visual analysis, argumentation, revision, and research planning. *Four credit hours.* **A,W1** SHEEHAN

[AR121] Words and Images: Writing about Art Focuses on description, analysis, and interpretation of visual art, with the collections of the Colby Museum of Art as the primary subject matter. Students will learn to look at artworks analytically and describe them eloquently; locate, evaluate, and use appropriate research materials; write clearly and succinctly; formulate a thesis and supporting argument; evaluate personal, professional, and peer writing for its stylistic strengths and persuasiveness; offer constructive feedback on other students' work; understand the value of revision; understand and avoid plagiarism. *Four credit hours.* **A,W1**

AR131fs Foundations in Studio Art The prerequisite for all upper-level, two-dimensional studio electives, a rigorous, project-based studio course. Study of the principles of composition, foreshortening and comparative measurement, value/tonal and color through the use of various materials including paper, graphite, charcoal, collage, tempera and acrylic paint. Personal and group critiques provide feedback for growth. Outside work is essential. Grading process includes midterm and final portfolio reviews. No prior experience necessary. *Four credit hours.* **A** HART, MITCHELL, REED

AR134j Creating Your Own Photographic Book In addition to learning the history and contemporary practice of photographic bookmaking, students will become proficient in the creating, sequencing, and layout of their own work. They will learn the basic hardware tools involved — scanning and designing on a computer — as well as the necessary software involved, including Adobe Photoshop. Central to the course and the learning goals is the understanding of the literature of photography; how one photograph informs another and how the sequencing and layout of pictures creates the overarching content of the book. Nongraded. *Two credit hours.* GREEN

AR151j Art of the Monotype: Methods for Painterly Printmaking Monotypes are one-of-a-kind prints created by transferring to paper an image that has been painted, drawn, or photocopied on a plate made of plexiglass or another material. Transfer is accomplished by using an etching press, hand rubbing, and other techniques. Direct, immediate, and often surprising images result. Students will explore materials and their applications, and there will be step-by-step demonstrations of various imaging techniques. Each student will make a portfolio of unique prints. The monotype process is accessible to students with any level of artistic experience. Nongraded. Materials cost: \$70. *Two credit hours.* MITCHELL

AR161f Sculpture I An introduction to basic sculpture concepts through projects that involve specific formal ideas. Emphasis is placed on gaining an understanding of materials and techniques as a means of introducing these formal concepts. The primary materials and techniques introduced are string as implied line, plaster as both a subtractive and additive medium, and wood construction. The objectives are clearly stated before each project and at the completion of each there is a group discussion of all the work. The final requirement is an individual critique of the work assigned during the semester. Sculpture I is required for the subsequent levels of sculpture. *Four credit hours.* **A** BORTHWICK

AR162s Sculpture II Basic sculpture concepts continue to be presented through projects that involve specific formal ideas and new techniques. Emphasis is placed on gaining an understanding of materials and techniques as a means of introducing these formal concepts. Wood and stone carving are introduced; at times the materials are optional, giving the student the opportunity to decide what is appropriate for a given project. The objectives are clearly stated before each project and at the completion of each there is a group discussion of all the work. The final requirement is an individual critique of the work assigned during the semester. *Prerequisite:* Art 161. *Four credit hours.* BORTHWICK

AR173f Survey of Asian Art to 1400 Introduces the arts and cultures of Asia from the prehistoric period to 1400 CE, with due attention paid to basic art-historical methods and techniques. Lectures focus on critical analysis of artistic style, technique, expression, subject matter, iconography, and patronage. Students learn about the history and beliefs of Asia, including Hinduism, Islam, Buddhism, Confucianism, and Shinto; at the same time, they enhance their visual literacy skills, including recognizing the cultural forces underlying viewing expectations and experiences. Students develop and demonstrate these skills through weekly quizzes, a paper, and two examinations. *Four credit hours.* **A** WEITZ

AR174s Survey of Asian Art, 1400 to the Present Introduces the arts and cultures of Asia from 1400 to the present, with due attention paid to basic art-historical methods and techniques. Lectures focus on critical analysis of artistic style, technique, expression, subject matter, iconography, and patronage. Students learn about the history and beliefs of Asia, including Hinduism, Islam, Buddhism, Confucianism, and Shinto; at the same time, they enhance their visual literacy skills, including recognizing the cultural forces underlying viewing expectations and experiences. Students develop and demonstrate these skills through weekly quizzes, a paper, and two examinations. *Four credit hours.* **A** WEITZ

AR197fs Censorship Uncovered: Blogging for the Center for Arts and Humanities The theme of censorship will be covered through films, documentaries, art exhibits, and lectures from invited speakers, filmmakers, artists, photographers, and writers such as Salman Rushdie, Cavah Zahedi, and Trevor Paglen. Students are expected to attend five films, talks, or art exhibits, and will learn how to blog about them. Nongraded. *One credit hour.* DIONNE, LESSING, TIMME

AR211f Student Docent Program Focusing on museum education, school outreach, public speaking, and museum tour design and implementation, students are prepared to provide educational experiences to children and adults. Students examine museum education through practical opportunities to teach in the museum and local schools as well as through pedagogical models. Lectures from curators of the Colby College Museum of Art supplement museum education theory with intimate knowledge of the museum's collection. Nongraded. *Prerequisite:* Art 112 and permission of the instructor. *Two credit hours.* LESSING, TIMME

[AR212] Student Docent Program Following training in public speaking and pedagogical strategies for teaching children and young adults about works of art, students will conduct lessons related to the Museum's collection in local school classrooms. Nongraded. *Prerequisite:* Permission of instructor. *One credit hour.*

AR221f Drawing I Still lifes and large setups are used to explore the graphic elements of line, mass, value, texture, and space using the dry media of conte crayon, compressed charcoal, vine charcoals, graphite, and charcoal pencils. The objective is to understand and develop skill with each medium as the graphic elements are broken down and explored through classwork. Compositional choices and visual awareness are stressed. Daily out-of-class drawing assignments reinforce class work. Two final portfolios are required: one for in-class work and one with the daily out-of-class work. *Prerequisite:* Art 131. *Four credit hours.* BORTHWICK

[AR222] Drawing II Introduction to figure drawing. The first two weeks are a review of Drawing I using still lifes. Then we move into working directly from a model. The objective is to grasp the basics of the figure using the graphic skills developed in Drawing I. Stress is put on observation and visual retention using different approaches to gesture. Using gestures to begin each class the student sees position and movement, then, with contour drawing, form is introduced. We work into 60-minute drawings that involve all the graphic skill developed in Drawing I. *Prerequisite:* Art 221. *Four credit hours.*

AR234fs Printmaking I Study of the language of relief printmaking. Five projects are given that point to specific demands of this language. Students will make editions of all five of these problems. *Prerequisite:* Art 131. *Four credit hours.* REED

AR235s Printmaking II: Introduction to Intaglio Techniques Concentration on drypoint, non-acidic tool usage, etching, aquatint, and softground. Students will make plates using these techniques and then print editions from them. Out-of-class work is essential. *Four credit hours.* REED

AR241f Painting I A rigorous, project-based introduction to oil painting as both a process and medium. Students acquire an understanding of advanced color theory and its perceived behavior in invented compositions and observed still lifes. They gain an understanding of how formal analysis drives the creative process and allows for clear, personal expression. Individual and group critiques provide feedback for growth. Outside work is essential. Evaluation process includes midterm portfolio and final interview and portfolio reviews. No prior experience necessary. *Prerequisite:* Art 131. *Four credit hours.* HART

AR242s Painting II Continues the project-based involvement with oil painting as both a process and medium. Students explore the figure through self-portraits, *plein air* landscape painting, and an in-depth investigation of abstraction through tempera, collage, and interpreted still life. They deepen their understanding of how formal analysis drives the creative process and allows for clear, personal expression. Individual and group critiques provide feedback for growth. Outside work is essential. Evaluation process includes midterm portfolio and final interview and portfolio reviews. *Prerequisite:* Art 241. *Four credit hours.* HART

[AR251] Five Centuries of French Art: From Saint Louis to the Sun King French art from the 13th through the 17th century. Painting, sculpture, and architecture, as well as other pictorial media such as manuscript illumination, prints, tapestry, and enamel are studied, and links with historical and cultural movements are explored. Important themes that are the political uses of art and French national identity. Possible reading in French for French studies majors. Written assignments develop visual literacy and the ability to articulate in-depth analyses of works of art and their production context. *Four credit hours.* A

AR252s Medicine and Visual Culture Explores the relationship between medicine and Western visual culture from the 18th century to the present. Lectures and assignments discuss the development of scientific illustration, medical themes in the fine arts, the arts in clinical practices, and visual technologies of medicine. Designed to introduce students in the humanities and social sciences to the culture of science, while offering premedical students an important opportunity to think critically about images and imaging in relation to human health and disease. Students are expected to attend lectures, participate in discussions, complete several writing assignments, and engage with original artworks at the Colby College Museum of Art. *Four credit hours.* A SHEEHAN

AR256f African-American Art Surveys African-American art, from the 19th century to the present. Covers a range of visual media, including painting, sculpture, prints, photography, and contemporary performances. Considers the ways in which artists

and scholars have defined "African-American art" in relation to Euro-American and African cultural production as well as to the evolving social and political history of people of African descent in the United States. Students are expected to attend lectures, participate in discussions, complete several writing assignments, and engage with original artworks at the Colby College Museum of Art. *Four credit hours.* **A, U** SHEEHAN

AR258f American Art 1750-1900 Surveys the arts of the United States, from the late colonial period to the turn of the 20th century. Situates the images, visual practices, and artistic styles of this period within their social, historical, and cultural contexts. Topics include art and (inter)nationalism, portraiture and the self, images of war, the American landscape, art and popular culture, race and representation, and conceptions of the modern artist. Particular attention will be paid to the role that artistic production and consumption played in constructing American social identities and culture across the long 19th century. Students are expected to attend lectures, participate in discussions, complete several writing assignments, and engage with original artworks at the Colby College Museum of Art. *Four credit hours.* **A** SHEEHAN

AR261f Sculpture III In the first half of the semester, sculpture projects are presented with open-ended requirements in scale and materials. The objective is to tap into the resource of ideas and technique established in Sculpture I and II. After the completion of these first pieces, welding is introduced using the oxyacetylene process. There are technical exercises for welding mild steel, metal shaping, and surface finishing, all aimed toward establishing a technical freedom with metal. A group critique every two weeks and an individual critique for the final. *Prerequisite:* Art 162. *Four credit hours.* BORTHWICK

AR262fs Sculpture IV Further exploration of sculptural techniques and concepts. Out-of-class work is essential. *Prerequisite:* Art 261. *Four credit hours.* BORTHWICK

[AR271] Modern European and American Architecture The built environment, both architecture and urbanism, from the late 18th century to the 20th century. Themes include architectural design and aesthetics, the influence of technology on design, and the function of architecture in an industrial society. *Three or four credit hours.* **A**

AR276s Zen and the Arts in Asia An introduction to Zen philosophy, history, and practice, with an emphasis on the ways in which the religion has transformed the aesthetic outlook and artistic production in China, Japan, and the United States. Through class discussions, group projects, and individual writing assignments, students hone their skills of textual and visual analysis by actively "reading" a variety of art forms through the lens of Zen concepts and practices. Students achieve a basic competency in East Asian historical development and Buddhist religious thought, as well as learning about the aesthetic implications of belief, including an examination of how their own cultures and belief systems color their experiences of the arts. *Four credit hours.* **A, I** WEITZ

AR281s Photography I An introduction to the tools, materials, and techniques for making wet-process, black-and-white photographs. Coverage of camera operation, use of a light meter in determining proper exposure, film processing, and printing. In addition to technique—and at the core of this course—will be a series of assignments, slide lectures, video presentations, and class discussions involving the theories and processes inherent in the comprehension and practice of using photography as a language of personal creative expression. *Prerequisite:* Art 131 or 138. *Four credit hours.* GREEN

AR282f Photography II: Intermediate Black-and-White Photography Provides further exploration of the materials, techniques, and ideas covered in Photography I, while introducing more advanced methods, materials, and equipment. In addition, each student will complete assignments and a semester-long project that explores and further defines his or her own particular photographic process and personal vision. Through class lectures and discussions, critiques of student work, and the viewing of images and videos, the course will continue to investigate photography's potential as an expressive artistic medium. *Prerequisite:* Art 281. *Four credit hours.* GREEN

AR285f History of Photography An introduction to the major aesthetic and cultural debates surrounding photography. Investigates aesthetic styles, historical questions about whether a mechanical medium can produce art, what forms of evidence or witnessing photographs provide, and how photographs construct ideas about "the real." Primary focus is on the Anglo-American tradition. Emphasizes skills of visual analysis. *Four credit hours.* **A** SALTZ

AR293j Asian Museum Workshop: Asian-American Art at Colby A hands-on, collaborative workshop in which students create a museum or virtual Web exhibition. In the first week, students learn about the topic through readings, lectures, presentations, and writing assignments. They then begin their collaboration, with the entire class making all decisions; students jointly produce a grant proposal, press release, object labels, catalogue, and educational component. The exhibition opens on the last day of Jan Plan with a student-led presentation for the public. The scale of the project and the student-driven process demand a greater commitment of time and energy than most Jan Plan courses, but the long hours yield a tangible product that remains on display for weeks, months, or years. *Three credit hours.* WEITZ

[AR311] Art of the Aegean and Greece Architecture, sculpture, and painting from the development of the Minoan civilization through the Hellenistic period. *Prerequisite:* Art 111. *Three or four credit hours.*

[AR313] Art of the Early Middle Ages Painting, sculpture, and architecture from A.D. 315 to 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.*

- [AR314] Art of the High Middle Ages** Romanesque and Gothic painting, sculpture, and architecture in Western Europe, from the re-emergence 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.*
- [AR331] Art of the Renaissance in Northern Europe** The art of France, Germany, and the Lowlands in the 15th and 16th centuries, with emphasis on the major painters from Van Eyck to Bruegel. *Prerequisite:* Art 111 or 112. *Three or four credit hours.*
- AR332s Art of the Renaissance in Italy** A study of the roots and development of specific artistic traditions in the Italian peninsula from the 13th century through the 16th century, with emphasis on the major architects, sculptors, and painters. Understanding the meanings and functions of works of art created during that period, their relationship with and dependence upon context: historical, theological, cultural, scientific, economic, social, and of course, artistic. *Prerequisite:* Art 111 or 112. *Three or four credit hours.* PLESCH
- AR333f Mannerism and Baroque Art in Southern Europe** Painting, sculpture, and architecture from the late works of Michelangelo in the 16th century through the early 18th century in Italy and Spain. *Prerequisite:* Art 112. *Three or four credit hours.* PLESCH
- [AR334] Film and Society: Films of the 1940s** Listed as American Studies 334. *Four credit hours.* U
- AR336s Women in Art** A seminar investigation of issues regarding women as subjects in, and as producers of, art in 19th- and 20th-century Europe and America. *Four credit hours.* MARLAIS
- AR341fs Painting III** Serves as a bridge course between the project-based format of Painting I and II and the independent structure of advanced painting. Students undertake invented abstraction, increased scale, the use of limited palettes, and an independent direction in their studio practice. Particular importance is placed on the ability to develop and maintain a work process with the goal of producing a related body of self-directed work. Students are required to express their intent visually in their work, orally in critiques, and in a written statement. Evaluation includes midterm and final portfolio reviews. *Prerequisite:* Art 242. *Four credit hours.* HART
- AR342fs Painting IV** Based on the discoveries made in Painting III, students continue to define and express their personal goals and begin their fully independent studio practice. Particular importance is placed on the ability to develop and maintain creative momentum with the goal of producing a cohesive body of self-directed work. Students are required to express their intent visually in their work, orally in critiques, and in a written statement. Evaluation includes midterm and final portfolio reviews. Fulfills the minimum requirement for the studio capstone Senior Exhibition. *Prerequisite:* Art 341. *Four credit hours.* HART
- [AR351] European Art, 1780-1880** The history of art from the French Revolution to Impressionism. The changes during this period in Europe were exceptional, as art moved from royal and government patronage to an essentially modern system of galleries and private, bourgeois collectors. Students will be evaluated on the basis of exams and written papers, and they are encouraged to take part in class discussions. *Prerequisite:* Art 112. *Three or four credit hours.*
- AR352f Modern Art, 1880-1914** History of avant-garde movements from post-impressionism through German expressionism. *Prerequisite:* Art 112. *Three or four credit hours.* MARLAIS
- [AR353] Contemporary Art, 1914 to the Present** The history of art from Dada to our own time, identifying the main currents of 20th-century art that are the foundations of the contemporary scene and discussing the most significant contemporary artists and trends. While the main focus is art in the United States, the course demonstrates that contemporary art is worldwide, no longer limited to any one provincial center. Makes use of the strong contemporary holdings of the Colby College Museum of Art. Aside from the assigned textbook, a variety of sources, including artists' statements, critical opinion, and theory, will be read. *Prerequisite:* Art 112. *Three or four credit hours.*
- AR361fs Sculpture V** Further exploration of sculptural techniques and concepts. Out-of-class work is essential. *Prerequisite:* Art 262. *Four credit hours.* BORTHWICK
- AR362s Sculpture VI** Further exploration of sculptural techniques and concepts. Out-of-class work is essential. *Prerequisite:* Art 361. *Four credit hours.* BORTHWICK
- AR375f Seminar: Representing Difference in American Visual Culture** Listed as American Studies 375. *Four credit hours.* U SALTZ
- AR376f Seminar: Chinese Painting** Held in conjunction with the exhibition *Spaces and Places: Chinese Art from the Lunder-Colville Collection and the Museum of Fine Arts*, on view in the Colby College Museum of Art. To the extent possible, class sessions will be held in the museum and include close viewing of the paintings. We will explore a variety of ways to

understand Chinese paintings, from the physical object, to the historical context, to the intellectual background of the work. After a general introduction to the history of Chinese painting and methodological approaches to its study, students will produce an original research paper on a selected painting. *Four credit hours.* **A WEITZ**

AR381fs Photography III: Color and Digital Photography Allows students to master the basics - creatively and technically - of digital photographic techniques and materials. The class will provide a primer for Adobe Photoshop, the appropriate hardware (scanners and printers), and digital cameras. Introduces and explores color photography, its history, methods, and materials and a survey of contemporary work in the medium. Although the curriculum introduces many aspects of digital craft, assignments and projects will include the use of traditional techniques as well. Critical to the course is the continued exploration of photography as a language of visual expression within the fine arts. Students will be using digital and traditional cameras. *Prerequisite:* Art 282. *Four credit hours.* **GREEN**

AR382fs Photography IV Provides further exploration of the materials, techniques, and ideas covered in Art 381. Students may choose to work using traditional darkroom techniques and/or digital media according to what is most appropriate for their work. The course also allows students to improve their skills using advanced methods, materials, and equipment including medium and large format cameras. Each student will take on a self-conceived and self-directed semester-long project and take part in regular critiques. They will be expected to express their intentions and results verbally and through a final written statement. *Prerequisite:* Art 381. *Four credit hours.* **GREEN**

[AR394] Seminar on Architecture A seminar investigation into a variety of topics that is designed to question the nature of architecture, the role of the architect, and the analysis of specific buildings. *Four credit hours.*

AR441fs Painting V Further extends students' ability to develop a mature direction in their work. Expands on the goals and expectations as expressed in Painting IV, including the ability to develop and maintain creative momentum with the goal of producing a cohesive body of self-directed work. Provides stronger preparation for the studio capstone Senior Exhibition and for application to graduate school. Students are required to express their intent visually in their work, orally in critiques, and in a written statement. Evaluation includes midterm and final portfolio reviews. *Prerequisite:* Art 342. *Four credit hours.* **HART**

AR442fs Painting VI Allows students the benefit of the full painting program. Students expand the depth and breadth of their independent process, whether working from still life, figure, landscape, or invented abstraction. Offers the strongest preparation for the studio capstone Senior Exhibition and for application to graduate school. Students are required to express their intent visually in their work, orally in critiques, and in a written statement. Evaluation includes midterm and final portfolio reviews. *Prerequisite:* Art 441. *Four credit hours.* **HART**

AR443fs Painting VII Further exploration of materials, techniques, and ideas developed in Painting VI. Out-of-class work is essential. *Prerequisite:* Art 442. *Four credit hours.* **HART**

AR444fs Painting VIII Further exploration of materials, techniques, and ideas developed in Painting VII. Out-of-class work is essential. *Prerequisite:* Art 443. *Four credit hours.* **HART**

AR458s American Art in a Global Context Examines what it means to study American art in a global context. Topics include the travel and education of artists abroad, the influence of national styles and subject matter on international art, and the global construction, circulation, and interpretation of images. Readings on painting, sculpture, photography, prints, and popular media from the 18th century to the present will take us across the Americas to Africa, Europe, the Middle East, and East Asia. Discussions will raise questions about local and global dynamics, migration and immigration, (post)colonialism, (trans)nationalism, and cultural appropriation. Students are expected to complete several writing assignments, make formal presentations in class, participate in a museum field trip, and develop an independent research project resulting in a substantial paper. *Four credit hours.* **U SHEEHAN**

AR461f Sculpture VII Further exploration of sculptural techniques and ideas. Out-of-class work is essential. *Prerequisite:* Art 362. *Four credit hours.* **BORTHWICK**

AR462s Sculpture VIII Further exploration of sculptural techniques and ideas. Out-of-class work is essential. *Prerequisite:* Art 461. *Four credit hours.* **BORTHWICK**

[AR472] Seminar: Food in Art, Food as Art Narrow as this topic may seem, it will allow us to learn about the history of food, look at art from prehistoric times to the present, and address a wide variety of issues. In addition to still-life painting, art featuring food includes depictions in which figures eat, prepare, and serve food. Examines the aesthetics of feasts and banquets, the architecture of eating spaces, the symbolic functions ascribed to food, and how food presentation follows the artistic styles of the period. *Prerequisite:* Art 111 or 112. *Four credit hours.*

[AR473] Visual Culture of Tattooing An exploration of the practice of tattooing across history along with a survey of scholarship on the subject and of pertinent theoretical models. This seminar will sharpen visual literacy and research skills and will develop the ability to analyze and critically assess visual and verbal materials. Weekly oral presentations in class, final research paper, and research diary. *Prerequisite:* Art 111 or 112. *Four credit hours.*

[AR474] Seminar: Graffiti, Past and Present An exploration of the practice of graffiti across history along with a survey of the scholarship on the subject and of pertinent theoretical models. Aimed at sharpening visual literacy and research skills and developing the ability to analyze and critically assess visual and verbal materials. Weekly oral presentations in class and final research paper. *Prerequisite:* Art 111 or 112. *Four credit hours.*

[AR476] Seminar: Museum Practice An introduction to all facets of art museum practice. Readings will focus on a variety of critical questions in contemporary museology. Students will be assigned tasks similar to those they would undertake working at a museum, and they will be asked to consider various philosophies of the nature of museums. Draws on the expertise of the staff of the Colby College Museum of Art with an emphasis on objects from the collection. *Prerequisite:* An upper-level art history course. *Four credit hours.*

AR481fs Photography V Provides further exploration of the materials, techniques, and ideas covered in Art 382. Students may choose to work using traditional darkroom techniques and/or digital media according to what is most appropriate for their work. The course also allows students to improve their skills using advanced methods, materials, and equipment including medium and large format cameras. Each student will take on a self-conceived and self-directed semester-long project and take part in regular critiques. They will be expected to express their intentions and results verbally and through a final written statement. *Prerequisite:* Art 382. *Four credit hours.* GREEN

AR482fs Photography VI Provides further exploration of the materials, techniques, and ideas covered in Art 481. Students may choose to work using traditional darkroom techniques and/or digital media according to what is most appropriate for their work. The course also allows students to improve their skills using advanced methods, materials, and equipment including medium and large format cameras. Each student will take on a self-conceived and self-directed semester-long project and take part in regular critiques. They will be expected to express their intentions and results verbally and through a final written statement. *Prerequisite:* Art 481. *Four credit hours.* GREEN

AR485fs Photography VII Provides further exploration of the materials, techniques, and ideas covered in Art 482. Students may choose to work using traditional darkroom techniques and/or digital media according to what is most appropriate for their work. The course also allows students to improve their skills using advanced methods, materials, and equipment including medium and large format cameras. Each student will take on a self-conceived and self-directed semester-long project and take part in regular critiques. They will be expected to express their intentions and results verbally and through a final written statement. *Prerequisite:* Art 482. *Four credit hours.* GREEN

AR491f, 492s Independent Study *Art History:* Individual study of special problems in the history or theory of the visual arts. *Studio:* Individual upper-level work in studio areas, intended to build upon course work or to explore new areas in studio. Not meant to take the place of existing courses. *Prerequisite:* *Art History:* Permission of the instructor. *Studio:* A year of studio course work and permission of the instructor. *One to four credit hours.* FACULTY

AR493Af Seminar: Contemporary Art A seminar-level examination of the worldwide contemporary art scene. Meant to prepare students to consider careers in contemporary art and for intelligent interaction with the contemporary art scene. Makes extensive use of the Colby College Museum of Art's contemporary collection as well as temporary exhibitions. Readings will vary depending on the themes and artists under consideration. Students will be expected to participate in class discussions and to prepare formal presentations on the work of artists they have researched. *Four credit hours.* MARLAIS

AR497f Seminar: Sex in Art A research seminar intended to investigate the different ways in which sexuality is represented throughout the history of art. *Prerequisite:* Art 111 or 112. *Four credit hours.* PLESCH

ASTRONOMY

In the Department of Physics and Astronomy.

Assistant Professor Elizabeth J. McGrath

Astronomy is one of the oldest sciences and deals primarily with developing an understanding of our origins on a cosmic scale. Students interested in graduate study in astronomy should complete the physics honors major, Astronomy 231, and one or more research projects in astronomy. The physics major is the most important part of graduate preparation for astronomy. Colby students with these credentials have always been admitted into graduate programs in astronomy or astrophysics.

Course Offerings

AS151f Stars, Stellar Systems, and Cosmology An introductory survey of modern astronomy, covering the solar system, stars and stellar evolution, galaxies, and cosmology, for students of both science and non-science backgrounds. The physical processes at work in the universe and the methods we use to learn about the universe will be emphasized. The use of

mathematics at the level of first-year algebra is required. Fulfills the non-lab science requirement. *Three credit hours.* **N** MCGRATH

AS231f Introduction to Astrophysics A general introduction based on topics needed for astrophysical research, accessible to all who are comfortable with calculus and computer analysis of data. Theoretical topics include celestial mechanics, continuous and line spectra, radiative transfer, star formation, nucleosynthesis, galaxy structure, and cosmology. Weekly labs alternate between afternoon and night. Students must be available Monday through Thursday evenings for five required observing labs held on clear nights to be selected by the instructor. Lecture and laboratory. *Prerequisite:* A working knowledge of introductory college-level physics and calculus, or concurrent enrollment in Physics 141. *Four credit hours.* **N,Lb** MCGRATH

AS491f, 492s Independent Study *One to four credit hours.* FACULTY

BIOCHEMISTRY

In the Departments of Biology and Chemistry.

Courses described in this section are cross-listed in "Biology" and "Chemistry." Each department offers a concentration in cell and molecular biology/biochemistry.

Course Offerings

[BC176] Exercise Physiology An introduction to the metabolic responses of the human body to exercise, including biochemical and physiological changes in the major support systems (such as cardiovascular, respiratory, and muscular systems) in cooperation with energy production. Other topics include nutrition and ergogenic aids. Students are expected to be active participants in lab, which will include measuring parameters involved in athletic performance. Students with prior credit for Biology 275, 362, or 367 may not receive credit for Biochemistry 176. *Prerequisite:* Biology 163 or Chemistry 112, 118, or 141. *Three credit hours.* **N,Lb**

[BC264] Pills, Potions, and Poisons Natural products have a long history of use as medicines and poisons. A survey of the use and abuse of some of these compounds with respect to their mode of action, including aspects of pharmacology and toxicology. Students will also be introduced to basic concepts of microbiology, immunology, anatomy, and biochemistry. Of particular interest to those interested in a career in medicine, both clinical and research. Previously offered as Biochemistry 297 (January 2012). *Prerequisite:* Biology 163 or Chemistry 141. *Three credit hours.* **N**

BC362f Medical Biochemistry Introduction to the fundamental principles of biochemistry. Course content and format are designed for students intending to proceed to health professional school. Lecture topics include amino acids and proteins; enzyme kinetics, mechanisms, and inhibition; lipid and carbohydrate structure and function; and the organization and functions of the major human metabolic pathways. Discussions include clinical case studies and other applications of biochemistry on human health. Students may not receive credit for both this course and Biochemistry 367, Biology 368, or Chemistry 368. Lecture only. *Prerequisite:* Biology 163 and Chemistry 242. *Four credit hours.* MILLARD

BC367f Biochemistry of the Cell I Introduction to biochemical processes. Topics include the structure and function of the major classes of biological molecules (proteins, carbohydrates, nucleic acids, and lipids). Lectures, homework, and discussion focus on content-related problem-solving, critical-thinking, and communication skills. The optional laboratory introduces the fundamental biochemical techniques such as protein purification, enzyme and protein assays, gel electrophoresis, and PCR. Students may not receive credit for both Biochemistry 362 and 367. *Prerequisite:* Junior or senior standing, Chemistry 242, and Biology 163. *Four or five credit hours.* RICE

BC368s Biochemistry of the Cell II Advanced study of biochemical processes. Topics include the generation and use of metabolic energy, the integrated control of cellular functions, mechanisms of transport, and cellular communication. Lectures, homework, and discussion focus on content-related problem-solving, critical-thinking, and communication skills. The optional laboratory expands student expertise in fundamental biochemical techniques such as protein purification, enzyme and protein assays, gel electrophoresis, and computer modeling. Students may not receive credit for both Biochemistry 362 and 368. *Prerequisite:* Biochemistry 367. Biochemistry 367 laboratory is prerequisite to Biochemistry 368 laboratory. *Four or five credit hours.* MILLARD

BC378s Molecular Biology An examination of how organisms maintain and express genetic information. Emphasis on well-characterized model systems in plants and animals. Topics include nuclear and organellar genomes, regulation of gene expression by developmental and environmental stimuli, and production of transgenic organisms. Lecture and laboratory. *Prerequisite:* Junior or senior standing, Biology 279, and Chemistry 141 and 142, or 145. *Four credit hours.* JOHNSON

BC491f, 492s Independent Study *One to four credit hours.* FACULTY

BIOLOGY

Chair, Associate Professor Catherine Bevier

Associate Chair, Associate Professor Andrea Tilden

Professors Frank Fekete, Paul Greenwood, Judy Stone, and W. Herbert Wilson Jr.; Associate Professors Catherine Bevier, Lynn Hannum, Russell Johnson, and Andrea Tilden; Assistant Professors Syed Tariq Ahmad, David Angelini, Cat Collins, Ronald Peck, and Raymond Phillips; Visiting Assistant Professor Geoffrey Mitchell; Senior Teaching Associates Tina Beachy, Scott Guay, and Lindsey Colby; Teaching Associate Sarah Staffiere; Teaching Assistant Anthony Dalisio; Research Scientists Paul Berkner, Bets Brown, Susan Childers, Russell Danner, William Feero, and Josh Kavalier; Research Associate Louis Bevier; Animal Care Technician Austin Segel

The Department of Biology provides its students with a background in, and an appreciation for, important aspects of classical and modern biology. To provide a broad and comprehensive investigation of the biological sciences, the departmental curriculum emphasizes the study of the biology of plants, animals, and microorganisms at the molecular, cellular, organismal, and population levels of organization. Special facilities include the Perkins Arboretum, the Colby-Marston Bog, a four capillary DNA sequencer, a microscopy suite, a flow cytometer, several laboratory microcomputer clusters, a well-equipped GIS laboratory, a radioisotope laboratory, a cell culture facility, two greenhouses, herbarium, numerous environmental chambers, and animal and aquarium rooms. Colby is a member of the Idea Network of Biomedical Research Excellence (INBRE), supported by the National Institutes of Health. Department graduates enroll in all fields of biology and in medical schools, dental schools, and veterinary colleges. Others are employed as research assistants, as teachers, and by private firms and government agencies.

To promote interdisciplinary education, the Biology Department maintains close ties (often including cross-listed courses) with other departments and programs including Chemistry, Computer Science, Environmental Studies, Geology, and Psychology.

Three optional concentrations and an interdisciplinary option are offered in addition to the basic major. The **concentration in ecology and evolution** is designed to provide students with a background to work in ecology, evolutionary biology, or related disciplines. Recent graduates in this area have enrolled in masters and doctoral programs in ecology, evolution, marine biology, and natural resource management. Others are employed by federal and state agencies, private and public organizations, and consulting firms.

The **concentration in cell and molecular biology/biochemistry** focuses biology majors on the interdisciplinary field that lies at the interface between biology and chemistry and also prepares students for graduate study or employment in the biomedical fields. Recent graduates have pursued interests in gene therapy, genetic counseling, and biomedical research, or they have attended medical school or graduate school in a variety of disciplines.

The **concentration in neuroscience** allows students to explore the interdisciplinary field at the interface between biology and psychology. This program prepares students for graduate study or employment in neuroscience or biomedical fields. Recent graduates have pursued research in neurodegenerative diseases, molecular neuroscience, and neuroimmunology.

The major in **biology-interdisciplinary computation** allows students to develop a coherent plan for the integration of computer science with biology, culminating in an integrative capstone experience. Students completing this major will be well prepared to pursue research in fields such as computational biology and bioinformatics.

Students interested in teaching are urged to read the "Education" section of the catalogue and to contact a member of the Education Program. Students majoring in biology and preparing for dental, medical, or veterinary schools must take a year of organic chemistry and a year of introductory college physics with laboratory in addition to the courses required for the major; students preparing for graduate study in the biological sciences also should elect these courses. Students are encouraged to take courses at summer laboratories and field stations. With prior approval, such courses may be credited toward the major requirement.

Colby is a member of a consortium sponsoring the Center for Sustainable Development Studies, through which qualified students are provided the opportunity for a semester of study in Costa Rica. Studies combine biology with social and political issues to address sustainable development problems. Colby also maintains affiliate status with the School for Field Studies and with the Semester in Environmental Science at the Marine Biological Laboratory, Woods Hole.

General Requirements for All Major Programs (Except Biology-Interdisciplinary Computation)

For all major programs offered by the department, the point scale for retention of the major applies to all courses required for the major and all elected biology courses. Courses required for the major may not be taken satisfactory/unsatisfactory. At least 32 credit hours must be taken for the major, including at least six courses with a laboratory component and at least two courses at the 300 level or above. A maximum of four credit hours of independent study and two credit hours of seminar may be counted toward the major. No more than eight credit hours in a semester or 12 credit hours in total from off-campus study programs can be counted toward the major requirements. The academic honor of "Distinction in the Major" will be awarded to students who have an average of at least 3.5 in the biology major.

Requirements for the Basic Major in Biology

Thirty-two hours of course work in biology (excluding Advanced Placement credit), including Biology 163, 164, one course with laboratory in field biology (Biology 211, 237, 257j, 259j, 263, 334, 354, Environmental Studies 271, 358j), and one course with laboratory in cellular biology (Biology 225, 227, 248, 274, 275, 279, 315, 367). Seniors must enroll in Biology 401 or 402. In addition, Chemistry 141, 142; Mathematics 121 or 161 or equivalent; and one of the following courses: Computer Science 151,

Mathematics 122, 162, 212, 253.

Requirements for the Concentration in Ecology and Evolution

Thirty-two hours of course work in biology (excluding Advanced Placement credit), including Biology 163, 164, 263 or Environmental Studies 271, 320 (with or without the lab), and 382; one research-based course (Biology 354, 373 with lab, 451, 452, 483/484*, or Environmental Studies 343), and one course with laboratory in cellular biology (Biology 225, 227, 248, 274, 275, 279, 315, 367). Seniors must enroll in Biology 401 or 402. In addition, Chemistry 141, 142; Mathematics 121 or 161 or equivalent, Mathematics 212; Geology 146 or 251 or 372; and one course with laboratory selected from the following: Biology 211, 237, 254, 257j, 259j, 276, 334; Environmental Studies 356, 358j, or 494.

*with an approved topic

Requirements for the Concentration in Cell and Molecular Biology/Biochemistry

Thirty-two hours of course work in biology (excluding Advanced Placement credit), including Biology 163, 164, 279, 367 (with laboratory), 368 (with laboratory), 378, and one course with laboratory in field biology (Biology 211, 237, 257j, 259j, 263, 334, 354, Environmental Studies 271, 358j). Seniors must enroll in Biology 401 or 402. In addition, Chemistry 141, 142, 241, 242; Mathematics 121 or 161 or equivalent; and one of the following courses: Computer Science 151, Mathematics 122, 162, 212, 253; and one course with laboratory chosen from Biology 225, 248, 274, 315, Chemistry 331, or Physics 145.

Requirements for the Major in Biology-Interdisciplinary Computation

Students will design an integrative course of study in collaboration with academic advisors from the Biology and Computer Science departments. Students without Advanced Placement credit in biology must complete Biology 163, 164, 279, one additional 200-level biology elective course, and Biology 320. Students with Advanced Placement credit in biology must complete Biology 279, two 200-level biology elective courses, and Biology 320. Typically, each major must complete Computer Science 151, 231, 251, 341, 441, and the capstone independent study 491 and 492.

Requirements for the Concentration in Neuroscience

Thirty-two hours of course work in biology (excluding Advanced Placement credit), including Biology 163, 164, 274, and one course with laboratory in field biology (Biology 211, 237, 257j, 259j, 263, 334, 354, Environmental Studies 271, 358j). Seniors must enroll in Biology 401 or 402. In addition, Chemistry 141, 142; Mathematics 121 or 161 or equivalent and one of the following courses: Computer Science 151, Mathematics 122, 162, 212, 253; Psychology 111; two courses from the following: Psychology 232, 233, 236, 275, 374, 375 (this list is frequently updated as new courses are introduced; please contact your advisor if you have questions about a specific course); one elective course in psychology (200-level or above) or physics (141 or above) or computer science (151 or above) or mathematics (in addition to the mathematics requirement).

Honors Program in Biology

Biology majors with a minimum cumulative grade point average of 3.5 at the end of the January term of the junior year or with permission of the department are eligible to apply for the Biology Honors Research Program during spring registration of the junior year. Honors research projects will earn a total of seven to nine credits and will be conducted during each semester of the senior year (and may include Jan Plan). Completion of the honors program will include a written thesis, an oral presentation at the Colby Undergraduate Research Symposium, and successful completion of an oral examination given by the student's honors committee. Successful completion of the honors program will result in the degree being awarded "With Honors in Biology."

Course Offerings

BI101f First-Year Seminar in Biology Students will meet with members of the faculty in the Department of Biology to discuss faculty research programs. Students will be expected to read papers from the primary literature to prepare for class. Introduces a wide range of sub-disciplines within biology along with the associated research methods. Open to first-year students who also enroll in a biology class during their first year. Nongraded. *One credit hour.* STONE

[BI115] Biology of Women An introduction to the biology of the female throughout her life span. Topics include reproductive anatomy, the menstrual cycle and related hormones, aspects of sexual function, contraception, pregnancy and infertility, childbirth, lactation, menopause, and other gynecological considerations. Myths surrounding women's biology will also be discussed. Satisfies the non-laboratory science distribution requirement. Cannot be counted toward the biology major. *Three credit hours.* N

BI118j Sustainable Agriculture and Food Systems Agriculture is a fundamental way in which humans interact with their environment and is at the nexus of ecological, social, and economic systems. An introduction to the ecological bases, practicalities, and philosophies of food and agricultural systems. Provides a foundation in such concepts as agroecology, sustainable soil management, pest and weed control, and organic farming. Also considers social, economic, and public-policy issues. Field trips to local farms and other agricultural institutions. Satisfies the non-laboratory science distribution requirement. Cannot be counted toward the biology major. Formerly offered as Biology 197A. *Three credit hours.* N MARSHALL

BI123f The Science of Baseball This writing-intensive course will explore principles of statistics, evolution, animal behavior, physiology, and physics viewed through the lens of baseball. Several expository and analytical papers will be required, allowing students to develop and improve their critical analysis and scientific thinking skills. *Four credit hours.* **N,W1** WILSON

BI131f Biodiversity Biodiversity examines the variety and variability of life on Earth, the causes of this variety, and the natural complex of relationships. Topics include habitat diversity, taxonomic diversity, evolution and speciation, interrelationships in ecosystems, and conservation biology. Also how humans influence and are influenced by biodiversity. Laboratory sessions focus on exploring biological diversity in different local ecosystems, using taxonomic keys, and applying the scientific method. Students with prior credit for Biology 164 may not receive credit for Biology 131. Lab section B is reserved for Integrated Studies 126, "The Green Cluster," and requires concurrent enrollment in English 126 and Environmental Studies 126. *Four credit hours.* **N,Lb** BEVIER

BI133s Microorganisms and Society An introduction to the importance of microorganisms to human health and the functioning of planet Earth. The diversity of the microbial world presented with relevant examples of how microorganisms affect our daily lives. Discussions and lectures based on the roles microorganisms and viruses play in disease, the food industry, ecological relationships, and biotechnology. Satisfies the laboratory science distribution requirement. Cannot be counted toward the biology major. Lecture and laboratory. *Four credit hours.* **N,Lb** F. FEKETE

BI152j Human-Microbe Connection Presents an overview of the diversity of microorganisms and the impacts they have on our daily lives and activities. The role of microbes in medicine and human health, the food industry, and sustaining our environment will be discussed. Students will gain a basic understanding of what microorganisms are, their activities, and how they function in medical, practical, and environmental applications. They will learn fundamental concepts related to medical, food, and environmental microbiology that will help them make reasoned decisions throughout their lives. Cannot be counted toward the biology major. Previously offered as Biology 197 (January 2013). *Prerequisite:* Students with prior credit for Biology 133 or 248 may not receive credit for Biology 152. *Three credit hours.* **N** CHILDERS

BI163f The Cellular Basis of Life An examination of cells as the fundamental unit of life. Aspects of evolutionary biology, cell biology, molecular biology, and genetics are discussed. A major objective is development of the intellectual tools to be able to ask and answer interesting biological questions. The objectives of the laboratory are to allow each student to design and conduct experiments, to analyze and present data, to write accurate scientific papers, and to critically evaluate the scientific literature. *Four credit hours.* **N,Lb** ANGELINI, HANNUM, PECK

BI164s Evolution and Diversity An introduction to the theory of evolution and to the diversity of organisms. Topics will include the theory of natural selection, transmission genetics, speciation, and the adaptive radiation of all domains and kingdoms of organisms. Lecture and laboratory. *Prerequisite:* Biology 163. *Four credit hours.* **N,Lb** WILSON

[BI176] Exercise Physiology Listed as Biochemistry 176. *Three credit hours.* **N,Lb**

[BI211] Taxonomy of Flowering Plants An overview of evolutionary relationships among flowering plants and their nearest living relatives, and the study of evolutionary processes leading to those relationships. Students will prepare a collection of plant specimens from the local flora, learn to recognize important plant families, use technical keys to identify plants, and become familiar with analytical methods for constructing and evaluating phylogenetic hypotheses. Lecture and laboratory. *Prerequisite:* Biology 164. *Four credit hours.*

[BI214] Plant Physiology The essential mechanisms of plant function. Students will learn about plant-water relations, mineral nutrition, photosynthesis, respiration, nitrogen fixation, and stress physiology through lectures and class discussion, addressing the importance of these physiological processes in the context of both agricultural and natural ecosystems. The laboratory portion focuses on developing skills in experimental design, good laboratory technique, and proper interpretation of data, and it entails presentation of the results of experiments in the form of a scientific paper and an oral presentation. *Prerequisite:* Biology 164. *Four credit hours.*

BI223f Science and Baseball Explores principles of statistics, probability, evolution, animal behavior, physiology, psychology, and physics using examples drawn from baseball. Statistics problem sets, discussions of assigned readings, and posting viewpoints on controversial topics on a class blog will allow students to improve their critical analysis and scientific thinking skills. Students will also be exposed to principles of evolution, animal behavior, physiology, and physics. Credit cannot be earned for both this course and Biology 123. *Prerequisite:* Sophomore or higher standing. *Four credit hours.* **N** WILSON

BI225s Immunology An introduction to the cellular and molecular components of immune recognition and effector responses against pathogens, with emphasis on the human immune system. Topics will include immune deficiency, allergy, and autoimmunity. Lecture and laboratory. *Prerequisite:* Biology 164. *Four credit hours.* HANNUM

BI227f Cell Biology All living organisms consist of at least one cell. A comprehensive overview of eukaryotic cell biology, covering topics such as metabolism, cellular structure, cell-to-cell communication, and gene regulation. Learning strategies will include lecture, discussion, and small group work. Laboratory exercises will be aimed at familiarizing students with techniques commonly encountered in cell biology research labs, including cell culture, microscopy, flow cytometry, and mathematical modeling. Lecture and laboratory. *Prerequisite:* Biology 164. *Four credit hours.* MITCHELL

BI237f Woody Plants Introduction to anatomy, physiology, reproduction, and ecology of woody plants. Field trips emphasize identification and ecology; laboratory sessions focus on structure and function; one laboratory includes a Saturday field trip.

Prerequisite: Biology 164. *Four credit hours.* STONE

BI246f Parasitology A study of parasitic organisms with a focus on eukaryotic parasites of animals. General principles including advantages and challenges of the parasitic life strategy will be introduced, then applied to parasites from a variety of phylogenetic backgrounds with a particular emphasis on medically relevant organisms. Current research in the field will be discussed, highlighting articles that address possible preventive and therapeutic approaches to parasites that cause human disease. *Prerequisite:* Biology 164. *Three credit hours.* PECK

BI248f Microbiology Provides an understanding of the nature and diversity of microorganisms and viruses and the roles they play in the biosphere. Emphasis will be on the microbe itself—its functional, ecological, and evolutionary relationships—as well as the activities it carries out that are of interest to humans. The approach will be fundamental, stressing principles, but with considerable emphasis on how these principles are applied to practical problems in medicine, industry, and the environment. Credit cannot be earned for both this course and Biology 238. *Prerequisite:* Biology 164 (prerequisite), Chemistry 141 or 145 (may be taken concurrently). *Four credit hours.* F. FEKETE

[BI254] Marine Invertebrate Zoology A survey of the major phyla of free-living marine invertebrates and the study of the evolutionary relationships of those groups. Students will learn to classify marine invertebrates and to understand their role in marine communities. They will work collaboratively to produce Wiki accounts on topics of current interest in marine invertebrates. Each student will give a talk on a topic of her/his choice based on a critical survey of the primary literature. A comprehensive lab practical will test the students' mastery of marine invertebrate morphology. *Prerequisite:* Biology 164. *Four credit hours.*

[BI257] Winter Ecology Study of the diverse adaptations plants and animals use to survive the stresses of the winter environment. Students will learn general principles of heat transfer, basic principles of weather, changes of state of water in the winter (snow, frost, rime, sleet), and identification of winter plants and animal signs. Teams will undertake extensive fieldwork to gather data to test explicit hypotheses, to analyze the data, and to present the results. Each student will give a talk to the class on the results of a journal article and prepare a critical analysis of an article on winter ecology. A comprehensive lab practical will test each student's mastery of winter plant and animal identification. *Prerequisite:* Biology 164 and permission of the instructor. *Three credit hours.*

[BI259] Plants of the Tropics An intensive three and one half week course that will focus on tropical plant biology in Costa Rica. Emphasis will be on the physiology and ecology of plants in both wild and agricultural settings. The importance of plants and agriculture for tropical Latin American cultures will also be addressed. We will visit two distinct environments in Costa Rica: a lowland tropical rain forest (La Selva Biological Reserve), and a tropical dry forest (Santa Rosa National Park). Students will complete a field research project during the final week. Cost: \$2,300. Limited scholarship funds may be available. *Prerequisite:* Biology 164 and permission of the instructor. *Three credit hours.*

BI263f Terrestrial Ecology An examination of ecological concepts applied to individuals, populations, and communities of plants and animals in terrestrial environments. Students will acquire a conceptual and theoretical understanding of population dynamics, species interactions, the structure and diversity of ecological communities, and biogeography. Students will explore primary literature in ecology, learn techniques for designing and conducting ecological studies in the field, and identify connections between ecology and other subdisciplines such as physiology, genetics, and evolution. Students will be expected to attend one weekend field trip. *Prerequisite:* Biology 164. *Four credit hours.* COLLINS

[BI264] Pills, Potions, and Poisons Listed as Biochemistry 264. *Three credit hours.* N

BI265j Introduction to Human Anatomy and Physiology Designed especially for students interested in health professions (e.g., physician, nurse, dentist, allied health), and for anyone who wishes to learn more about how the human body works. Students will understand how physiological functions are performed by specific anatomical structures, and that these functions follow physical and chemical principles. They will also learn anatomical terms used to describe body sections, regions, and relative positions, and about the organ systems in the human body and how these systems work together. Lecture and laboratory. Credit cannot be earned for both this course and Biology 275. *Prerequisite:* Biology 131 or 163 or equivalent. *Three credit hours.* N KLEPACH

BI271f Introduction to Ecology Listed as Environmental Studies 271. *Prerequisite:* Biology 131 or 164. *Four credit hours.* N,Lb COLE

BI274f Neurobiology Discussion of the molecular and cellular fundamentals of neurophysiology and neuroanatomy. Topics include structure and function of neurons, molecular basis of signaling and communication within and between neurons, sensory and motor systems, and mechanisms of learning and memory. The lab portion involves acquiring skills in electrophysiology (including electrode construction and testing on animal models), effects of modulators and anesthetics on electrophysiology of cardiac activity, and an independent research project. Lecture and laboratory. *Prerequisite:* Biology 164. *Four credit hours.* AHMAD

BI275s Human Physiology A study of human homeostasis and mechanisms of disease. Topics include endocrinology, autonomic nervous system, osmoregulation, cardiovascular system, respiratory system, renal physiology, and reproduction. Lecture and laboratory. Students cannot earn credit for both this course and Biology 265, nor can they earn credit for BI275 if they have previously taken Biochemistry 362. *Prerequisite:* Biology 164. *Four credit hours.* TILDEN

[BI276] Comparative Vertebrate Anatomy Comparative studies of basic vertebrate anatomical systems and their structural, functional, and evolutionary relationships among the major vertebrate groups. Laboratories emphasize comparisons of anatomical structure across different vertebrate species through dissection. Lecture and laboratory. *Prerequisite:* Biology 164. *Four credit hours.*

BI279s Genetics The mechanisms of inheritance, with emphasis on experimental findings. The physical and chemical bases for the behavior of genes, and applications of genetic principles to society. Lecture and laboratory. *Prerequisite:* Biology 164. *Four credit hours.* ANGELINI

BI287j Impact of Climate Change on Ocean Life Listed as Environmental Studies 287. *Three credit hours.* N EMERSON

BI297j Diversity and Function of Life in Marine Ecosystems The diversity and biological activities of oceanic life will be explored for a broad range of functional groups across contrasting marine ecosystems: open oceans, coastal oceans, polar seas, deep-sea hydrothermal vents, and coral reefs. Major course themes will include 1) the role of biodiversity in maintaining healthy marine ecosystems, 2) linkages between the microbial world and higher trophic levels, 3) management of living marine resources, and 4) development of 'blue' (ocean-based) biotechnology. Participants will gain a working knowledge of the major forms and functions of marine life, the biological processes they carry out, the ecosystem services they provide, and emerging opportunities in 'blue' biotechnology. *Prerequisite:* Biology 131 or 163. *Three credit hours.* N COUNTWAY

[BI306] Topics in Epidemiology Listed as Mathematics 306. *Four credit hours.*

[BI315] Animal Cells, Tissues, and Organs A study of how cells are organized into tissues and organs in animals. Class discussions focus on critically analyzing tissue disorders as a means of understanding normal tissue function. Class assignments focus on developing problem-solving skills and analyzing medical case studies. Laboratories investigate the microanatomy of mammalian tissues and the pathology of organ systems. Students learn to articulate the important aspects of tissue biology and pathology. *Prerequisite:* Biology 164 and Chemistry 142 and junior standing. *Four credit hours.*

[BI319] Conservation Biology Listed as Environmental Studies 319. *Four credit hours.*

BI320s Evolutionary Analysis An examination of the mechanisms of evolution at single and multiple loci, including natural selection, genetic drift, and inbreeding. Reconstruction of the evolutionary history of both organisms and genes. Applications to human health and conservation biology. *Prerequisite:* Biology 164 and junior or higher standing. *Three credit hours.* STONE

BI325f Advanced Immunology In-depth exploration of topics in immunology through reading and discussion of primary literature. Focuses on several main topics per semester, with an emphasis on the human immune system and human health. Students will learn to communicate their understanding of basic and clinical immunology research to others through class discussions and a formal presentation. The laboratory focuses on enhancing students' laboratory skills through a semester-long research project that will result in a scientific paper. Optional fourth credit for laboratory. *Prerequisite:* Biology 225. *Three credit hours.* HANNUM

[BI332] Developmental Biology The study of the formation and growth of individual organisms focusing on experimental evidence from many different species. An examination of developmental processes as they relate to morphology, physiology, biochemistry and cell processes, classical and molecular genetics, and evolution. Students will learn the history and methods of developmental biology; the molecular and cellular context of development; the descriptive embryology of various model organisms; and how to critically evaluate data, develop a hypothesis, and design experiments to address a novel question in development. Fourth credit hour for laboratory. *Prerequisite:* Biology 164 and junior or higher standing. *Three or four credit hours.*

BI334s Ornithology A broad survey of the biology of birds including their evolutionary history, morphology, physiology, flight adaptations, behavior, vocalizations, nesting, life history, conservation, and phylogeny. Students will prepare three critiques of the primary literature on particular controversial topics in ornithology. An independent research project (groups of one to four students) is required and will be presented in the form of a poster. A lab practical will test each student's knowledge of skeletal, feather, and internal anatomy. The final exam will be a test of visual and aural identification of all the species found during the field trips. *Prerequisite:* Biology 164, and junior standing. *Four credit hours.* WILSON

BI343f Environmental Change Listed as Environmental Studies 343. *Four credit hours.* MCCLENACHAN

BI348s Pathogenic Bacteriology Objectives are to provide an understanding of 1) the nature and diversity of pathogenic bacteria, 2) the roles they play as infectious agents of disease, and 3) the mechanisms of the mammalian defense against infectious disease. The approach will be fundamental, stressing principles, but with considerable emphasis on how these

principles are applied to practical problems in medicine and public health. Credit cannot be earned for both this course and Biology 238. *Prerequisite:* Biology 248, Chemistry 141 or 145, and Chemistry 142 (may be taken concurrently). *Three credit hours.* F. FEKETE

BI352s Advanced and Applied Ecology Listed as Environmental Studies 352. *Four credit hours.* COLE

[BI354] Marine Ecology A study of the interactions that determine the distribution and abundance of marine organisms. Emphasis will be on North Atlantic communities. One weekend field trip to the coast for all students. Fourth credit hour for laboratory. *Prerequisite:* Junior standing, Biology 164 and either Biology or Environmental Studies 271. *Three or four credit hours.*

BI356s Aquatic Ecology Listed as Environmental Studies 356. *Four credit hours.* BRUESEWITZ

BI358j Ecological Field Study in Belize Listed as Environmental Studies 358. *Three credit hours.* COLE, RUEGER

BI362f Medical Biochemistry Listed as Biochemistry 362. *Four credit hours.* MILLARD

BI366s The Environment and Human Health Listed as Environmental Studies 366. *Four credit hours.* N CARLSON

BI367f Biochemistry of the Cell I Listed as Biochemistry 367. *Four or five credit hours.* RICE

BI368s Biochemistry of the Cell II Listed as Biochemistry 368. *Prerequisite:* Biochemistry 367. Biochemistry 367 laboratory is prerequisite to Biology 368 laboratory. *Four or five credit hours.* MILLARD

BI373s Animal Behavior An examination of animal behavior from a biological perspective. Topics include the control, development, function, and evolution of behavior. Fourth credit hour for laboratory. *Prerequisite:* Biology 164 and junior standing. *Three or four credit hours.* BEVER

BI374s Advanced Neurobiology An in-depth discussion of the principles and current research in various fields of neurobiology at the molecular and cellular level through extensive review of primary literature. Topics include neurodevelopment (axon guidance), regeneration (stem cells), disorders (neurodegenerative and neuropsychiatric), and behavior. Students will discuss and present a topic of their choice and interest. The (optional) lab will involve experiments with fluorescence microscopy, neuronal morphology through GFP labeling, animal models of olfaction, paralysis, neurodegenerative diseases, and an independent research project. *Prerequisite:* Biology 274. *Three or four credit hours.* AHMAD

BI375f Comparative Animal Physiology The study of diversity of animal function. We will use physiological, cellular, and molecular approaches to explore structural and functional relationships of animals to their environments. Topics include respiration, water balance, endocrinology, metabolism, circulation, and thermoregulation. Through lecture and textbook material, quantitative modeling, and an exploration of primary literature, students will gain an understanding of animal adaptation to the environment. *Prerequisite:* Biology 164. *Three credit hours.* TILDEN

BI376s Development, Genes and Evolution Evolutionary developmental biology investigates the intersections of development, genetics, and evolution. We will present an overview of these subjects, followed by ideas and methodologies that emerge from their synthesis. Topics include plasticity, polyphenism, gene networks, constraint, parallel evolution, evolvability, among others. Students will (1) become familiar with the history and evidence of these concepts, (2) understand the arguments for and criticisms of their roles in evolution, (3) practice discussion, peer review, and presentation of these and related topics. *Prerequisite:* Biology 279. *Three credit hours.* ANGELINI

BI378s Molecular Biology Listed as Biochemistry 378. *Four credit hours.* JOHNSON

BI382s Ecological Modeling Examines the development and application of models that form the basis for theoretical ecology. Students will use model-building approaches to inform their understanding of fundamental ecological principles, exploring topics such as spatial and temporal dynamics of populations, competition and predation, and community composition and diversity. They will also learn statistical approaches for modeling data using large-scale, long-term datasets. Includes a lab in which students combine modeling with empirical approaches to generate and test predictions in population and community ecology. *Prerequisite:* Biology 263 or 271 or Environmental Studies 271, and Mathematics 212. *Four credit hours.* COLLINS

[BI392] The Cell Cycle and Cancer A detailed investigation of the cellular mechanisms that control the cell cycle and how defects in these systems lead to cancer. In addition, complexities of diagnosing, treating, and living with cancer are considered. A broad combination of detailed content provided by primary and secondary literature, student-led discussions, creative essays, and a detailed oral presentation. *Prerequisite:* Biology 164, Chemistry 142, and junior standing. *Three credit hours.*

BI398s The Biology of Cancer Cancer is the leading cause of death in Americans under the age of 85. Annually, the disease costs the United States more than \$200B. Students will examine the public health impacts of cancer, the biological basis of the disease, and current advances in diagnostics and therapeutics. Class sessions will include lecture, discussion, and presentation,

with focus on the analysis and critique of scientific research. During an optional discussion section (for a fourth credit), students will survey different types of science writing dealing with cancer, from popular press to specialized, professional literature.

Prerequisite: One 200-level biology lab course (BI225, 227, 274, 275, or 279). *Three or four credit hours.* MITCHELL

BI401f, 402s Biology Seminar Participation in selected department seminars during the fall or spring semester. Seminars will focus on student-led discussions of readings from the primary literature and will also include playing host to several outside speakers. Required of all senior biology majors. *Prerequisite:* Senior standing. *One credit hour.* FACULTY

BI451s Applied and Environmental Microbiology Students will develop and conduct an independent research project to explore microbes and how they affect, and are affected by, their environments. A particular focus will be learning about and employing modern biochemical and genetic techniques to analyze microbes in extreme environments. Students will analyze scientific literature, conduct experiments, and interpret data. Results and data analysis will be disseminated in the form of oral and written reports. *Prerequisite:* Biology 248 or 279. *Four credit hours.* PECK

[BI452] Behavioral and Physiological Ecology Advanced study of the behavior and physiology of animals in ecological and evolutionary contexts. Topics include how individuals adjust to environmental changes and how particular behavior patterns contribute to an animal's chances of survival and its reproductive success. Extensive review of primary literature. Lecture and laboratory. *Prerequisite:* Biology 263, 271, 275, 357, or 373, or Environmental Studies 271. *Four credit hours.*

BI474j Neuroscience Research A laboratory-intensive course designed to familiarize students with modern cellular and molecular approaches to neuroscience research. Two weeks spent at the Mount Desert Island Biological Laboratory, with the rest of the time spent on campus. *Prerequisite:* Biology 274 and permission of the instructor. *Three credit hours.* TILDEN

BI483f, 484s Honors Research in Biology Research conducted under the guidance of a faculty member and focused on an approved topic leading to the writing of an honors thesis and an oral presentation of the research results. *Prerequisite:* Senior standing as a biology major and permission of the department chair. *One to four credit hours.* FACULTY

BI491f, 492s Independent Study Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of a faculty sponsor. *One to four credit hours.* FACULTY

BI494f Problems in Environmental Science Listed as Environmental Studies 494. *Five credit hours.* BRUESEWITZ

CHEMISTRY

Chair, Professor Julie Millard

Associate Chair, Professor Whitney King

Professors Whitney King, Julie Millard, Thomas Shattuck, and Dasan Thamattoor; Associate Professors Rebecca Conry, Jeffrey Katz, and Kevin Rice; Assistant Professor Nicholas Boekelheide; Senior Teaching Associates Brenda Fekete and Lisa Miller; Teaching Assistant Edmund Klinkerch

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 analytical, environmental, inorganic, organic, physical chemistry, and biochemistry. 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 science, computer science, and molecular biology.

The department offers several programs: (1) the chemistry major, (2) the chemistry-biochemistry major, (3) the chemistry major with a concentration in cell and molecular biology/biochemistry, (4) the chemistry-environmental sciences concentration, and (5) the chemistry minor. Additionally, each type of chemistry major can earn accreditation by the American Chemical Society (ACS) with additional courses selected in consultation with the advisor and with approval of the chair. More information about ACS certification can be found on the Chemistry Department website. 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 (or Chemistry 145) in their first year.

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 Program.

Requirements for the Major in Chemistry

Chemistry 141 and 142 (or 145), 241, 242, 341, 342, 493, 494, and two courses, at least one with laboratory, from Chemistry 331, 362, 367, 411 (413 is the laboratory for 411); Mathematics 121 and 122, or 161 and 162; Physics 141 (or 143) and 145.

Requirements for the Major in Chemistry-Biochemistry

Chemistry 141 and 142 (or 145), 241, 242, 341, 367 (with laboratory), 368 (with laboratory), 493 and 494; Mathematics 121 and 122, or 161 and 162; Physics 141 (or 143) and 145; Biology 163; one course (with laboratory) from Biology 225, 248, 274, 279, 332; and one course from Chemistry 331, 342, 378, 411, 444. Biology courses above the 100 level and/or biochemistry courses used to fulfill a biology major cannot count toward the major in chemistry-biochemistry.

Requirements for the Major in Chemistry with a Concentration in Cell and Molecular Biology/Biochemistry

Chemistry 141 and 142 (or 145), 241, 242, 341, 367 (with laboratory), 368 (with laboratory), 378, 493, and 494; Biology 163 and 279 (with laboratory); Mathematics 121 and 122, or 161 and 162; Physics 141 (or 143) and 145. Biochemistry 367, 368, 378, and Biology 279 cannot be double-counted toward both a biology major and the major in chemistry with a concentration in cell and molecular biology/biochemistry.

Requirements for the Concentration in Chemistry-Environmental Science

Chemistry 141 and 142 (or 145), 241, 242, 331, 341, 342, 493, 494, Mathematics 121 and 122, or 161 and 162; Physics 141 (or 143) and 145; Chemistry 217, and 481 or 482; Economics 133, 231, Biology 163, or Geology 141 and 142.

Additional Requirements for All Majors in the Chemistry Department

Each major must complete a chemistry-related independent study project equivalent to two (or preferably three) credit hours. This requirement may be satisfied through independent study, internship, or summer research, and it forms the basis of the seminar presentations in Chemistry 493 and 494. An off-campus research experience must have prior approval of the chair of the Chemistry Department to satisfy this requirement.

The Seminar Program (Chemistry 493, 494) is an opportunity for students to interact with chemists from other schools. All senior chemistry majors are required to enroll in Chemistry 493 and 494. Junior chemistry majors are strongly encouraged to attend and may enroll in either Chemistry 493 or 494.

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 satisfactory/unsatisfactory.

Honors Project in Chemistry

Majors in chemistry are encouraged to elect an honors research project with approval of a faculty sponsor in the department. Honors research normally entails eight to 10 credits across the senior year. Successful completion of the work of the honors research project, and of the major, will enable the student to graduate "With Honors in Chemistry." Attention is also called to the Senior Scholars Program.

Requirements for the Minor in Chemistry

Chemistry 141 and 142 (or 145), 241, and at least 10 credit hours in three or more courses selected from the following: Chemistry 151, 217, 242, 255, 331, 332, 341, 342, 362, 367, 368, 378, 411, 413, 431, 432, 434, 444. Students who enroll in Chemistry 151 for fulfillment of the minor must take at least one course that is 300-level or above. Courses selected to fulfill the minor must include at least four courses in addition to courses taken to satisfy requirements for any major or other minor. Specifically, Chemistry/Biology 362, 367, 368, and 378 cannot be used to fulfill the requirements for both a major and the chemistry minor. Students are strongly advised to consult with a member of the chemistry faculty to select a logical grouping of courses for the minor.

Course Offerings

CH112f Chemistry for Citizens Basic chemical principles and their applications to topics of current concern to society. Topics include atomic theory, chemical bonding and reactions, properties of solutions, and the chemistry behind drugs, DNA technology, and many household products. Intended for non-science majors. Working knowledge of algebra required. Students with prior credit for Chemistry 118, 141, or 145 may not receive credit for Chemistry 112. Fulfills non-laboratory science requirement. *Three credit hours.* **N** MILLARD

[CH112J] Chemistry for Citizens Basic chemical principles and their applications to topics of current concern to society. Topics include atomic theory, chemical bonding and reactions, properties of solutions, and the chemistry behind drugs, DNA technology, and many household products. The laboratory introduces students to the scientific method and the use of both qualitative and quantitative data in decision making. Intended for non-science majors. Working knowledge of algebra required. Students with prior credit for Chemistry 118, 141, or 145 may not receive credit for Chemistry 112. **During Jan Plan Selection, choose the lab(s) only. The lecture will be added for you if you are confirmed in the course.** *Prerequisite:* Concurrent enrollment in Chemistry 112JL. *Three credit hours.* **N**

CH141f General Chemistry Fundamental principles of chemistry including atomic theory, stoichiometry, solution chemistry, gas laws, thermochemistry, chemical bonding, and intermolecular forces. Students will become proficient at using pre-calculus-level quantitative skills in a scientific context and to master the interface between narrative and mathematical problem solving. The laboratory will familiarize students with experimental techniques and the accumulation and analysis of

experimental data. Students with prior credit for Chemistry 145 may not receive credit for Chemistry 141. Lecture, discussion, and laboratory. *Four credit hours.* **N,Lb** KING, SHATTUCK

CH142s General Chemistry Explores the fundamental principles of chemistry including chemical equilibria, thermodynamics, kinetics, electrochemistry, and radioactivity. Students will become proficient at using pre-calculus-level quantitative skills in a scientific context and will master the interface between narrative and mathematical problem solving. The laboratory will familiarize students with experimental techniques and the accumulation and analysis of experimental data. Students with prior credit for Chemistry 145 may not receive credit for Chemistry 142. Lecture and laboratory. *Prerequisite:* Chemistry 141. *Four credit hours.* **N,Lb** BOEKELHEIDE, CONRY

CH143f Turbo Chemistry A recitation section designed to amplify the material covered in General Chemistry lecture with extra challenging homework, practice exams, and required group problem sets. *Prerequisite:* Permission of the instructor. *One credit hour.* KING

CH144s Turbo Chemistry A recitation section designed to amplify the material covered in General Chemistry lecture with extra challenging homework, practice exams, and required group problem sets. *Prerequisite:* Permission of the instructor. *One credit hour.* KING

CH145f Honors General Chemistry Introductory chemistry for students with strong pre-college chemistry preparation. An accelerated course covering similar topics as Chemistry 141 and 142 with an additional focus on modern bonding theory. Students will become proficient at using pre-calculus-level quantitative skills in a scientific context and mastering the interface between narrative and mathematical problem solving. The laboratory will familiarize students with experimental techniques and the accumulation and analysis of experimental data. Students with prior credit for Chemistry 141 or 142 may not receive credit for Chemistry 145. Lecture and laboratory. *Four credit hours.* **N,Lb** RICE

CH151j K-8 Chemistry Outreach Activities Development of hands-on activities to fulfill physical science goals required by the Maine Learning Results. Students create age-appropriate science experiments that illustrate the relevance of chemistry to society and implement these activities in area classrooms and on campus. Communication skills are enhanced through the development of teacher kits (written) and interaction with schoolchildren (oral). Lecture only. *Prerequisite:* Chemistry 112 with laboratory or 118 with laboratory or 141. *Three credit hours.* **N** MILLARD, MILLER

[CH217] Environmental Chemistry Application of chemical principles to the environment with an emphasis on the interaction among chemical, physical, geological, and biological processes. Current topics such as acid deposition, global warming, atmospheric ozone loss, and the fate and toxicity of heavy metals will be discussed in the context of natural environmental processes. *Prerequisite:* Chemistry 142 or 145. *Three credit hours.*

CH241f Organic Chemistry Exploration of the relationships among structure, reactivity, and synthesis of organic compounds. The lecture portion introduces atoms and molecules, orbitals and bonding, the chemistry of alkanes, alkenes, alkynes, and other functional groups, stereochemistry, ring systems, substitution and elimination reactions, and kinetics and equilibria. The laboratory involves the use of common techniques used by chemists, instrumentation, and molecular modeling. The goals are to help students think critically, solve problems, and write effectively. *Prerequisite:* Chemistry 142 or 145. *Four credit hours.* THAMATTOOR

CH242s Organic Chemistry Theories encountered in Chemistry 141, 142 are used as the basis for a detailed 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 241. *Four credit hours.* THAMATTOOR

CH255j Nuclear Magnetic Resonance The theory and practice of one- and two-dimensional NMR, infrared spectroscopy, and mass spectrometry. Examples include complex organic species and biological macromolecules, including proteins. Laboratory exercises include sample preparation and common two-dimensional NMR experiments, including polarization transfer (DEPT), chemical shift correlation (COSY, TOCSY, HMQC, HMBC, Adequate), and nuclear Overhauser effect (NOESY) spectroscopy. Skills developed include the ability to sift through incomplete and sometimes conflicting data to reach a logical conclusion based on available evidence. Offered in alternate January Programs. Lecture and laboratory. *Prerequisite:* Chemistry 241. *Three credit hours.* SHATTUCK

CH297j Green Chemistry Intended to provide students with an introduction to green chemistry, not a specific field of its own, but instead a broad philosophy urging for the reduction or elimination of the use or generation of hazardous substances in chemical design, manufacturing, and application. Students will examine the principles of green chemistry used on the research and industrial scales, after gaining a general background in toxicology, ecology, and the historical context that led to the search for safer chemicals and methods. *Prerequisite:* Chemistry 241. *Three credit hours.* HUDSON

CH331f Chemical Methods of Analysis A study of the fundamentals of analytical chemistry. Students learn how to use physical measurements to make quantitative chemical measurements reported with defined uncertainties. Concepts of chemical mass and charge balance are used to calculate chemical speciation in complex acid/base and redox systems. Lectures and homework focus on problem-solving skills that provide solutions to new problems based on fundamental chemical principles and

constants. The required laboratory introduces advanced volumetric, potentiometric, and spectroscopic techniques for quantitative chemical analysis. Written lab reports reinforce the technical writing style used in chemical communications. *Prerequisite:* Chemistry 142. *Four credit hours.* KING

CH332s Instrumental Methods of Analysis Instruction in instrumental methods, including modern electroanalytical methods, absorption spectroscopy, fluorescence, Raman spectroscopy, mass spectrometry, and chromatography. Lecture and laboratory. *Prerequisite:* Chemistry 331. Chemistry 342 is recommended. *Four credit hours.* FEKETE, KING

CH341f, 342s 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. Gaining facility with abstraction through building mathematical models, working through the implications of those models, and assessing the validity and inherent errors in the ability of the models to predict and explain physical phenomena is the primary goal. Lecture and laboratory. *Prerequisite:* Chemistry 142 or 145, Physics 142 or 145. Chemistry 342 may be taken before 341 with permission of the instructor. *Five credit hours.* BOEKELHEIDE

CH362f Medical Biochemistry Listed as Biochemistry 362. *Four credit hours.* MILLARD

CH367f Biochemistry of the Cell I Listed as Biochemistry 367. *Four or five credit hours.* RICE

CH368s Biochemistry of the Cell II Listed as Biochemistry 368. *Four or five credit hours.* MILLARD

CH378s Molecular Biology Listed as Biochemistry 378. *Four credit hours.* JOHNSON

CH411f Inorganic Chemistry Current models and concepts in inorganic chemistry are discussed, with an emphasis on general trends and periodic properties of the chemical elements and their compounds. Topics include bonding and structure, acid-base theories, redox properties, molecular symmetry, and coordination compounds. Students will expand their knowledge of fundamental chemical principles as well as their ability to critically think about, communicate, and apply this knowledge in problem solving. Lecture only. *Prerequisite:* Chemistry 142 (or 145) and junior or higher standing. Chemistry 342 is recommended. *Three credit hours.* CONRY

[CH413] Inorganic Laboratory Studies Synthesis and characterization of inorganic and organometallic compounds of both the representative and transition elements. Discussion and laboratory. Co-requisite: Chemistry 411. *Two credit hours.*

CH431s Mechanistic Organic Chemistry Based on original research articles and designed to teach students to think critically about published material. The readings cover topics such as chemical bonding, molecular orbital theory, and aromaticity, the use of isotopes in determining reaction mechanisms, reactions of atomic carbon, matrix isolation spectroscopy, laser flash photolysis, the influence of structure on reactivity, the role of thermodynamics and kinetics in reactions, linear free energy relationships, and unusual molecules. Students are instructed on computational modeling of chemical reactions, structures, and spectroscopic properties and are taught to retrieve information from the chemical literature. *Four credit hours.* THAMATTOOR

[CH432] 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. Lecture only. *Prerequisite:* Chemistry 242 or equivalent. *Four credit hours.*

CH434s Symmetry and Spectroscopy Use of principles of symmetry and group theory as an aid in understanding chemical bonding, interpreting molecular vibrational and electronic spectroscopy, and rationalizing symmetry control of reactions. Lecture only. *Prerequisite:* Chemistry 411. *Four credit hours.* CONRY

CH444s Advanced Topics in Biochemistry A detailed look at current trends in experimental research at the interface of chemistry and biology. Critical analyses of recent literature, identification of important problems in the field, and development of proposals to address these problems will be of primary focus. Problem-solving assessments will include both written and oral communication skills. Topics will include proteomics, chemical biology, and advanced enzymology. *Prerequisite:* Biochemistry 367 and 368 (the latter may be taken concurrently.) *Four credit hours.* RICE

CH481f, 482s 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.*

CH483f, 484s Honors in Research in Chemistry Laboratory and library work involving a senior and one or more chemistry faculty members on a clearly defined project that results in an honors thesis. *Prerequisite:* Permission of the department and recommendation of the faculty sponsor. *One to four credit hours.* FACULTY

CH491f, 492s Independent Study Laboratory work of a research nature may be arranged with the instructor. *One to four credit hours.* FACULTY

CH493f, 494s Senior Seminar Discussion of topics of current interest in all areas of chemistry. Presentations by invited speakers from other colleges, universities, and industry. Seniors give a presentation on their research each semester.

Prerequisite: Junior or senior standing as a chemistry major. *One credit hour.* CONRY

CHINESE

In the Department of East Asian Studies.

Chair, Associate Professor Hong Zhang

Professor Kimberly Besio; Associate Professor Hong Zhang; Teaching Assistant Hui-Ching Lu

A minor in Chinese is offered for students who have a substantial interest in Chinese language and culture.

Requirements for the Minor in Chinese

Five language courses of at least three credits each at the level of Chinese 126 or above, and one more course with a substantial literary/cultural component to be chosen from either a 400-level course in Chinese or a course on Chinese literature/culture in English (please see list under "East Asian Studies") at the 200 level or higher. Students who start taking Chinese from an upper level are expected to take at least four language courses probably including courses chosen from our 400-level language offerings and independent study 491 and 492.

Note: The minor in Chinese is intended for non-East Asian studies majors. East Asian studies majors must declare either a Chinese concentration or a Japanese concentration within the major.

Course Offerings

CN125f Elementary Chinese I An introduction to the essential building blocks of the Mandarin Chinese language. Students will learn the pinyin Romanization system, basic strokes and radicals of the writing system, as well as approximately 200 characters. Basic sentence structures will be introduced within the context of social situations encountered in daily student life. By the end of the course students will be able to employ all four language modalities (listening, speaking, reading, and writing) to exchange basic information about themselves and their studies. *Prerequisite:* Chinese 125 is prerequisite to 126. *Five credit hours.* BESIO

CN126s Elementary Chinese II A continuation of Chinese 125. Basic sentence structures of Mandarin Chinese will be introduced within the context of social situations encountered in daily student life. Students will be able to employ all four language modalities (listening, speaking, reading, and writing) to discuss past actions and future plans. They will begin to learn strategies for constructing complex sentences and coherent paragraphs and will learn an additional 150 Chinese characters. *Prerequisite:* Chinese 125. *Five credit hours.* BESIO

CN127f Intermediate Chinese I A continuation of Chinese 126. Students will continue to build up their vocabulary and learn new sentence patterns and grammar points through an integrated emphasis on the four skills of language learning: listening, speaking, reading, and writing. *Prerequisite:* Chinese 126; Chinese 127 is prerequisite to 128. *Four credit hours.* ZHANG

CN128s Intermediate Chinese II A continuation of Chinese 127, with greater emphasis on building language proficiency in real life situations and language competence in spoken and written Chinese. *Prerequisite:* Chinese 127. *Four credit hours.* ZHANG

CN135f Chinese Conversation I Practice using basic sentence patterns in conversational situations. Emphasis on oral/aural practice of patterns and phrases related to such daily situations as going to the post office, talking on the telephone, shopping, ordering in a restaurant, etc. Supplemental vocabulary/phrase lists are supplied. *Prerequisite:* Chinese 126. *One credit hour.* LU

CN235f Chinese Conversation II Intermediate level conversation class with a focus on building language fluency and vocabulary for daily life situations. Nongraded. *Prerequisite:* Chinese 127. *One credit hour.* LU

CN321f Third-Year Chinese Advanced Chinese language, concentrating on reading, writing, and speaking. *Prerequisite:* Chinese 128. *Four credit hours.* BESIO

[CN322] Third-Year Chinese II Advanced Chinese language, concentrating on reading, writing, and speaking. *Prerequisite:* Chinese 321. *Four credit hours.*

CN335s Chinese Conversation III Conversation class for advanced students on various contemporary social and cultural issues. *Prerequisite:* Chinese 321. *One credit hour.* LU

CN430f Contemporary Chinese Society Advanced Chinese language with a focus on current affairs and topical social issues in contemporary China. Students will be immersed in a Chinese-language environment and should be prepared to discuss issues in Chinese such as China's market reform, commercialization, changing family patterns, migrant labor, popular culture, tradition, and Confucian thought. *Prerequisite:* Chinese 321 or a 400-level Chinese course. *Four credit hours.* ZHANG

[CN431] Business Chinese Advanced Chinese language with a focus on vocabulary and sentence patterns that will facilitate research and discussion of, as well as participation in, China's vibrant business scene. Students will be immersed in a Chinese language environment and should be prepared to discuss issues related to business in China in Chinese. Formerly offered as Chinese 497. *Prerequisite:* Chinese 321 or a 400-level Chinese course. *Four credit hours.*

[CN433] Advanced Chinese Translation Enhances Chinese language skills through translation from Chinese to English and from English to Chinese, preparing students for the age of globalization. Introduces the translation practices of different text genres including government documents, news articles, business contracts, and research surveys and reports. *Prerequisite:* Chinese 321 or a 400-level Chinese course. *Four credit hours.*

[CN434] Docu-China: Advanced Readings in Chinese Uses documentaries to further consolidate and strengthen Chinese proficiency through interactive audiovisual means as well as via the traditional text-analysis and pattern-practice approach. By incorporation of online TV programs, news clips, and other learning tools, students not only enrich their learning experience but also learn to use the target language to understand and discuss concurrent social, cultural, political, and economic issues. *Prerequisite:* Chinese 321 or a 400-level course. *Four credit hours.*

CN491f, 492s 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

CN498s Classical Chinese An introduction to the basic sentence structures and major particles of classical Chinese with a focus on how knowledge of the language, literature, and culture of traditional China will enhance understanding of the modern written language, particularly that of newspapers and formal academic writing. Reading comprehension of both classical and modern Chinese will be improved as some of China's most beloved literary works will be paired with supplementary background readings in modern Chinese. Modern oral/aural and written skills will be honed as students discuss and write about these works and their historical and cultural background. *Prerequisite:* Chinese 321 or a 400-level course. *Four credit hours.* BESIO

CINEMA STUDIES

In the Department of American Studies.

Director, Associate Professor Steve Wurtzler

Advisory Committee and Faculty: *Professor Phyllis Mannocchi (English); Associate Professors Margaret McFadden (American Studies) and Laura Saltz (American Studies); Assistant Professors Elena Monastireva-Ansdell (Russian) and Sarah Keller (English)*

Program Affiliated Faculty: *Professor Arthur Greenspan (French); Associate Professor Arne Koch (German); Assistant Professors Dean Allbritton (Spanish), Audrey Brunetaux (French), Maple Razsa (Anthropology), and Cyrus Shahan (German)*

Few art forms have had a greater impact on modern culture than cinema. Over the course of cinema's relatively brief history, film criticism and theory have grappled with some of the issues most central to the humanities, including how to represent and transform the world and how technological changes have affected the production and consumption of images. As an academic discipline, cinema studies has addressed these and attendant issues through a range of strategies, directing attention both to the highest form of rarified art practice and to the most popular forms of entertainment and diversion.

The minor in cinema studies focuses on the history, theory, and culture of film and related media such as digital media and photography. It makes coherent both the historical and aesthetic dimensions of cinema, including the mutual influence of cinema with its cultural, technological, national, and transnational contexts. As a distinct field of study influenced by a range of disciplines—among them art history, English, and the sciences—the minor draws its strength from connections among departments at the same time that it provides a core of courses foundational to the discipline of cinema studies itself.

Requirements for the Minor in Cinema Studies

Six courses, including Cinema Studies 142, 251 or 252, 321, one non-U.S. cinema studies course, and two electives selected from the list of courses approved for the minor or approved by the director. No more than two courses can count toward both the cinema studies minor and another minor or major.

Courses Approved for the Minor in Cinema Studies

American Studies

- 215 The Image of Women and Men in American Film
- 334 Film and Society: Films of the 1940s
- 335 American Independents: Their Art and Production
- 378 American Dreams: The Documentary Film Perspective
- 493 Seminar: Spike Lee's United States of America

Art

- 285 History of Photography

Cinema Studies

- 280 Topics in Global Cinema

East Asian Studies

- 240 Japanese Animation

English

- 412 Global Shakespeares

French

- 398C World War II in Film and Fiction

German

- 234 German Culture Through Film

Global Studies

- 437 Media, Culture, and the Political Imagination

Italian

- 375 Comedy Italian Style: The Golden Age of Italian Film Comedy

Religious Studies

- 319 Bollywood and Beyond: South Asian Religions Through Film

Russian

- 242 Russian Cinema from Lenin to Putin

Spanish

- 266 Language of Spanish Cinema

Course Offerings

CI142fs Introduction to Cinema Studies An introduction to the discipline of cinema studies, its history, and dominant approaches. Functions as a gateway to the minor and serves as a prerequisite for the required film theory course. Previously offered as American Studies 198 and English 241. *Four credit hours.* **A** KELLER, WURTZLER

CI215j The Image of Women and Men in American Film How Hollywood films of a particular era reflected and helped determine the vast social and psychological changes that women, men, and the country were experiencing—or were denying experiencing—during tumultuous time periods of U.S. history. Focus in 2014: "The Sixties" (1958-1978). Topics include gender roles, genre, directorial style, historical background, the effects of camera placement, movement and lighting, and the function of narrative—how to "read" a film. A few additional required screenings will be scheduled and some class meetings may be extended for longer films or double features. Previously offered as American Studies 115 and 215. *Prerequisite:* First-year standing. *Three credit hours.* EISEN

CI251j History of International Cinema I The first of a two-semester survey of the history of global cinema, providing a broad overview of the development of cinema as an art form from the beginning of cinema (c. 1890) to 1945. Students will demonstrate an understanding of the historical, national, economic, aesthetic, and cultural contexts of films produced and received by international audiences in the first half of cinema history. They will also gain proficiency in written and oral communication and develop their skills in critical thinking. Offered as English 298 in spring 2011. *Three credit hours.* **A** KELLER

CI252s History of International Cinema II The second of a two-semester survey of the history of global cinema. Provides students with a broad overview of the development of cinema as an art form from the midpoint of cinema's history (1945) to the

present. Students will demonstrate an understanding of the historical, national, economic, aesthetic, and cultural contexts of films produced and received by international audiences in the second half of cinema history. They will also gain proficiency in written and oral communication and develop skills in critical thinking. *Four credit hours.* **A** WURTZLER

CI280s Topics in Global Cinema Explores the international history of experimental film from the European modernists of the 1920s to contemporary practices. We focus on cinema's relationship to the other arts (poetry, painting, photography, dance) and the aesthetic approaches of a variety of films that are more comfortable in an art gallery than in a multiplex. Students write several short papers and produce a hand-made, camera-less film. *Prerequisite:* Cinema Studies 142 or English 142. *Four credit hours.* WURTZLER

CI297j Short-Form Digital Storytelling Through hands-on learning and analysis, students will critique current popular short-form videos and create their own short-form digital stories. We will learn the basics of production (lighting, shot composition, and audio), storytelling (scriptwriting, storyboarding, timing, and pacing), and editing. Students will produce a 1-2 minute documentary portrait, 1-2 minute visual narrative, and 5-minute video in a style of their choosing. They will also be the "crew" and "editing assistants" for other student productions. In addition to essential reading, students will write entries on the course blog. *Three credit hours.* MURPHY

CI321f Topics in Film Theory Individual courses offered under the rubric of "Topics in Film Theory" will change in specific focus but keep consistent the rigorous engagement with a theoretical issue central to cinema studies. Students collaboratively engage with a set of questions regarding the nature of cinema and its relationships with power. Through both informal and formal analytical writing as well as class discussions and formal presentations, students not only develop a greater understanding of cinema but also enhance their written, critical, and verbal skills. *Prerequisite:* Cinema Studies 142 or equivalent. *Four credit hours.* WURTZLER

CI491f, 492s Independent Study Individual topics in areas where the student has demonstrated the interest and competence necessary for independent work. *One to four credit hours.* FACULTY

CLASSICS

Chair, Professor Hanna Roisman

Professors Hanna Roisman and Joseph Roisman; Associate Professor Kerill O'Neill; Visiting Assistant Professor James Barrett

The Classics Department offers courses listed in this catalogue under "Ancient History," "Classics," "Greek," and "Latin."

The Department of Classics encourages the study of the civilizations of Greece and Rome. The study of classics and classical civilization is an interdisciplinary endeavor based on courses in languages, literature, history, archaeology, philosophy, political science, religion, and art. Classics and classical civilization hold an important place at the heart of a liberal education by examining humanistic values of the ancient world and their impact on the premodern and modern ages. Students find the study of the classics beneficial in developing methodological and analytical thinking and most advantageous in pursuing careers in higher education, law, management, medicine, government, art, teaching, and other fields. We are committed to enhancing our students' abilities to speak persuasively, write convincingly, and think analytically.

The department offers majors and minors in classics and classical civilization, as well as majors in classics-English, classical civilization-English, and classical civilization-anthropology.

Students majoring in classics may concentrate in one of the following: Greek literature, Latin literature, a combination of both, or in classical civilization. There is also the opportunity to study in Greece or Italy in programs especially designed for American students, as well as occasion for experiencing field archaeology through arrangement with other institutions. Courses taken outside the department may count for the major only when preapproved by the department advisor.

Requirements for the Major in Classics

A student majoring in classics may concentrate in either Greek or Latin: it is recommended, however, that students planning to pursue the study of classics in graduate school study both Greek and Latin, electing a schedule of courses approved by the department.

The major consists of at least 10 courses, at least six courses in language including three courses numbered 200 or higher in Greek and/or Latin and four additional courses selected from at least two of the following categories:

- a. Additional courses in either language.
- b. Two courses in ancient history.
- c. Two courses elected from courses that require no knowledge of Greek or Latin offered by the Classics and other departments: Classics 133, 138, 145, 151, 171, 197, 231, 236, 240, 242, 244; Art 311; Philosophy 231; or equivalent courses selected in consultation with the major advisor.

Requirements for the Major in Classical Civilization

(No knowledge of Latin or Greek is required.)

The major in classical civilization consists of at least 10 courses as follows:

- a. Three courses selected from the following: Classics 133, 138, 171, 197, 231, 236, 240, 242, 244.
- b. Ancient History 154, 158.
- c. One course at the 300 level offered by the Classics Department.
- d. Four additional courses selected from the following: Classics 133, 138, 145, 151, 171, 197, 231, 234, 240, 242, 244; Ancient History 351, 356; Greek 111, 112, 131; Latin 111, 112, 131; Art 311; Philosophy 175, 231 381, 382, 383; or equivalent courses selected in consultation with the major advisor.

Requirements for the Major in Classics-English

In classics: six semester courses of Greek or Latin approved by the Classics Department advisor, three of which are numbered 200 or higher.

In English: 172, 271, two period or survey courses, and two electives.

Requirements for the Major in Classical Civilization-English

In classics: six semester courses approved by the Classics Department advisor.

In English: 172, 271, two period or survey courses, and two electives.

Requirements for the Major in Classical Civilization-Anthropology

In classics: either Ancient History 154 or 158; one course selected from Classics 133, 138, 236, or 244; a seminar at the 300 level offered by the Classics Department; and three elective courses selected in consultation with the Classics Department advisor.

In anthropology: Anthropology 112, 313, 333, and three elective seminars selected in consultation with the anthropology advisor, at least two of which should be at the 300 or 400 level.

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 a major may be taken satisfactory/unsatisfactory.

Requirements for the Minor in Classics

The minor consists of seven courses (with at least five in Greek, Latin, or a combination of both): Greek 111, 112, 131, or Latin 111, 112, 131; two courses in Greek or Latin numbered 200 or higher (in the case of a combination of both languages, courses in the other ancient language will be counted towards the requirement, but the minor must include at least one course numbered 200 or higher in either language); two courses selected from the following categories:

- a. Additional course numbered 200 or higher in either language.
- b. One course in ancient history.
- c. One course numbered 200 or higher in the other ancient language.
- d. One course selected from courses offered by the Classics Department using English translations of the ancient texts.

The courses are selected in consultation with the advisor.

Requirements for the Minor in Classical Civilization

The minor consists of seven courses: one course each from categories (a) - (d) and three courses from category (e).

No knowledge of Latin or Greek is required.

- a. One of the following: Classics 133, 171, 138, 236, 242, or 244.
- b. One 200-level course offered by the Classics Department using English translations of the ancient texts.
- c. Ancient History 154 or 158.
- d. One 300-level course offered by the Classics Department.
- e. Three additional courses selected from the following: Greek 111, 112, 131; Latin 111, 112, 131; Classics 133, 138, 145, 151, 171, 197, 231, 234, 236, 240, 242, 244; Ancient History 154, 158; Art 311; Government 271; Philosophy 231; or equivalent courses selected in consultation with the advisor of the minor.

The point scale for retention of each of the above minors applies to all courses that may be credited toward the minor. No requirement for a minor may be taken satisfactory/unsatisfactory.

Course Offerings

[CL133] Greek Myth and Literature A survey of the Greek myths, with emphasis on their content and significance in both ancient and modern society; the creation of myths; and the impact of myths on the evolution of our moral and political concepts.
Three or four credit hours. L, I

CL138s Heroes of the World The Greeks, the Romans, the Irish: peoples around the globe have produced their own unique heroes appropriate to the needs and desires of their particular cultures. Nevertheless, these heroes share a variety of traits and experiences. The similarities and differences of the heroes of Ireland, Greece, Rome, and other cultures; why we crave heroes and how that craving has shaped us all. *Three or four credit hours.* L, I O'NEILL

CL145j Between Revolution and Tradition: Julius Caesar and Augustus How Julius Caesar and Augustus both contributed to the crisis of the Roman republic and tried to resolve it. Topics include conflicts between republican traditions and a monarchical regime, Caesar's dictatorship, his image, the Ides of March, Augustus's attainment of sole power, his relationship with senators, commoners, and slaves, the Roman games, and society and literature in the Augustan age. *Two credit hours.* J. ROISMAN

[CL151] Anatomy of Bioscientific Terminology Teaches the Greek and Latin word elements that combine to form most of the specialized terms in biological sciences. The student who learns the meanings of these elements and the rules of word formation will usually recognize the basic meaning of any unfamiliar word in this field. Attention is also given to misformation, common errors, and words still in use that reflect scientific theories since rejected. *Two credit hours.*

[CL171] Liar, Liar! Homer's Odysseus Through tall tales and bold-faced lies, Odysseus reinvents himself to suit every audience and situation. His adaptability and elastic sense of the truth are the keys to his success and survival. How could a liar like Odysseus become one of the best-known and most admired heroes of the ancient world? Why did the *Odyssey* become an integral part of ancient literature education? Readings include translations of the *Odyssey*, the *Iliad*, and secondary literature on Homeric poetry. *Three credit hours.* L

CL197j Introduction to Greek and Roman Archaeology Classical archaeology focuses on the "old things"—the material remains—from ancient Greeks and Romans, two peoples whose cultures comprise an enormously influential chunk of human development. We study Greek and Roman archaeology because it provides a series of time-capsule views of peoples living in a deeply material world, within complicated, class-riven societies surprisingly similar to our own. We will address such large questions as: how did political life affect religious practices? how did the spread of literacy affect society? did ethnicity matter? who had status, and how was it communicated? *Three credit hours.* H CRAWFORD

[CL231] Hero's Rage in the Iliad A close reading of Homer's *Iliad* in English translation. Focuses on oral composition, the meaning of heroism, the role of the gods in the epic, and Homeric social and ethical values. Was war idealized by the ancients? What roles were open to women in the society portrayed? Special attention to the methodologies employed in classics for the examination of an ancient text and to oral and written structuring of an argument. Learning goals include refining and honing attention to detail, distinction between facts and views, enhancement of critical and analytical skills, improvement of oral presentation skills, and refinement of writing skills. Open to first-year students. *Three credit hours.* L, I

[CL234] In Search of a Strong Man: Greece in the Fourth Century The fourth century BCE was a transition period for the Greeks. They were forced to reassess basic values relevant to their political systems, their ways of life, and their relationship with non-Greeks. They re-examined the role of great individuals in a community that looked at such men with suspicion. The challenges faced by the city-state, the search for a powerful individual as a solution for social and political problems, the phenomenon of mercenaries, and the accomplishments of the kings of Macedonia, Philip II, and Alexander the Great. Open to first-year students. *Three credit hours.* H, I

[CL236] Roman Legends and Literature Through reading the works of selected Roman authors in translation, an examination of major concepts in mythology: cosmogony, the hero, the interplay of legend and history, etc. Open to first-year students. *Three or four credit hours.* L

CL240f The Tragic Hero: The Drama of Sophocles Aristotle considered Sophocles the most sublime of the great Greek tragedians. The Sophoclean heroes are self-destructive by nature, beset by doubts, constrained by fate, and hobbled by an ambiguous code of honor. Their motives reveal human fragility behind the heroic facade. Among other tragedies, readings include *Oedipus the King*, *Antigone*, *Ajax*, and *Electra*. Open to first-year students. *Three credit hours.* L, I H. ROISMAN

[CL242] Tragedies of Passion: Euripides Euripides's tragedies show the effects of passion and reason on human actions. His characters are not only ambiguous about their choices but often act contrary to their professed intentions. Reading from a selection of plays, such as *Medea*, *Hippolytus*, *Bacchae*, *Alcestis*, *Helen*, *Trojan Women*, *Hecuba*, and *Electra*, as well as secondary literature on Greek tragedy. Open to first-year students. *Three credit hours.* L, I

[CL244] Myth and Archaeology Is myth fiction or does it have some basis in fact? Since the 19th century, there have been numerous claims that archaeological evidence has been discovered to prove the veracity of myths from the Trojan War to episodes in the Bible. An exploration of the often explosive and controversial intersection between myth and archaeology. *Three or four credit hours.* L

CL356f Alexander the Great A seminar that aims to familiarize the student with major aspects of Alexander the Great's career and its impact on his contemporaries as well as future generations. Focus on the ancient sources' portrayal of Alexander; relations with his father, Philip II, and other members of the royal house; his dealing with Greek states; his military conquests; his interaction with the Persians, the Macedonian masses and elite; his divine aspirations, and other related topics. Students are expected to develop their analytical and interpretative skills through oral presentation and argumentation and by writing an

COMPUTER SCIENCE

Chair, Professor Dale Skrien

Professors Dale Skrien and Bruce Maxwell; Assistant Professor Stephanie Taylor; Visiting Assistant Professor Kyle Burke

Computer science studies the design of computational processes, computing systems, and virtual objects. Our goal is to provide students with a strong background in computer science, including the integration of knowledge from other disciplines. Our graduates will have the ability and experience to enable and to produce new and innovative discoveries.

Students with a variety of interests may want to explore computer science, as it affects and interacts with virtually every discipline. Many advances in the natural and social sciences, engineering, and the humanities would not have been possible without the exponential growth in computing power and the corresponding design of advanced algorithms by computer scientists. Students who become majors or minors, or take just a few courses, will extend their potential by knowing more about how to effectively use computers and computation.

Students in computer science courses learn primarily through programming projects that provide them with experience in design, the application of computational thinking, and problem solving. Computational thinking is the ability to deconstruct a problem or process and describe it at the level of computable operations. Computational thinking integrates abstraction, hierarchical design, information management, and an understanding of complexity. The projects students undertake increase in scope and complexity both within a single course and as they progress through the major.

The computer science major prepares students for graduate work in computer science and related areas or a wide variety of careers. The computer science minor provides students with the ability to effectively apply computational thinking to other disciplines. The interdisciplinary computation majors in biology, environmental studies, music, or theater and dance give students the opportunity to integrate computer science with a focus discipline. Students interested in any of these programs should enroll in Computer Science 151 in their first year.

Requirements for the Major in Computer Science

Computer Science 151, 231, 232, 251, 333, and 375 or 378; one elective numbered 200 or above; three electives numbered 300 or above, including at least one fall-spring sequence; and one of the following courses: Mathematics 212, 231, 253, or 274. Students may count only Computer Science 151, 231, and 251 towards both the computer science major and any other major.

Requirements for the Honors Program in Computer Science

An honors program is available for students who wish to pursue a topic more deeply. Students must have a grade point average of at least 3.25 in all computer science courses numbered 200 or higher and complete a year-long, preapproved honors project (Computer Science 483 and 484) culminating in both a written paper and a colloquium presentation. The fall semester project satisfies an elective in the major requirements. Students who successfully complete the requirements and receive the recommendation of the department will graduate "With Honors in Computer Science."

Requirements for the Minor in Computer Science

Computer Science 151, 231, 251, one course numbered 200 or above, one course numbered 300 or above, and a capstone experience. The capstone experience can be one of (a) the second semester of a two-semester elective sequence, (b) a project associated with a course in the student's major (Computer Science 481/482), or (c) a four- (or more) credit independent study with a significant computing component in the student's major department. Options (b) and (c) must be preapproved by a computer science advisor.

The point scale for retention of the major/minor applies to all courses in the major/minor. No requirement for the major/minor may be taken satisfactory/unsatisfactory.

Requirements for the Majors in Interdisciplinary Computation

Listed under "Biology," "Environmental Studies," "Music," and "Theater and Dance."

Computer Science 151, 231, 251, and two upper-level electives appropriate for the focus area. In addition, courses in the student's focus discipline from one of the approved tracks, listed below, and a capstone experience of at least four credits (491 or 492). Each student will have an advisor in computer science and an advisor in his or her focus department. The advisors will oversee the student's plan of study and capstone project.

Biology Track (without Advanced Placement Biology): Biology 163, 164, 279, 320, and one elective numbered 200 or above.

Biology Track (with Advanced Placement Biology): Biology 279, 320, and two electives numbered 200 or above.

Environmental Studies Track: Biology 131 or 164, Environmental Studies 118, 212 or 214, 233, 234, 271, 343, 352; one of 242, 276, 319, 336, 344, 346, 366; 401, 402.

Music Track: Music 111, 181, 282; one 200-level or higher music elective that has a computational or digital focus; two semesters of applied lessons (both of which must be taken on the same instrument and for credit).

Theater and Dance Track: Theater and Dance 113 or 114; 135; 171 or two of 115, 116, 117, 119; 281 or 285; 235 or 365.

Course Offerings

CS151fs Computational Thinking An introduction to computational thinking: how we can describe and solve problems using a computer. Using the Python language, students will learn how to write algorithms, manipulate information, and design programs to make computers useful tools. Through lectures, short homework assignments, and weekly programming projects, they will learn about abstraction, how to divide and organize a process into appropriate components, to describe processes in a computer language, and to analyze and understand the behavior of their programs. Students will communicate the results of their work through project reports. *Four credit hours.* Q SKRIEN, TAYLOR

CS231f Data Structures and Algorithms Focuses on the common structures used to store data and the standard algorithms for manipulating them. Standard data structures include lists, stacks, queues, trees, heaps, hash tables, and graphs. Standard algorithms include searching, sorting, and traversals. Along with implementation details, students will learn to analyze the time and space efficiency of algorithms and how to select appropriate data structures and algorithms for a specific application. In homework, labs, and programming projects, students will implement their own data structures and make use of existing libraries to solve a variety of computational problems. *Prerequisite:* A grade of C- or higher in Computer Science 151. *Four credit hours.* TAYLOR

CS232s Computer Organization Computer organization focuses on how computers work. Students learn the fundamental hardware components, including storage (RAM, hard disks), input/output mechanisms, and the central processing unit (CPU). They learn how computer components are designed and built on several levels, including the design of the electrical component, machine language, and assembly language. They also learn to program in assembly language for one or more simple computer processors. Students learn primarily through projects where they design digital circuits, design components of a CPU, or write programs in assembly language. *Prerequisite:* Computer Science 151. *Four credit hours.* BURKE

CS251s Data Analysis and Visualization Prepares students to apply computational data analysis and visualization approaches to real information from a variety of disciplines and applications. Data visualization is the interactive visual exploration of 2-D and 3-D graphic information using techniques that highlight patterns and relationships. Data analysis incorporates data management, data transformations, statistical analysis, data mining, and machine learning. Through programming projects, students will gain hands-on experience with the fundamentals of data analysis and visualization using data from active research projects at Colby and other institutions. *Prerequisite:* Computer Science 231. *Four credit hours.* TAYLOR

[CS269] Computer Game Design Students will learn how to design 2-D computer games using a commercial game engine. Topics include game design, artistic concepts, image manipulation, game scripting, and basic artificial intelligence concepts. Students will work in groups to design and develop a game to be distributed at the end of the term. Each group will make weekly presentations to the class, demonstrating their progress. *Prerequisite:* Computer Science 151. *Three credit hours.*

CS325s Web Programming The art and science of building dynamic (interactive) websites. Students will learn the fundamentals of the Internet and its HTTP/TCP/IP protocols, HTML and CSS, and how to use them to create well-designed Web pages that follow industry standards. They will learn to program in JavaScript to create client-side dynamic Web pages, in PHP or another language to create server-side dynamic Web pages, and in SQL to create, access, and modify a relational database. Finally, they will learn about XML, DOM, and AJAX, and how to use them to add Web 2.0 features to web pages. *Prerequisite:* Computer Science 231. *Four credit hours.* BURKE

CS333f Programming Languages A survey of programming languages and paradigms focusing on the design of programming languages and comparing and contrasting different language families, including imperative, object-oriented, functional, and logic paradigms. Topics include syntax, context-free grammars, parsing, semantics, abstract representations of programming processes and structures, memory management, and exceptions. Students will undertake small programming projects in various languages and more extensive projects in two languages of their choice, presenting the characteristics of their chosen languages to their peers at the end of the term. *Prerequisite:* Computer Science 231. *Four credit hours.* BURKE

CS336s Parallel and Distributed Processing An introduction to the principles and applications of parallel and distributed computing, with an emphasis on parallel computing. Within the context of (1) multi-threaded programming with POSIX threads and (2) MPI programming, we study dead-lock avoidance, load-balancing with appropriate data distribution schemes, basic parallel abstractions such as scan and reduce, parallel sorting algorithms, and performance analysis. Students will learn through a series of programming projects and problem sets. The final project is a significant report analyzing the performance of three sorting algorithms. *Prerequisite:* Computer Science 231 and 232. *Four credit hours.* TAYLOR

[CS341] Systems Biology I An introduction to the field of molecular systems biology, which aims to understand the mechanisms underlying complex biological processes. Key to this endeavor is the process of formulating and analyzing mathematical models. Students will learn how to develop, simulate, and analyze ordinary differential equation models of

biological systems as well as to read and understand relevant journal articles and perform in-depth analysis of model dynamics.

Prerequisite: Computer Science 231, and Mathematics 122 or equivalent, and one of the following: Biology 163 or 164; Mathematics 212, 253 or a 300-level course; or any 300-level computer science course. *Four credit hours.*

[CS351] Computer Graphics An introduction to computer graphics covering 2-D graphic primitives, clipping graphic objects to boundaries, linear transformations, creating and representing 3-D objects, converting 3-D models into 2-D images, and rendering complex 3-D scenes made of thousands of polygons. Students will build a comprehensive 3-D rendering engine in sequential weekly projects for which they generate images and develop portfolios of their own work. *Prerequisite:* Computer Science 251. *Four credit hours.*

[CS356] Introduction to Compiler Construction Introduction to the theory, basic techniques, and design of compilers and interpreters of general purpose programming languages; grammars, symbol tables, lexical analysis, semantic analysis, code generation, and optimization. Offered in alternate years. *Prerequisite:* Computer Science 333. *Four credit hours.*

CS361f Object-Oriented Design Object-oriented design focuses on the art and science of designing programs so that they are reusable, readable, maintainable, extensible, and robust. Students will learn object-oriented design techniques for producing such software, focusing on learning good programming style, object-oriented design principles, and design patterns. Students will also examine case studies of moderately large programs, will learn to use tools such as CRC cards and the UML, and will undertake significant programming projects. *Prerequisite:* Computer Science 231. *Four credit hours.* SKRIEN

[CS363] Robotics Addresses the problems of controlling and motivating mechanical devices to act intelligently in dynamic, unpredictable environments. Major topics will include sensing, navigation and control, mapping and localization, robot perception using vision and sonar, and robot kinematics. In addition to short homework assignments, more extensive projects will be undertaken by students using both existing software and implementing their own algorithms on medium-sized mobile robots capable of functioning in human spaces. Projects will focus on enabling the robots to execute tasks, explore, and interact with people and objects in their environment. *Prerequisite:* Computer Science 251. *Four credit hours.*

[CS365] Computer Vision Investigates designing computer programs that extract information from digital images. Major topics include image formation and acquisition, gray-scale and color image processing, image filters, feature detection, texture, object segmentation, classification, recognition, and motion estimation. Students are introduced to classic and contemporary vision techniques with examples for homework and programming assignments drawn from biological and medical imaging, robotics, augmented reality, and digital photography. They will develop a medium-scale vision system using data from active research projects at Colby. *Prerequisite:* Computer Science 251. *Four credit hours.*

[CS369] Computer Game Design Design of 2-D computer games using a commercial game engine, for computer science majors. Topics include game design, artistic concepts, image manipulation, game scripting, and basic artificial intelligence concepts. Students will work in groups to design and develop a game to be distributed at the end of the term. Each group will make weekly presentations to the class, demonstrating their progress. Can be repeated once for credit. *Prerequisite:* Computer Science 231. *Three credit hours.*

[CS375] Analysis of Algorithms Focuses on classical algorithms in computer science and the analysis of the space and time efficiency of such algorithms as those that sort arrays and lists and search various data structures, including lists, trees, graphs, and strings. All major categories of algorithms are discussed, including iteration, divide and conquer, brute force, exhaustive search, greedy, dynamic programming, and approximation. Unsolvable and intractable problems are also covered, as is the role of NP-completeness. If time permits, some parallel and distributed algorithms will be discussed. Students will learn through problem sets and short programming projects. *Prerequisite:* Computer Science 231. *Four credit hours.*

CS378f Introduction to the Theory of Computation Focuses on formal languages, automata, computability, complexity classes, and undecidability. Languages discussed include regular languages, context-free languages, and recursively enumerable languages. Both deterministic and non-deterministic forms of the corresponding machines (finite automata, push-down automata, and Turing machines) are also discussed. Unsolvable and intractable problems are addressed, as is the role of NP-completeness. Students will learn through problem sets and short programming projects. *Prerequisite:* Computer Science 231 and either Mathematics 274 or 275. *Four credit hours.* SKRIEN

[CS441] Systems Biology II The application of principles learned in Systems Biology I to a particular biological system. Students will work in interdisciplinary teams to complete a project focusing on one biological system and one or more mathematical models of this system. Involves reading journal articles, designing and running numerical experiments, analyzing results, and presenting challenges and results. Culminates in both a poster presentation and a comprehensive journal article-styled report and oral presentation. *Prerequisite:* Computer Science 341. *Four credit hours.* N

[CS451] Advanced Computer Graphics Advanced topics in computer graphics for computer science majors. Focuses on advanced algorithms for rendering both hyper-photorealistic and non-photorealistic images of objects and scenes. Topics will include ray tracing, radiosity and other global illumination methods, animation, motion capture and mapping, modeling unique materials, modeling painting and drawing techniques, and other topics selected by students. Each week students will prepare written summaries and critiques of technical papers in computer graphics. Programming projects will include OpenGL, a photorealistic project, a non-photorealistic project, and a final project of the student's choice. *Prerequisite:* Computer Science

351. *Four credit hours.*

CS461s Object-Oriented Software Systems Students will learn how to design and implement a significant software project that is robust, maintainable, extensible, and modular, building on their experience in Computer Science 361. The focus will vary from year to year. For example, students may gather specifications and then analyze, design, and implement a business application or dynamic website following standard software engineering practices. Students will learn through creating, implementing, and refining their own software designs in an iterative design process. *Prerequisite:* Computer Science 232 (may be taken concurrently) and 361. *Four credit hours.* SKRIEN

CS481f, 482s Minor Capstone Independent project and capstone experience for minors. Taken in tandem with a course in the student's major to develop a computing project in consultation with his or her computer science advisor that relates to or extends a topic from the related course. *Three or four credit hours.* FACULTY

CS483f, 484s Honors Research in Computer Science The independent study component of the honors program in computer science. *Prerequisite:* Permission of the instructor and admission to the honors program. *Three or four credit hours.* FACULTY

CS491f, 492s 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

CREATIVE WRITING

In the Department of English.

Director, *Professor Jennifer Finney Boylan*

Advisory committee: *Professors Jennifer Finney Boylan, Michael Burke, Peter Harris, and Debra Spark; Associate Professors Adrian Blevins and Natalie Harris*

Colby students may study the craft of imaginative writing in one of two ways—through a concentration within an English major or by electing a minor in creative writing if their major is a discipline other than English. English majors wishing to concentrate in creative writing should read the requirements for the concentration described separately in the "English" section of this catalogue.

The minor is designed to enhance existing major programs, to add structure and a sense of purpose to those students already committed to creative writing, and to encourage the consideration of serious graduate programs in writing.

Requirements for the Minor in Creative Writing

The minor consists of seven courses total: four writing workshops and three courses in literature.

The four writing workshops should include creative writing courses at the 200-level or above. These courses currently include English 278, 279, 280, 378, 379, 380, 382, 386, 478, and 480. Students may count Beginning Playwriting (Theater and Dance 141) as one of their creative writing courses.

In addition, the creative writing minor requires the student, in consultation with the minor advisor, to complete three courses in English and American literature at the 300 or 400 level. One of these courses must be in contemporary prose or poetry. For example, a fiction writer might take courses on the American short story, the modern American novel, 18th-century novels, Victorian or African-American literature, or contemporary fiction; a poetry writer might elect courses on Renaissance poetry, British Romantic poetry, 19th-century American poetry, Whitman and Dickinson, modern American poetry, or contemporary American poetry.

First priority for admission to English 278 and 279 is given to sophomores. Admission to advanced writing workshops is by manuscript submission only.

No requirement for the minor may be taken satisfactory/unsatisfactory.

A **creative writing concentration** within and in addition to the English major is offered as another option in development of skills in creative writing. The requirements for the concentration are specified in the "English" section of this catalogue.

EAST ASIAN STUDIES

Chair, *Associate Professor Hong Zhang*

Professors Kimberly Besio (Chinese), Tamae Prindle (Japanese), Nikky Singh (Religious Studies), and Ankeney (Art); Associate Professors Hideko Abe (Japanese), James Behuniak Jr. (Philosophy), Walter Hatch (Government), Steven Nuss (Music), and Hong Zhang (Chinese); Assistant Professors Elizabeth LaCouture (East Asian Studies and History) and Daniel LaFave (Economics); Visiting Faculty Fellow Yumiko Naito (Japanese); Teaching Assistants Risa Fujiwara (Japanese) and Hui-Ching Lu (Chinese)

Language courses offered by the department are listed separately under "Chinese" and "Japanese."

The East Asian Studies Department offers students a multidisciplinary approach to understanding Japan, China, and Korea. Our mission is to build language competency in Japanese or Chinese and provide in-depth exposure to traditional and contemporary East Asia through a wide variety of course offerings across the humanistic and social science disciplines.

A major in East Asian Studies will achieve an ability to communicate effectively in English and an East Asian language, to critically interpret texts and develop research skills using primary sources and data, and to acquire a comparative understanding of the region. Students achieve these goals through an immersion experience in East Asia as well as their course work at Colby.

Requirements for the Major in East Asian Studies

One introductory comparative course (East Asian Studies 150); a language concentration consisting of three language courses beyond the all-college requirement (normally Japanese 128, 321, and 322 or Chinese 128, 321, and one 400-level Chinese course); one capstone course, East Asian Studies 493, taken only in the fall semester of the senior year; and an additional six courses chosen from those approved for the East Asian studies major. These six courses must conform to the following distribution: one 200-level art, religion, philosophy, literature, or music course; one 200-level government, anthropology, economics, history, or sociology course; one 300-level or 400-level course; and three additional electives. Fourth-year language courses or three- or four-credit East Asian language courses outside the language concentration may constitute elective courses. Students who start taking Chinese or Japanese at the 300-level or above are expected to take at least four language courses, which may include three- or four-credit independent study Japanese 491, 492 or Chinese 491, 492. East Asian studies majors are required to spend at least one semester of study in the country of their language concentration. Under extraordinary circumstances students may petition to substitute an equivalent immersion experience in the country of the language concentration for a semester of study.

The point scale for retention of the major applies to all courses offered toward the major. No requirement for the major may be taken satisfactory/unsatisfactory. To achieve distinction in the East Asian studies major, the student will have to achieve a 3.5 grade point average in the courses listed for the major and will have to take two additional language courses beyond those required for the major. These courses may be a continuation of the language of concentration at the 400 level, or they may be introductory courses in a second Asian language.

Honors in East Asian Studies

An honors program is available for senior majors who have earned a 3.5 major average. Normally, application to the program must be submitted prior to the senior year. Some aspect of the culture of East Asia must be studied as the honors project in East Asian Studies 483 and 484.

Attention is called to the minor in Chinese and the minor in Japanese. Requirements for these minors are listed under "Chinese" and "Japanese."

Requirements for the Minor in East Asian Studies

The East Asian studies minor consists of eight courses: one introductory comparative course (East Asian Studies 150, 151, or 152, or Art 173 or 174); four language courses in either Chinese or Japanese; three non-language courses, one at the 200 level, one at or above the 200 level, and the third at the 300 level or above. Courses may be selected from offerings in art, government, history, literature, philosophy, and religious studies courses on East Asia. With the exception of one introductory comparative course, no content course at the 100 level will count toward the minor.

Courses Approved for the Major in East Asian Studies

Art

- 173 Survey of Asian Art to 1400
- 174 Survey of Asian Art, 1400 to the Present
- 276 Zen and the Arts in Asia
- 376 Seminar: The Chinese Painting

Chinese

- All courses offered

East Asian Studies

- All courses offered

Economics

- 279 The Economic Rise and Future of China

Government

- 256 Conflict in East Asia

- 355 Winners and Losers in Chinese Politics
- 356 Winners and Losers in Japanese Politics

History

- 250 History of Modern China
- 350 Women and Gender in East Asia

Japanese

- All courses offered

Music

- 254 Music of Meditation

Philosophy

- 265 Chinese Philosophy
- 266 Buddhist Philosophy

Religious Studies

- 212 Religions of China, Japan, and Tibet

Course Offerings

EA120f Made in China Listed as History 120. *Four credit hours.* **H,W1** LACOUTURE

EA150s Foundations in East Asian Studies An exploration of the foundations of East Asian civilization, with a focus on reading the classical texts of ancient China, Korea, and Japan. Provides an introduction to East Asian studies as an interdisciplinary field of study, as we explore interpretations of these foundational texts from a number of perspectives (philosophical, historical, artistic, political, etc.). Students will also work on improving writing and research skills. *Four credit hours.* **H, I** LACOUTURE

[EA152] Introduction to East Asia from the 18th Century to Modern Times A survey of East Asia from the 18th century to the present in its global, regional, and local contexts, beginning with the empires of Qing China, Tokugawa Japan, and Choson Korea, examining the transformations that led to the rise of the modern nation-states of East Asia. Topics include cross-cultural encounters, the rise of imperialism and colonialism, the transformation of empires into nation-states, and the evolution of gender, ethnic, and status identities. *Four credit hours.* **H, I**

EA173f Survey of Asian Art to 1400 Listed as Art 173. *Four credit hours.* **A** WEITZ

EA174s Survey of Asian Art, 1400-Present Listed as Art 174. *Four credit hours.* **A** WEITZ

EA231f The Chinese Novel: Vignettes of Life in Imperial China A critical examination of the development of classical Chinese literature of various genres such as poetry, popular songs, philosophical discourse, historical narrative, prose, fiction, tales of the supernatural and the fantastic, romance, and drama. All readings are in English translation. *Four credit hours.* **L** BESIO

[EA240] Japanese Animation: Sensitivity to Differences Japanese animations (animé) are artistic and dramatic expressions of realistic situations, happenings, and apprehensions. This course studies twelve animé as artistic expressions as well as socio-cultural and moral messages. The period covered spans from the 15th century to the post-human cyber-culture era, drawing a socio-cultural contour of Japanese history. As it discusses the values and relationships among regional tribes, social classes, genders, and human versus post-human beings, it cultivates sensitivity towards Japanese culture at multiple levels. It also hones skills in writing and public speaking. Formerly offered as East Asian Studies 297A. *Three credit hours.* **A**

EA250s History of Modern China Listed as History 250. *Four credit hours.* **H, I** LACOUTURE

[EA251] Gender Politics in Chinese Drama and Film A historical survey of Chinese drama and film from the 13th century to the present with a focus on representations of gender and sexuality. Paired readings of major works from various genres that make up the Chinese dramatic tradition with viewing of modern and contemporary films are informed by reading secondary scholarship in order to place these works and their portrayals of gender and sexuality in their historical and cultural contexts. Students will hone analytical skills and improve their ability to communicate insights both orally and in writing. *Four credit hours.* **L, I**

[EA252] Hell on Earth? Chinese Writers on Modern Chinese Society An examination of how Chinese writers used literature and film to address the political and social crises their country faced during the 20th century. Through close readings of literary and cinematic works, students will reflect critically on the experiences of the Chinese people as they struggled to modernize and

reform society. Students will reflect on what these experiences might teach us about our own society as well as contemporary China, and they will develop their ability to express insights both orally and in writing. *Three credit hours.* L, I

[EA254] China in Transition: An Anthropological Account Listed as Anthropology 264. *Four credit hours.* S, I

[EA257] From Communism to Consumerism An exploration of the fast-changing cultural scene in reform-era China. A wide range of popular cultural forms and newly-emerging consumption patterns (including films, popular music, avant-garde art, lifestyle magazines, hip-hop, and theme parks) are analyzed and discussed in the context of China's transition from a centrally controlled socialist state to a capitalist market economy and consumer-oriented society. Issues include the relationship between the masses and the state in cultural production and circulation; the political implications of late-socialist/postmodern forms of mass culture, and the social and historical contexts for the shaping of cultural sensibilities and commodities in urban "global" communities. *Four credit hours.* S

EA261f Japanese Language and Culture (in English) An introductory course on Japan in which we explore a global perspective of how Japanese people interact and see the world through knowledge of their own culture and language. Examines cultural patterns of Japanese society by looking at various political, social, economic, and gender relations among people in current times. Analyzes the variety of ways in which culture is consumed, reconstructed, reproduced, and manipulated in various local contexts. All readings are in English, but students are expected to memorize Japanese terms that signify Japanese culture and language. *Four credit hours.* S, I ABE

EA265s Chinese Philosophy Listed as Philosophy 265. *Four credit hours.* L BEHUNIAK

[EA266] Buddhist Philosophy Listed as Philosophy 266. *Four credit hours.* L

EA268s Politics of Satire and Humor in Modern China Explores the evolving role of satire, jokes, and comics in modern China from the Republican Period (1912-48) to Maoist China (1949-78) and reform-era China (1978-present). Particular attention to new and historical forms and targets of Chinese political humor as a way to understand changing state-society relations. Should the proliferation of political humor on the Internet be seen as a sign of new political openness or a part of everyday forms of resistance under authoritarian rule in contemporary China? *Four credit hours.* S, I ZHANG

EA275Jj Cultured Tough Guys: Samurai Devotion, Music, Poetry, and Art Listed as Music 275. *Three credit hours.* A NUSS

EA276s Zen and the Arts in Asia Listed as Art 276. *Four credit hours.* A, I WEITZ

EA279f The Economic Rise and Future of China Listed as Economics 279. *Four credit hours.* I LAFAVE

[EA332] Masterpieces: Modern Japanese Novels An appreciation and examination of masterpiece novels and short stories written by 10 illustrious Japanese writers, including two Nobel Prize laureates. Cultivation of the students' sensitivities to the feelings and values questioned by Japanese novelists. Examination of the novels as works of literature, aided by published scholarship in the fields of literary philosophical, psychoanalytic, historical, and socio-anthropological studies in Japan and the West. Each student will pry out covert meanings, verbally express those findings to an audience, and write a high-quality research paper. *Three or four credit hours.* L, I

EA350s Women and Gender in East Asia Listed as History 350. *Four credit hours.* H, I LACOUTURE

[EA353] Globalization and Human Rights in China Globalization refers to a variety of political, economic, cultural, and social changes that are transforming our world. Countries are increasingly interconnected by flows of information and technology, capital and labor, ideas and culture. We will use China as a case study to address some major issues concerning globalization: its problems and prospects; terms of trade between and among nations; sweatshop labor; the role of states, markets, and global institutions; human rights and cultural preservation. *Prerequisite:* East Asian Studies 152 or Anthropology 112 or Government 131. *Four credit hours.* S

[EA356] Winners and Losers in Japanese Politics Listed as Government 356. *Four credit hours.* I

[EA371] Japanese Language, Gender, and Sexuality An examination of the many aspects related to Japanese language and culture. The goals are to learn how cultural ideologies affect how we speak our language, how language plays a role in constructing our experience and understanding gender, and how gender and sexuality are negotiated through language. *Four credit hours.* I

EA376f Seminar: Chinese Painting Listed as Art 376. *Four credit hours.* A WEITZ

EA483f, 484s Honors Project An interdisciplinary analysis of an aspect of East Asian culture employing diverse sources and methods. Independent study, extensive readings, consultations, and a thesis. Successful completion of the honors project and of the major will result in the degree being awarded "With Honors in East Asian Studies." *Prerequisite:* Senior standing, a 3.5 major

average, and permission of a faculty mentor. *Three or four credit hours.* FACULTY

EA491f, 492s 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. *One to four credit hours.* FACULTY

EA493f Seminar: Advanced Research in East Asia An examination of methods for researching East Asia. Introduces students to the major debates that have come to define the field of East Asian studies, from John Fairbank's "response to the West" to Edward Said's "orientalism," and prepares them with the skills necessary to engage Asian sources for independent research. Students will develop an independent research project on East Asia in any area of the humanities or social sciences, which, with approval from the student's major department, may be developed into a senior honors thesis. *Prerequisite:* East Asian Studies 150 or relevant course work in East Asia, and permission of the instructor. *Four credit hours.* LACOUTURE

ECONOMICS

Chair, Professor Michael Donihue

Associate Chair, Professor Debra Barbezat

Professors Debra Barbezat, Michael Donihue, David Findlay, Patrice Franko, Lori Kletzer, and Randy Nelson; Associate Professor Andreas Waldkirch; Assistant Professors Sahan Dissanayake, Samara Gunter, Timothy Hubbard, Daniel LaFave, and James Siodla; Visiting Assistant Professor Finley Edwards

The Economics Department provides a wide selection of courses analyzing market behavior and the interactions among consumers, firms, and governments. Economic tools, which are applicable to a broad range of topics, are used to investigate how individuals and firms make decisions in private and public spheres and the consequences of resulting resource allocations. As the following courses illustrate, economics is central to the study of poverty, discrimination, growth, unemployment, the environment, international trade, and development, encompassing everything from fertility rates and crime to the cyclical nature of a country's aggregate production.

Economics classes emphasize theoretical modeling, empirical analysis, and critical thinking. After completing core courses in microeconomic and macroeconomic theory, students choose from a wide variety of electives. Both economics and economics-mathematics majors may elect a concentration in financial markets. The economics majors provide undergraduate students with an excellent background for employment and graduate work in numerous fields, including economics, business, law, government, health care, and education.

Requirements for the Major in Economics

Economics 133, 134, 223*, 224*, and 393**; one economics senior seminar; four additional elective courses in economics at the 200 or 300 level; at least two of the elective courses must be at the 300 level and at least one must be completed at Colby; Mathematics 121 or 161, or equivalent; either Mathematics 231 or the two-course sequence Mathematics 381, 382. Although potential majors are strongly encouraged to take Economics 133 and 134 in their first year, completion of the major is possible if begun during the second year.

Requirements for the Major in Economics with a Concentration in Financial Markets

Economics 133, 134, 223*, 224*, and 393**; one economics senior seminar; four additional elective courses in economics at the 200 or 300 level; at least two of the elective courses must be at the 300 level and at least one must be completed at Colby; Administrative Science 221, 311, and 322; Mathematics 121 or 161, or equivalent; either Mathematics 231 or the two-course sequence Mathematics 381, 382.

Requirements for the Major in Economics-Mathematics

Economics 133, 134, 223*, 224*, 336, and 393; one economics senior seminar; two additional elective courses in economics, one of which must be at the 300 level; Mathematics 122 or 162; Mathematics 231, 253, 311, and one additional 300-level mathematics course. The Mathematics 381, 382 sequence may be substituted for Mathematics 231 and the additional 300-level mathematics course. Students majoring in economics-mathematics may select a concentration in financial markets by fulfilling the requirements for the concentration in addition to the requirements for the major in economics-mathematics.

*Note: To continue in the major, students must receive a grade of C- or better in Economics 223 and 224. Both economic theory courses (223, 224) must be taken at Colby. Any student who has tried and failed to satisfy an intermediate theory requirement at Colby (i.e., received a grade of D+ or below for the major or F for the minor) may elect to take the same course elsewhere by securing the approval of the department chair on the standard credit transfer approval form. For other students seeking to fulfill the intermediate theory requirement with a course taken elsewhere, approval for the standard credit transfer form can be secured only by petitioning the Economics Department and having the petition approved by majority vote of the Economics Department faculty. At least one 300-level course must be taken at Colby regardless of the number and level of credits transferred from your study abroad.

**Note: The Economics 393 requirement is as of the Class of 2014.

Students who wish to do graduate work in economics are encouraged to consider the economics-mathematics major or enroll in Economics 336 and additional courses in mathematics, especially Mathematics 253, 311, 338, 381, and 382.

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

Senior Thesis and Honors in Economics and Economics-Mathematics

Students wishing to further their research in economics may register for Economics 345 during the fall of their senior year. At the end of the semester, students who are interested in pursuing honors research and who have the Economics Department's approval then complete a second semester of research, enrolling in Economics 484. Those completing Economics 484 with at least an A-, and who have maintained a major average of at least 3.50, are entitled to graduate with honors in the major. Another option, the Senior Thesis, is available to students who want to do a year-long research project, but do not meet the GPA requirement for honors. These students should enroll in Economics 345 followed by Economics 482. Further details can be obtained from the department.

Requirements for the Minor in Economics

Economics 133, 134, 223, 224, and two elective courses in economics at the 200 or 300 level. At least one of the elective courses must be a 300 level course taken at Colby. Independent studies and Economics 345 cannot be used to fulfill the 300-level course requirement. No requirement for the minor may be taken satisfactory/unsatisfactory.

Course Offerings

EC133fs Principles of Microeconomics Introduces the fundamental problem in economics: limited resources to satisfy unlimited needs and wants. Concentration on how markets allocate these scarce resources and when they fail to operate efficiently. After analyzing costs, students look at how firms in market structures ranging from perfectly competitive to monopolistic make decisions. Key principles are illustrated by applying them to current economic issues. Students will use standard economic models to describe market structures and the effects of policy interventions, solve problems using graphical or algebraic models of these markets, and choose an appropriate model to analyze economic events described in news articles.

Four credit hours. S BARBEZAT, DISSANAYAKE, EDWARDS, FRANKO

EC134fs Principles of Macroeconomics Introduces the measurement of macroeconomic variables and basic theoretical models of aggregate economic behavior. Focuses on the study of fluctuations in economic activity, long-run economic growth, and the role of monetary and fiscal policy in achieving macroeconomic goals. Students will develop their analytical problem-solving skills, hone their ability to think critically, gain experience in building and understanding theoretical models, and sharpen their capacity to understand and critique macroeconomic policy. *Prerequisite:* Economics 133. *Four credit hours.* S CHAUDHURI, EDWARDS, FINDLAY, SIODLA

EC197j Global Financial Markets An investigation of global financial markets and their effect on the world's domestic economies. We will define and explore the primary components of global financial markets, analyze the roles of the public and private sectors in the markets, and develop recognition of the linkages between financial market events in disparate markets to underlying non-financial economies. We will also provide an introduction to esoteric financial instruments and techniques such as credit default swaps, securities lending, and others. Does not count toward the economics major or minor. *Three credit hours.* ATKINSON

[EC211] Corporate Finance I Listed as Administrative Science 311. *Four credit hours.*

EC214s Economic Policy and Performance in Contemporary Latin America Analysis of macroeconomic stabilization policies and microeconomic issues such as regional trade, agriculture, health, education, the environment, and labor markets in contemporary Latin America. *Prerequisite:* Economics 133 and 134. *Four credit hours.* I FRANKO

EC223fs Microeconomic Theory The theory of the pricing, distribution, and allocation of resources in a market economy. Emphasis placed on the various meanings of economic efficiency. *Prerequisite:* Economics 133 and 134, and Mathematics 121, 161, or equivalent. *Four credit hours.* GUNTER, HUBBARD

EC224fs Macroeconomic Theory Devoted to the development and examination of various theoretical frameworks to explain fluctuations in output, interest rates, exchange rates, unemployment, inflation, and economic growth in a globally interdependent economy. Continued study of the theoretical development of macroeconomic models and further refinement of understanding the effectiveness and optimality of macroeconomic policy. Students gain an understanding of the importance of expectations, the determination of asset prices (e.g., bond and stock prices), the relationship between financial markets and the macroeconomy, and the implications and limitations of models and policies. *Prerequisite:* Economics 223. *Four credit hours.* DONIHUE, FINDLAY

EC231s Environmental and Natural Resource Economics The objective is to develop and apply economic tools to current environmental and resource-management issues. Causes of and remedies to environmental and resource-management problems are analyzed through economic modeling. These models in turn serve as the theoretical foundation for designing and evaluating policy instruments and practices. Students will learn to analyze current environmental problems and assess the effectiveness of environmental and resource-management policies using economic tools. *Prerequisite:* Economics 133. *Four credit hours.* DISSANAYAKE

EC252f Presidential Economics An analysis of key fiscal and monetary policies from the Hoover to the Clinton administrations. Topics include macroeconomic policies of the Great Depression, the gold standard, wage and price controls, the Kennedy tax cuts, and supply-side economics. The effects of economic events on political outcomes (e.g., presidential elections) and the effects of political factors on economic policies (e.g., the political business cycle) will also be examined. *Prerequisite:* Economics 133, 134. *Four credit hours.* H FINDLAY

EC254f The Economics of Women, Men, and Work An examination of the past, present, and future economic status of women. Topics include the implications of changing economic and social roles of women for the division of labor in the family; the allocation of time of husband and wife between the household and the labor market; the impact of rising female labor force participation on marriage, childbearing, and divorce; and economic explanations of gender differences in earnings and occupation, including the role of labor market discrimination in observed gender differences in market outcomes. *Prerequisite:* Economics 133. *Four credit hours.* U BARBEZAT

[EC256] Economics of Crime Proceeds from the assumption that criminals are rational to the extent that higher costs of crime will lower criminal activity. Use of economic models to examine topics such as the criminal justice system, law enforcement, markets for drugs and other illegal goods and services, and organized vs. disorganized crime. Major projects include creation of a data portfolio examining one of several sources of national crime data using tables, graphs, and statistical relationships and policy analysis papers drawing on the economic literature to evaluate the effectiveness of anticrime policies and the efficiency of criminal justice resource allocation. *Prerequisite:* Economics 133 and 134 and sophomore or higher standing. *Four credit hours.*

EC258s Economic History of the United States Traces the structure and performance of the American economy through time. The focus is on applying the tools and methods of economics to the study of historical events from colonial times to World War II, including the American Revolution, slavery, the westward movement, the Civil War, and the Great Depression. General topics include the roles of agriculture, trade, migration, technology, banking, institutions, transportation, and labor in the development of the American economy. *Prerequisite:* Economics 133 and 134. *Four credit hours.* SIODLA

[EC271] International Economic Integration An examination of the history, current state, and future of international economic integration. We will analyze the theory of regional and multilateral integration as well as European integration over the last half century, evaluate North American and other free trade agreements, and discuss the General Agreement on Tariffs and Trade and the World Trade Organization. Heavy emphasis on European integration, since the European Union is the most advanced of the preferential agreements and thus provides an ideal laboratory for studying the likely effects of further integration elsewhere. Students will learn how to apply economic tools to the analysis of important policy issues, both orally and in writing. *Prerequisite:* Economics 133 and 134. *Four credit hours.*

EC273f Economics of Globalization Development and application of economic tools of international trade and finance to understand the puzzle of a globally integrated economy. Lectures and student presented debates on key international economic issues, and weekly case studies, focus on policy dilemmas in the global economy. Through readings and debate students learn to assess the validity of contemporary writing on international economics. Specific topics include the Doha development round, the emergence of sovereign wealth funds, the global food crisis, the changing role of multinationals (including emerging market giants), and the role of corporate social responsibility in addressing poverty. *Prerequisite:* Economics 133 and 134. *Four credit hours.* FRANKO

EC279f Economic Rise and Future of China Explores the historical path, current position, and future prospects of the Chinese economy. Examines the dynamics of China's recent economic success, drawing on economic analysis and recent research to understand current policy questions related to China and its role in the global economy. Students will engage with pressing issues through readings, debates, written assignments, and in-class discussions. Specific topics include Chinese monetary and trade policy, population change and the environment, science and technology policy, migration and the rural-urban divide, and the sustainability of China's growth. Previously offered as Economics 298 (Spring 2013). *Prerequisite:* Economics 133. *Four credit hours.* I LAFAVE

EC297Af International Trade An introduction to international trade theory and policy. Topics include the determinants of international trade patterns, gains from trade, distributional effects, the political economy of trade policy, factor movements, labor migration, foreign direct investment, and the history of the evolution from the General Agreement on Tariffs and Trade (GATT) to the World Trade Organization (WTO). *Prerequisite:* Economics 133 and 134. *Four credit hours.* CHAUDHURI

EC297Bf European Economic History The economic development of Europe is traced from the medieval period to modern times. Particular emphasis is given to the growth of economic institutions that preceded those of modern Europe, both pre- and

post-Industrial Revolution. The growth of these institutions is further developed to demonstrate their influence on the United States. *Prerequisite:* Economics 133 and 134. *Four credit hours.* CHAUDHURI

EC298s Comparative Economic Systems Focuses on the nature of different economic systems and organizational structures and the impact of these differences on resource allocation, income distribution, and economic growth in the institutions, systems, and economic outcomes of various countries. Examines the nature of economic systems in general, specific economic systems (capitalism, planned socialism, and market socialism), systemic change, the worldwide performance of various systems and the collapse of the command economies, and transition and performance since the 1990s. *Prerequisite:* Economics 133 and 134. *Four credit hours.* CHAUDHURI

EC331f 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 antitrust laws, and an evaluation of their performances with reference to specific industries and cases. *Prerequisite:* Economics 223. *Four credit hours.* HUBBARD

EC335f Topics in Economic Development An introduction to economic models used to understand problems faced by developing countries. Topics covered, using both theoretical and empirical frameworks, include economic growth, poverty and inequality, demographic transition, household behavior, and the economic and policy implications of incomplete markets. *Prerequisite:* Economics 223 and 224. *Four credit hours.* LAFAVE

[EC336] Mathematical Economics Advanced economic theory designed to give students the fundamental mathematical tools necessary to prepare for graduate work in economics. Topics include the development of portions of consumer, producer, and macro (fiscal and monetary) theory. Material includes comparative static analysis, single- and multiple-agent unconstrained and constrained optimization problems (both under certainty and uncertainty), and dynamic analysis. Students are expected to have learned how to read and understand most current journal articles in economics without stumbling over the mathematics and to have developed an initial understanding of how to frame economic modeling ideas in mathematical format. *Prerequisite:* Economics 224, Mathematics 253, and either Mathematics 122 or 162. *Four credit hours.*

EC338f Money, Banking, and Monetary Policy Students are introduced to the interpretation, role, and determination of interest rates, as well as the theory of consumption/saving, the theory of risk aversion, portfolio theory, the risk structure of interest rates, and the term structure of interest rates (i.e., the yield curve). We will then examine the behavior, structure, and regulation of the banking industry. Finally, students will examine monetary theory and policy with particular emphasis on the implementation of policy by the Federal Reserve. Emphasis on the theoretical, empirical, and policy-related aspects of these issues. *Prerequisite:* Economics 224 and Mathematics 231 or 382. *Four credit hours.* FINDLAY

EC341f Natural Resource Economics An examination of the supply, demand, and allocation of the Earth's natural resources. Topics include renewable resources, nonrenewable resources, water, pollution, and other contemporary problems. The first half is devoted to learning the principles, reasoning, and techniques required to analyze and solve a wide range of natural resource allocation problems. The second half consists of case studies of contemporary renewable and nonrenewable natural resource problems. *Prerequisite:* Economics 223. *Four credit hours.* DISSANAYAKE

EC345fs Research in Economics An analytical, not descriptive, research paper in economics, to be coordinated with an elective economics course in which the student is concurrently, or previously has been, enrolled. *Prerequisite:* Economics 223, 224, and permission of the instructor. *Three credit hours.* FACULTY

[EC351] Public Finance Public finance is the branch of economics concerned with government expenditure and taxation. On the expenditure side, we will model externality and social insurance justifications for government intervention and examine several government policies including Social Security and health-care reform. On the tax side, we will model tax incidence of consumption, income, and wealth taxes and behavioral responses to them. Students will apply their understanding of the models in exams, policy presentations, and writing assignments and will be expected to read and interpret empirical research papers that evaluate the impacts of government policy. *Prerequisite:* Economics 223, 224. *Four credit hours.*

EC353s Urban and Regional Economics Provides an in-depth perspective on the economic activity of cities and regions. The focus is on the use of economic theory to explain various urban phenomena with an emphasis on the role cities play in greater economic development. Specific topics include economic reasons for the existence of cities and specialized regions, urban spatial structure, urban sprawl, housing, local public goods and services, pollution, and urban quality of life. *Prerequisite:* Economics 223. *Four credit hours.* SIODLA

EC355s 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. The operation of labor markets in the macroeconomy, with particular emphasis on the role of implicit and explicit labor contracts in explaining aggregate wage stickiness, inflation, and unemployment. *Prerequisite:* Economics 223. *Four credit hours.* BARBEZAT

[EC373] Open-Economy Macroeconomics Develops basic concepts, analytical framework, and relevant policy issues in an open-economy setting: price level and income determination, the choice of exchange rate regime and its impacts on

macroeconomic stability, constraints on the formulation and implementation of monetary and fiscal policy. Emphasizes some key topics on monetary and international capital markets including cyclicity of fiscal and monetary policies, central bank independence, exchange rate regimes, capital flows, and dollarization. Students will further develop their analytical problem-solving skills and will sharpen their capacity to become critical consumers and critical producers of knowledge.

Prerequisite: Economics 224 and Mathematics 231 or 382. *Four credit hours.*

[EC378] International Trade An introduction to international trade theory and policy. Topics include the determinants of international trade patterns, the gains from trade, distributional effects, increasing returns and scale economies, outsourcing, commercial policy, factor movements, trade agreements, and labor and environmental standards. Students will understand and be able to manipulate the major international trade models and analyze current trade policy issues in the context of these models both orally and in writing. *Prerequisite:* Economics 223. *Four credit hours.*

EC379s Game Theory Introduction to the concepts and applications of game theory, the behavior of rational, strategic agents: "players" who must take into account how their opponents will respond to their own actions. It is a powerful tool for understanding individual actions and social institutions in economics, business, and politics. Students will enhance their analytical thinking and reasoning skills, develop their ability to engage in quantitative analysis and formal problem solving, and hone their ability to think and write with precision and rigor. Specific topics include strategic dominance, Nash equilibrium, subgame perfection, and incomplete information. *Prerequisite:* Economics 223 and a course in calculus. *Four credit hours.* HUBBARD

EC393fs Econometrics An introduction to quantitative methods used for the analysis of economic phenomenon, covering the theoretical development of the ordinary least squares regression framework, tools for model specification and estimation, hypothesis testing, methods for correcting errors in parameter estimation, and the analysis of econometric results in the context of a wide range of empirical applications. Through lab exercises and a final empirical project, develops model-building skills, builds confidence in applying econometric methods to real-world data, deepens the understanding of statistical inference, and improves the capacity for communicating econometric results. *Prerequisite:* Economics 223, Mathematics 231 or 382. *Four credit hours.* DONIHUE, LAFAVE

[EC471] Seminar: Multinational Corporations Provides students with a perspective on how economists think about and evaluate multinational corporations (MNCs). Why do firms become MNCs? What kind of data exist on the activities of MNCs and where can we find them? What are the determinants of multinational activity? How does the presence of MNCs affect employment, wages, productivity, and technology? Readings, drawn largely from recent empirical research papers, and an original research project will provide a thorough understanding and appreciation of the current evidence on MNC activity and how economic research is conducted and evolves. Oral communication skills are developed through presentations, debates, and class discussion. *Prerequisite:* Economics 223, 224 and senior standing as an economics or global studies major. *Four credit hours.*

EC473s Seminar: Economic Forecasting An introduction to time series analysis and the construction and presentation of economic forecasts. Topics include exploratory data analysis, exponential smoothing, ARIMA modeling, econometric modeling, and the analysis of forecast errors. *Prerequisite:* Economics 393 and senior standing as an economics major. *Four credit hours.* DONIHUE

EC475s Seminar: Economics of Global Health Exposes students to emerging issues in the economics of global health. By integrating economic theory and recent empirical work using detailed survey data and experiments, we analyze problems facing developing populations and policies aimed at their solutions. We consider extreme poverty and hunger, child mortality, health care delivery and provider quality, and the relationship between income, poverty, and health. Attention will also be given to global health policy and empirical evidence of the success or failure of policies that target maternal and infant health, anemia, HIV, and malaria. Relies heavily on applying concepts covered in statistics, econometrics, and intermediate microeconomics to reading, discussing, and conducting empirical research. *Prerequisite:* Economics 224 and senior standing as an economics major. *Four credit hours.* LAFAVE

EC476s Seminar: Economics of Ecosystem Services and Biodiversity Ecosystem services and biodiversity face growing threats, and their loss affects human welfare. We will study the economics of providing, valuing, protecting, and restoring ecosystem services and biodiversity. Students will become familiar with the frontier of research at the intersection of ecosystem services and economics. Each student will undertake an individual research project that will enable them to demonstrate skills in identifying research questions and in using current economic methods to answer the research question. *Prerequisite:* Economics 224 and senior standing as an economics major. *Four credit hours.* DISSANAYAKE

[EC477] Seminar: Currency, Banking, and Debt Crises The plethora of currency, banking, and debt crises around the world (especially in emerging markets) has fueled many theories and empirical analyses. An examination of first-generation (fundamentals-based), second-generation (self-fulfilling), and third-generation (contagion) crises, as well as sovereign debt crises and debt sustainability. *Prerequisite:* Economics 224 and senior standing as an economics or economics-mathematics major. *Four credit hours.*

EC478f Seminar: U.S. Social Safety Net Many domestic spending programs have a goal of improving the well-being of low-income citizens. What challenges does the government face when designing these programs and how do they alter behavior? Students will read and discuss scholarly research on topics including welfare, Medicaid, education, Social Security, the earned income tax credit, and personal income taxation. Students will also write an original empirical research paper. Emphasis on

analyzing existing research and developing new research ideas using differences-in-differences methodology. *Prerequisite:* Economics 223 and senior standing as an economics major. *Four credit hours.* GUNTER

EC479f Seminar: Auctions A successfully designed auction depends on the idiosyncrasies of the market being studied. While this makes it difficult to achieve general results, it opens the door to endless applications in need of customized policy advice. Students will learn the core auction formats and some classic theoretical results that provide a benchmark for even the most recent auctions research. They will learn simple empirical strategies that allow these models (and the behavior they predict) to be married with real-world data. Students will develop the tools needed for conducting, and will be required to produce, original auctions research. *Prerequisite:* Economics 223 and senior standing in Economics. *Four credit hours.* HUBBARD

EC482ss Senior Thesis A continuation of a year-long research project, beginning with Economics 345 in the fall semester. The completed research is to be presented in written form and as part of a seminar. *Prerequisite:* Economics 345, senior standing as an economics major, and permission of the sponsor. *Four credit hours.* DONIHUE

EC484s Senior Honors Thesis A continuation of a year-long research project, beginning with Economics 345. The completed research is to be presented in written form and as part of a seminar. *Prerequisite:* Economics 345 and successful proposal defense. *Four credit hours.* FACULTY

EC491f, 492s Independent Study Independent study devoted to a topic chosen by the student with the approval of the department. *Prerequisite:* Permission of the sponsor. *One to four credit hours.* FACULTY

EDUCATION

Director, Professor Mark Tappan

Professors Lyn Mikel Brown and Mark Tappan; Associate Professor Adam Howard; Assistant Professor Karen Kusiak

The mission of the Education Program is to enable students to develop expertise in conceptual and theoretical foundations, research, and practice in the field of education. The knowledge, skills, dispositions, and habits of mind required for such expertise are cultivated within the context of a rigorous liberal arts academic environment, informed by perspectives from a variety of disciplines, enhanced by multiple opportunities to engage in service learning and civic engagement, and animated by a commitment to social justice in schools and society.

Courses in the Education Program explore the impact of cultural assumptions, societal norms, and institutional policies and practices on both individuals and groups. Students and faculty work together to examine the operation of power as it relates to the construction of knowledge and the preservation of privilege. In so doing, students are encouraged to analyze critically the intended and unintended oppressions resulting from specific educational and institutional practices by (1) considering the values and politics that pervade educational institutions, as well as the more pragmatic issues of teaching and organizing schools; (2) asking critical questions about how taken-for-granted assumptions and conventions about theory and practice came to be and who in society benefits from such assumptions; (3) attending to differences in gender, race, social class, sexual orientation, and ability that result in political, social, economic, and educational marginalization and inequality, particularly for children and youth; and (4) examining the connections among different forms of privilege, particularly as these relate to and influence the development of children and youth. Students also are encouraged to move beyond critique to create and implement educational and institutional practices that promote greater social justice and equity in schools and society.

To these ends the program enables students to study the ways children and adolescents learn and develop; the dynamics of the teaching-learning process; and the psychological, philosophical, historical, social, and cultural dimensions of education. Students in the program also participate in a variety of civic engagement, internship, practicum, and social action experiences to gain practical experience in the fields of education and human development.

Three minors are offered under the auspices of the program:

The **education minor** encourages a wide-ranging liberal arts exploration of educational theories, issues, and practices. Students focus primarily on the psychological, philosophical, historical, social, and cultural foundations of education and gain practical experience working with children and/or adolescents in a variety of classroom contexts. It provides preparation for graduate study in early-childhood, elementary, secondary, or special education, as well as for careers in private-school teaching.

The **human development minor** encourages an interdisciplinary approach to understanding the development of children and youth. Students consider a variety of perspectives on the study of human development; examine the relationship between individuals and the social, cultural, and historical context in which they live; and gain practical experience working in an institution or agency devoted to fostering human development and improving human lives. It provides initial preparation for careers in education, social work, human services, and/or social policy, as well as for graduate study in a number of different fields and disciplines.

The **professional certification minor** is approved by the Maine State Board of Education. Students who complete the professional certification minor may select a course of study leading to teacher licensure in Maine for secondary teaching (grades 7-12) in the areas of English, social studies, life science, physical science, or mathematics as well as licensure for grades K-12 in Spanish, German, or French. Maine participates in the National Association of State Directors of Teacher Education and Certification

(NASDTEC) and, through the NASDTEC Interstate Contract, Maine has reciprocity for teacher licensure with 40 other states. An Education Program faculty member will prepare documentation to support Colby graduates when they apply to transfer the Maine teaching certificate to another state.

Candidates for Maine teacher licensure must pass both the Praxis I (basic knowledge and skills) and Praxis II (content area knowledge) exams, undergo a criminal background check and fingerprinting, and complete a portfolio demonstrating competencies in the 10 Maine Initial Teaching Standards. Fees are required for both of the Praxis exams and for the background check. Furthermore, the Maine Department of Education (DOE) charges an application fee. Students may consider applying directly to another state in lieu of completing Maine's requirements. Students who wish to apply directly to another state without first obtaining Maine licensure must contact the department of education in the other state and should also consult with Colby Education Program faculty.

Colby believes that the best preparation for a teaching career is two-fold: (a) a strong background in the liberal arts, including intensive study of the subject to be taught; and (b) appropriate course work and practical experience in education.

Students interested in professional certification should apply to the program in the spring of their junior year. Candidates must have at least a 3.00 average in their major subject area and have completed the appropriate prerequisites for the student teaching sequence. A **ninth semester program** is also available to qualified students. Students in the program return to Colby after graduation to complete the senior student-teaching sequence by working full time in a local school. There is no charge for this program, but students are responsible for finding their own housing off campus. Students interested in the ninth semester program should apply to the program in the spring of their senior year.

Additional information about the professional certification and ninth semester options is available from the program faculty. Early consultation with program faculty and careful planning of the student's course of studies is essential for a successful completion of the minor. This is especially important for students studying abroad.

Finally, students also may pursue an **independent major in either educational studies or human development** under the auspices of the program. Requirements for these majors typically include course work in education, psychology, sociology, and anthropology. A formal proposal for such an independent major must be submitted to the Independent Study Committee. For further information please contact the program chair.

Requirements for the Minor in Education

Education 231 and 493; one practicum or internship; and four electives in education.

Requirements for the Minor in Human Development

Education 215 and 493; one practicum or internship; two electives in education; and two electives in other departments, to be approved by the program chair.

Requirements for the Minor in Professional Certification

Education 213 or 215, 231, 374, 431; one practicum (351); the Senior Student Teaching sequence (433, 437); and two electives in education.

Colby College Pass Rates for Praxis I and Praxis II Exams

The Higher Education Act Reauthorization of 1998 requires that the pass rate of Professional Certification students on the state-mandated teacher exams be reported each year. Pass rates for classes that have fewer than 10 students are not reported, and thus the annual pass rates for Colby College are not available. However, the four-year aggregate score is reported, and Colby's pass rate for the period of 2008-2012 is 100 percent.

Course Offerings

ED111f Metacognition and Academic Success A consideration of factors that contribute to academic and social success in college, highlighting the interrelationship between academic contexts, including nontraditional interpretations of intelligence and learning styles, and social contexts, including race, gender, and class. Focuses specifically on 1) metacognition, including attention, memory, mindfulness, critical thinking, and motivation, and 2) multiple intelligence theory, which suggests intelligence is multifaceted and cannot be captured by standard intelligence tests. Also explores personal strategies and resources that maximize academic success. A third credit can be earned by participating in a campus program such as Campus Conversations on Race or Project Ally, and presenting the experience to the class. *Prerequisite:* Permission of the instructor. *Two or three credit hours.* ATKINS

ED135j Multicultural Literacy Introduces students to the knowledge and skills that constitute multicultural literacy, including: 1) understanding and respecting differences based on race, ethnicity, gender, sexuality, social class, religion, and ability; 2) being aware of one's own culture/background and biases and how these may shape one's interaction with those who are different; 3) mastering key theoretical concepts that shape and inform contemporary approaches to diversity and social justice; and 4) communicating effectively across differences, managing conflict in positive ways, and intervening in negative situations. *Prerequisite:* First-year standing. *Three credit hours.* U FACULTY

ED213f Schools and Society The complex relationships between schools and society will be examined by reviewing a variety of theoretical perspectives and empirical studies. Topics include social mobility and stratification; social reproduction; the dynamics of race, class, and gender in education; various forms of capital; teaching as a profession; and school choice. Particular attention will be given to the ways that small interactions within educational settings have much larger implications within society. *Prerequisite:* Sophomore or higher standing. *Four credit hours.* **U** HOWARD

ED215fs Children and Adolescents: Cases and Concepts Explores the lives of contemporary children and adolescents. Goals include (1) understanding how differences in gender, race, ethnicity, social class, and sexual orientation shape the experience of young people; (2) understanding selected theoretical and empirical work in the field of child and youth studies; (3) developing relationships with local young people; and (4) honing key academic and intellectual skills. In addition, students are required to spend a minimum of 25 civic engagement hours working in a local after-school program. *Four credit hours.* **S, U** TAPPAN

ED217f Boys to Men Listed as Women's, Gender, and Sexuality Studies 217. *Four credit hours.* **S, U** TAPPAN

ED221j Creating Media for Social Change Explores how to create entertaining and educationally effective digital media for youth (preschool to high school), with an emphasis on socially charged curricular areas such as conflict resolution and cultural tolerance. Through extensive screening of media from around the world, lecture, and discussion, students learn to create their own goal-driven media projects. This will include working in small teams to 1) create a short film as part of a collaboration with an Iraqi youth peace initiative, and 2) develop a multimedia, series treatment that addresses an issue that targets American youth. *Three credit hours.* **PIERCE**

ED231fs Teaching for Social Justice An introduction to the theory and practice of teaching, with a particular focus on teaching for social justice in a diverse society. Goals include (1) understanding the concept of social justice and the dynamics of power, privilege, and oppression; (2) developing the knowledge, skills, attitudes, and expertise necessary to teach effectively; and (3) honing key academic and intellectual skills. In addition students are required to spend a minimum of 60 civic engagement hours in a local classroom. *Four credit hours.* **S, U** KUSIAK, TAPPAN

[ED235] Multiculturalism and the Political Project Introduction to the workings, structures, and consequences of prejudice, privilege, oppression, and inequality in U.S. educational institutions and society. A forum for students to surface, explore, and analyze the cultural and structural factors that have privileged some and marginalized others within schools. Through this examination and analysis, students are provided opportunities to gain a deeper understanding of the struggle to address the various factors that maintain and reinforce injustices in the schooling context and larger society. *Four credit hours.* **S, U**

[ED242] History and Philosophy of Progressive Education A survey of the historical and philosophical foundations of progressive education. Focuses on the principles of progressive education that have offered an alternative to conventional assumptions about teaching, learning, and schooling for nearly a century. These progressive principles are examined against the backdrop of standardization and mechanization that, more than ever, dominate schools in the United States. *Four credit hours.*

[ED244] Introduction to Higher Education Enables students to understand the national landscape of higher education in the United States, to become familiar with key moments in the history of higher education, and to analyze the critical issues facing colleges and universities today. Students will also explore strategies for developing engaging, enriching, curricular-driven student life experiences and outcomes, and they will acquire a deeper understanding of their own college experience. *Four credit hours.*

[ED316] Education, the Environment, and Social Justice Environmental education programs in U.S. public schools can be understood as projects with two distinct goals: to raise public awareness of local, national, and global environmental realities and to inspire young people to become caring and compassionate citizens who are reflective, committed, and responsible caretakers of the Earth and of each other. Issues of power, privilege, and oppression in mainstream environmental education are juxtaposed with concerns and issues raised by the environmental justice movement. Students will examine educational institutions and schooling in the context of environmental justice. *Prerequisite:* A 200-level education course or Environmental Studies 118 and sophomore standing. *Four credit hours.* **U**

ED322s Social Class and Schooling The significance of class as a critical dimension of inequality in the United States. Various theoretical, empirical, and pedagogical perspectives on social class and schooling provide a basis for analyzing class stratification in education. Unraveling the cultural dynamics of class distinctions to understand the social, economic, and cultural landscapes within which young people come to understand the meaning of their schooling in a shifting global economy. *Four credit hours.* **U** HOWARD

[ED332] Practicum in Girls' Development and Education Students serve as facilitators of weekly Girls Coalition Groups in local middle schools using a curriculum developed by Hardy Girls Healthy Women. Students undergo training and meet weekly with the faculty supervisor; they develop leadership and group process skills and learn how to apply insights from theory and research to promote girls' development, resilience, and empowerment. Note: Priority to students who will participate during both fall and spring semesters. (Course may be repeated once.) Nongraded. *Two credit hours.*

ED335s Girls Making Change: Girlhood, Activism, and Popular Culture Listed as Women's, Gender, and Sexuality Studies 335. *Four credit hours.* U BROWN

ED351fs Practicum in Education Provides opportunities to serve as assistant teachers, tutor students, work with students individually, observe professional teachers, and prepare and present lesson plans to whole classes in an elementary, middle, or high school. Placement in the Waterville area will be arranged by the professor; students will be responsible for arranging placements in other areas. Nongraded. *Prerequisite:* Permission of the instructor. *One to three credit hours.* TAPPAN

ED351Jj Practicum in Education Provides opportunities to serve as assistant teachers, tutor students, work with students individually, observe professional teachers, and prepare and present lesson plans to whole classes in an elementary, middle, or high school. Placement in the Waterville area will be arranged by the professor; students will be responsible for arranging placements in other areas. Nongraded. *Prerequisite:* Permission of the instructor and at least one course in Education. *Three credit hours.* FOWLER

[ED355] Social Justice Practicum Students serve as assistant teachers in elementary, middle, or high schools serving under-resourced communities (including schools that are affiliated with Teach for America, KIPP, and similar programs). Students tutor, work with small groups, and prepare and present lessons to the whole class. Nongraded. *Prerequisite:* Permission of the instructor and at least one course in Education. *One to three credit hours.*

[ED355J] Social Justice Practicum Students serve as assistant teachers in elementary, middle, or high schools serving under-resourced communities (including schools that are affiliated with Teach for America, KIPP, and similar programs). Students tutor, work with small groups, and prepare and present lessons to the whole class. Nongraded. *Prerequisite:* Permission of the instructor and at least one course in Education. *Three credit hours.*

ED374fs Teaching Students with Special Needs in Regular Classrooms Approximately 10 to 15 percent of students in U.S. public schools qualify for special education services; many receive most, if not all, instruction in regular class settings. A consideration of skills and attitudes necessary for teaching students with special needs in regular settings, and an examination of the roles and responsibilities regular educators have for teaching students who qualify for special education. Additional exploration of psychological, philosophical, historical, and legal foundations of special education. Students also are required to spend a minimum of 20 hours during the semester working in a practicum setting with a special needs teacher. *Prerequisite:* Education 231. *Four credit hours.* KUSIAK

ED398s Elite Schooling in Global Context Elite schooling plays an important role in helping the most powerful and prestigious social classes within nation states maintain and advance their social position while also providing some social mobility for selected marginalized individuals. Particular attention will be given to how elite schools outside the United States are altering curricula to meet demands of the global economy; what students in elite schools are taught about their place and purpose in the global world; how future global and national leaders are being prepared; what links exist between elite schools and changing intersections of class, gender, sexuality, and ethnicity; and how elite schools throughout the world unify tradition and innovation. *Prerequisite:* Education 213, 215, or 231. *Four credit hours.* HOWARD

ED431f Senior Seminar in Curriculum and Methods A consideration of various teaching and assessment methods as well as curriculum design for secondary education classrooms. Students develop knowledge and skills to round out their goal of meeting Maine's Standards for Initial Certification of Teachers. Students explore the meaning of teaching for social justice and apply themes of teaching for social justice to actual classroom experiences. Students write reflections on their teaching experiences, write and present lesson plans, read teacher narratives and research on teaching, create assessment protocols, develop a coherent unit of study using a backward design model, and conduct and present a research paper on recommended practices for teaching in their discipline. *Prerequisite:* Senior standing as a professional certification minor. Must be completed concurrently with Education 433. *Four credit hours.* KUSIAK

ED433f Student Teaching Practicum Students serve as student teachers in a local secondary school, working under the supervision of a cooperating teacher. Use of lesson plans, assessments, and unit plans developed in Education 431. Students manage classrooms and complete administrative tasks associated with secondary teaching. Education Program faculty members make observations in the classroom and note ways in which the student teachers are progressing toward meeting Maine's Standards for Initial Certification of Teachers as well as the ways in which they are applying the framework of teaching for social justice. Nongraded. *Prerequisite:* Senior standing as a professional certification minor. Must be completed concurrently with Education 431. *Four credit hours.* KUSIAK

ED437j Student Teaching Practicum Students serve full-time as student teachers in a local secondary school, working under the supervision of a cooperating teacher and making use of lesson plans, assessments, and unit plans developed in Education 431. Students manage classrooms and complete administrative tasks associated with secondary teaching. Faculty members observe students in the classroom and note their progress toward meeting Maine's Standards for Initial Certification of Teachers and applying the framework of teaching for social justice. Faculty members meet weekly with students to discuss practical aspects of acquiring teacher licensure as well as topics selected jointly by the students and faculty member. Nongraded. *Prerequisite:* Education 433. *Three credit hours.* KUSIAK

ED491f, 492s Independent Study Independent study of advanced topics and areas of individual interest. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY

ED493f Senior Seminar in Education and Human Development A critical examination of selected topics and issues in the contemporary study of education and human development. The focus will vary from year to year but will typically entail in-depth consideration of the psychological, philosophical, social, cultural, and/or historical dimensions of education and human development. Open only to senior minors in education or human development. *Four credit hours.* U HOWARD

ENGLISH

Chair, Professor Cedric Gael Bryant

Professors Jennifer Boylan, Cedric Gael Bryant, Michael Burke, Peter Harris, Phyllis Mannocchi, Laurie Osborne, Ira Sadoff, Debra Spark, and David Suchoff; Associate Professors Adrian Blevins, Natalie Harris, Tilar Mazzeo, Anindyo Roy, Elizabeth Sagaser, and Katherine Stubbs; Assistant Professors Sarah Keller, Emily Kugler, and Megan Cook; Adjunct Assistant Professor David Mills; Visiting Assistant Professors Matthew Burkhart and Rachel Flynn; Director of the Colby Writing Program Stacey Sheriff; Director of the Farnham Writers' Center Paula Harrington

The English Department offers a range of courses on literary productions and cultural representations written in or translated into English. Courses emphasize diversity in historical periods, genres, authors, cultures, and themes. The majority of courses in the major are seminar-style with limited enrollment emphasizing active student participation, critical thinking, analysis, and writing skills. The major in English focuses on the investigation of the central political, cultural, and ideological issues occasioned by texts and representations, particularly issues of race, gender, and class. The major considers various critical approaches, methods of inquiry, and strategies of interpretation. The Creative Writing Program offers fiction, creative nonfiction, and poetry courses at the introductory, intermediate, and advanced levels. The department also offers special-topics courses and supervises about 50 independent study projects and 15 honors theses each year. English is one of the most useful majors for those who want to attend professional schools of law, medicine, and business, as well as for those seeking jobs in commerce, industry, and government. Some majors become teachers; some become writers; some go into journalism, library science, or publishing. 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 Program.

The department also encourages interdepartmental and interdisciplinary studies and supports the programs in the American Studies Program, the Theater and Dance Department, and the Women's, Gender, and Sexuality Studies Program.

Requirements for the Major in Literature Written in English

English 120 or 172, and 271; four 200- or 300-level courses; two 400-level studies in special subjects; two additional courses, which may be chosen from advanced courses in English or American literature, creative writing, or literature in other languages or in translation; one additional 300- or 400-level English course; one senior seminar (English 493). At least three must be courses in which the major focus is upon literature written in English before 1800 and at least three must focus upon literature written in English after 1800. All choices of advanced courses should be planned carefully with the major advisor, who must approve them.

Students taking 120 as the gateway to the major must replace 172 with an additional 200-level English survey course (i.e. 251, 252, 255, 256, 268, 297). Courses that do not count toward the major are English 214 and 474. Two of the cross-listed theater and dance courses may count toward the English major.

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 satisfactory/unsatisfactory.

Honors in English

Students who meet the prerequisite, define a project, and secure the support of a tutor may elect to take English 483, 484, the Honors Thesis, and, upon successful completion, graduate "With Honors in English."

Preparation for Graduate School

Students planning to continue the study of English in graduate school should confer with their advisors 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 for success in graduate study.

Requirements for the Concentration in Creative Writing

In addition to the requirements for the English major, four writing workshops at the 200-level or above. These courses include 278, 279, 378, 379, 380, 382, 386, 478, 479, and 480. Students may count Beginning Playwriting (Theater and Dance 141) as one of their creative writing courses. English majors wishing to pursue a concentration in creative writing should declare the English

with a concentration in creative writing major; the creative writing minor only exists for students whose declared major is not English.

Students are encouraged to take at least one course in a genre other than their sequence genre. Students should note that creative nonfiction classes are not offered as frequently as fiction and poetry classes.

Course Offerings

[EN111] Expository Writing Workshop For first-year students who are non-native speakers of English to advance their skills in academic writing in English, especially their fluency in grammar, syntax, idiom, and the conventions of the American college-level essay. Prepares students for English 115 and other writing-intensive courses through immersion in forms of expository writing and rhetorical modes, with intensive practice in composing essays and revising prose. Nongraded. *Three credit hours.*

EN112fs Writers' Workshop For any student who wants extra work in writing. Taken in conjunction with English 115 or with a writing-emphasis course in another department in any level. Meets as an individual tutorial in the Writers' Center. Each student must meet with the tutor for at least 10 sessions during the semester. The goal is for the students to improve their writing, and the expected outcome is that they will complete the course with improved skills in grammar and essay writing. Nongraded. *One credit hour.* CHAMPOUX, HARRINGTON, SHERIFF

EN114f Global English: Contemporary Expository Writing Across Media An examination of "global English" to gain a better understanding of successful written communication, especially expository writing. We will review grammar, with a focus on the most common linguistic differences from other language groups; examine traditional rhetorical forms, from argument to advertising and from polemic to parody; study new media forms such as blogs, websites, Facebook, tweets, and graphic narratives; and explore these questions: How does language construct, reflect, limit, and transcend cultural meaning? How does usage change and why? What are the arguments for and against such changes? Students with working knowledge of more than one language especially welcome. *Four credit hours.* **W1** HARRINGTON

EN115fs 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. Descriptions of the individual sections can be found on the registrar's website. Students should enter their first-choice section as a course selection and submit alternate preferences via the Web page provided. *Four credit hours.* **W1** FACULTY

[EN115J] English Composition Frequent practice in expository writing to foster clarity of organization and expression in the development of ideas. Assigned reading will vary from section to section, but all sections will discuss student writing. Required for first-year students. Descriptions of the individual sections can be found on the registrar's website. *Three credit hours.* **W1**

EN120fs Language, Thought, and Writing A small seminar teaching writing through instruction in critical reading of literature and writing of critical essays. Multi-genre and writing-intensive, it focuses on different ways of conceptualizing the connections between thought and linguistic expression. Topics include developing skills for reading metaphorically and symbolically, using poetic and narrative models; investigating literature as a form of persuasion; and engaging different historical and critical approaches that enlarge ways of writing about literature and representation. Students will be introduced to some of the primary critical modes of thought in literary and cultural studies. *Four credit hours.* **W1** FACULTY

EN126f American Environmental Writing Since Thoreau: People and Nature Focusing on broad themes such as observing, exploring, working the land, and dwelling in place, we thoughtfully and critically engage American environmental writing since Thoreau. Students learn about and practice environmental writing using the essay, word pictures and figurative language, storytelling, and poetry. Through reading, writing, art, film, and time outdoors, students develop critical thinking and communication skills and gain an appreciation for the content and process of this distinctive style of American writing. Part of the three-course Integrated Studies 126, "The Green Cluster." *Prerequisite:* Concurrent enrollment in Biology 131 (lab section B) and Environmental Studies 126. (Elect IS126.) *Four credit hours.* **L** MACKENZIE

[EN129] Islands in the Sun Considers the ways in which islands function in literature and popular culture as microcosms and reductions of society, as rich metaphors and settings, and as self-contained entities. Students will study imaginative texts and popular culture products that focus on or are set on islands, including *Robinson Crusoe*, *Lord of the Flies*, and *Lost*. *Prerequisite:* First-year standing. *Four credit hours.* **W1**

EN135s Literary New York Writing-intensive, using the literature produced in different eras and locations of New York City as content and as a means of reflecting the economic and cultural dynamism of the city. Sample periods include the Gilded Age, Jewish immigration, the Beats, black arts, and the rise of Wall Street. Involves both close reading of imaginative texts in several genres and mimicry of some of those texts, as well as traditional expository essays. Intensive writing in various modes and active discussion will be emphasized. Part of the three-course Integrated Studies 135, "New York: Global City." *Prerequisite:* Concurrent enrollment in American Studies 135A and 135B. *Four credit hours.* **L,W1** BURKE

[EN137] 1930s Narratives What are the stories people needed to tell in America during the 1930s, and how did they tell

them? The 1930s bear witness to multiple kinds of narration: economic depression and social upheaval, yet the promise of renewal through social incentives at the zenith of the modern age. This writing-intensive course explores several genres and media through which the 1930s channeled its narratives. Students will analyze the relationship between this context and the stories that emerge from within it. Part of the three-course Integrated Studies 137 cluster, "American Stories: Understanding the Great Depression." *Prerequisite:* Concurrent enrollment in American Studies 137 and History 137. (Elect IS137.) *Four credit hours.* L,W1

EN141f Beginning Playwriting Listed as Theater and Dance 141. *Four credit hours.* A CONNER

EN142fs Introduction to Cinema Studies Listed as Cinema Studies 142. *Four credit hours.* A KELLER, WURTZLER

EN151s Reading and Writing About Literature Writing intensive. Students will have the opportunity to develop expository writing skills through frequent writing and revision and through conferences with the professor. Because close reading is such a crucial component of clear thinking and cogent writing, class discussions will model how reading carefully, thinking clearly, and writing convincingly are all key elements in the study of literary texts. Particular topics and readings will vary from section to section. *Four credit hours.* L,W1 KELLER

EN151Af Reading and Writing About Literature Writing intensive. Students will have the opportunity to develop expository writing skills through frequent writing and revision and through conferences with the professor. Because close reading is such a crucial component of clear thinking and cogent writing, class discussions will model how reading carefully, thinking clearly, and writing convincingly are all key elements in the study of literary texts. Particular topics and readings will vary from section to section. *Four credit hours.* L,W1 BRYANT

EN151Jj Reading and Writing About Literature Writing intensive. Students will have the opportunity to develop expository writing skills through frequent writing and revision and through conferences with the professor. Because close reading is such a crucial component of clear thinking and cogent writing, class discussions will model how reading carefully, thinking clearly, and writing convincingly are all key elements in the study of literary texts. Particular topics and readings will vary from section to section. *Three credit hours.* L,W1 N. HARRIS

EN162j Creating Fiction from Life Stories This writing workshop will mine your own life experiences through innovative prompts and guide you away from the land of autobiography into fiction, where your own voice is subverted and your past only serves to enhance the stories you have invented on the page. Along the way we will explore the relationship between the structure of your story and its content. We will write during every class and discuss other published pieces of fiction. We will also work hard to arrive at moments in your writing when you really know your characters and can allow them autonomy on the page, signaling your trust in these new voices you have created. Previously offered as English 197 (January 2013). *Three credit hours.* A CONLEY

EN172fs The English Seminar The initial gateway to the study of literature for English majors, introducing students to the genres of poetry, drama, and fiction; emphasizing close reading; raising issues of genre, form, and an interpretive vocabulary; and providing practice in writing critical essays and in conducting scholarly research. *Prerequisite:* English 115 or equivalent. *Four credit hours.* COOK, MANNOCCHI, STOKES

[EN172J] The English Seminar The initial gateway to the study of literature for English majors, introducing students to the genres of poetry, drama, and fiction; emphasizing close reading; raising issues of genre and form, and an interpretive vocabulary; and providing practice in writing critical essays and in conducting scholarly research. *Prerequisite:* English 115 or equivalent. *Three credit hours.*

EN174j Introduction to Public Speaking The fundamentals of effective presentation for an audience, integrating vocal production, strategies for physical relaxation and poise, research, writing, memorization, argument building, rehearsal, debate and persuasion, supported by critical-thinking skills. Individual and collaborative exercises in each student's major or area of interest, as well as practices from other disciplines. Culminates in a written portfolio and oral performances open to the larger community. *Two credit hours.* DONNELLY

EN179f Imaginative Writing An introduction to creative writing—poetry, fiction, creative nonfiction, screenwriting, graphic story, and memoir. Students will write in each of the genres, perform some of their work in class, read and discuss the work of professional authors, participate in workshops critiquing each others work, and revise extensively. Does not count as part of the creative writing concentration or minor, but will serve as a first experience for interested young writers. *Prerequisite:* Any W1 course or equivalent (may be taken concurrently). *Four credit hours.* A BOYLAN

EN201f Visiting Writers Colloquium With the authors in Colby's Visiting Writers Series as a primary resource, students will read the works of writers in the series and meet occasionally to discuss those works with each other. Students will meet with the visiting writers during their campus visits and speak with working poets, fiction writers, and authors of creative nonfiction about their creative processes and careers. Nongraded. *One credit hour.* BOYLAN

EN214s Tutoring Writing in Theory and Practice A pedagogy and training course for writing tutors and writing fellows that focuses on peer review and collaborative learning in both theory and practice. Readings include essays and articles on peer review,

learning styles and differences, multilingual student writing, strategies of revision, and writing center pedagogy. Assignments include writing, readings, grammar review and practice, a reflective blog, mock tutorials, and supervised tutorials to prepare enrolled students to help their peers improve as writers and to work with faculty as writing fellows. Students completing the course may apply for work-study positions in the Writers' Center. *Four credit hours.* HARRINGTON

EN224f Performance History I Listed as Theater and Dance 224. *Four credit hours.* L COULTER

EN226s Performance History II Listed as Theater and Dance 226. *Four credit hours.* L CONNER

[EN231] Tolkien's Sources An examination of some of the mythologies, sagas, romances, tales, and other writings that are echoed in the stories of Middle-earth. Not an introduction to Tolkien's fantasy literature; a knowledge of *The Silmarillion*, *The Hobbit*, and *The Lord of the Rings* is assumed. Topics include the role of myth and fantasy in society and the events of Tolkien's life as they relate to the world he created. *Three credit hours.* L

[EN237] Postcolonial Pastoral: Ecology, Travel, and Writing A critical examination of the pastoral as a literary genre from a global postcolonial perspective. Conducted at the Bija Vidyapeeth, an institute on sustainable agriculture based in Dehradun, India. Students combine their interest in civic engagement with a critical study of traditions relating to land, food, ecology, sustainability, and community, emerging in the global south. Students reflect on and write about their experiences of land and community from the perspective of informed observers, participants, and travelers. *Prerequisite:* English 115. *Three credit hours.* L, I

EN238j Art of Fly Fishing: Maine and Bishop, California Fly fishing classics and instruction in casting, knot and fly tying. Week three is spent fishing the Lower Owens River near Mammoth Lakes, Calif. Reading of literary classics (including Thoreau, Hemingway, Izaak Walton), critical essays, and blog required. Includes analysis of online nature writing; acquisition of fly fishing techniques: gear choice, knot and fly tying, casting, fly selection and nymphing; and writing a fishing blog that promotes awareness of and respect for the natural environment. Beginners and experienced fly fishers welcome: students must apply to instructor for admission. Course cost: \$1,800 to \$2,000 depending on gear owned. Previously offered as English 297J. *Prerequisite:* Permission of instructor. *Three credit hours.* L SUCHOFF

EN244f 19th-Century American Poetry A study of the revolutionary poetics of Whitman, Dickinson, Dunbar, and others. We will examine how these poets challenged the function of art and form and reconstituted the meaning of an American art. Students will discuss the poems in class; write analytical papers; study the letters, treatises, and historical contexts of the poems; and engage in communal discussions of the poetry. *Prerequisite:* Any W1 course or equivalent. *Four credit hours.* L SADOFF

EN251j History of International Cinema I Listed as Cinema Studies 251. *Three credit hours.* A KELLER

EN252s International History of Cinema II Listed as Cinema Studies 252. *Four credit hours.* A WURTZLER

EN255f Studies in American Literary History: Pre-1860 Introduces English majors to key movements in American literature and works written by American writers of different cultural backgrounds. Attends to themes that run throughout American literature prior to 1865 and considers how and why they are adapted and transformed. Explores the role of literature in shaping conceptions of the American self and how it has been used as a form of social protest. Traces the development of the American literary tradition, with particular attention to relationships between generic traditions, contexts surrounding the birth of certain genres, and how genre relates to a work's cultural and historical context. *Four credit hours.* L STUBBS

EN256s Studies in American Literary History: Civil War to the Present American literature from the Civil War to the present. Examines literary works in all genres in their relationship to the times they both reflect and shaped and explores their significance for readers in later and different worlds. *Four credit hours.* L BURKHART

EN264f Comparative Studies: Emily Dickinson and English Poetry Survey course for students interested in understanding the fundamentals of literary study, offering a broad introduction to one or more of the following: the evolution of periodization, genre, form, canonicity, national and cultural tradition, and media. Considers how a comparative approach—contrasting, for example, two or more historical periods of literature or two or more forms of imaginative expression—can deepen our understanding of both objects of study. May look at how one author is read over the course of different centuries, how new media can respond to and reshape traditional genres, or how cultural institutions can impact our understanding of literature as part of a certain period or national tradition. *Prerequisite:* Any W1 course or equivalent. *Four credit hours.* L SAGASER

EN268s Survey of International Women Writers Through lectures, discussion, and critical writing, students will explore different aspects of creativity that have inspired international women writers in their struggle for civil and political rights. Designed to attract, in addition to English majors, students from global studies, anthropology, women's studies, and sociology who are not specifically trained in literary analysis. Students will be trained to read fiction with a critical eye and will be encouraged to respond to specific historical and cultural contexts and to write from varying perspectives—as ordinary readers, as historians, and as cultural critics. *Prerequisite:* English 115 or equivalent. *Four credit hours.* L, I ROY

EN271fs Critical Theory Introduction to major ideas in critical theory that influence the study of language, literature, and

culture. Students gain mastery over an array of theoretical discourses and develop awareness of how underlying assumptions about representation shape reading practices. Possible approaches include classical theory, cultural materialism, structuralism, poststructuralism, psychoanalysis, Marxism, feminist theory, or postcolonial theory. Students learn to read complex arguments, recognize assumptions about interpretation and language, and use theoretical approaches and tools for interpreting the systems of representation that constitute culture. *Prerequisite:* English 120 or 172 (may be taken concurrently.) *Four credit hours.* L MAZZEO, SUCHOFF

EN278fs Fiction Writing I A course in writing short literary fiction. No prior experience with fiction writing presumed, only interest. Class sessions will be devoted to talking about fiction basics, analyzing short stories, and critiquing fellow students' fiction in workshops. Outside of class, students will be writing fiction exercises and complete stories, as well as reading professional stories. By the end of the semester, students should have insight into the creative process. They should have learned the basics of the craft of writing, and they should have practiced what they have learned through writing and rewriting. *Prerequisite:* English 115 or equivalent. *Four credit hours.* A N. HARRIS, SPARK

EN279fs Poetry Writing I Students will learn to identify and internalize the fundamental techniques and strategies of poetry. Each week students will read the work of published poets, write their own poems, read poems aloud, and critique the work of their peers. To help hone writing abilities and aesthetic judgment, there will be practice in revision and in analytic craft annotation. By semester's end, students will produce a portfolio of revised poems and a statement of what they have learned about their creative process, their aesthetic preferences, and their growing mastery of craft. No prior experience with poetry presumed. *Prerequisite:* English 115 or equivalent. *Four credit hours.* A FLYNN

EN279Jj Poetry Writing I Students will learn to identify and internalize the fundamental techniques and strategies of poetry. Each week students will read the work of published poets, write their own poems, read poems aloud, and critique the work of their peers. To help hone writing abilities and aesthetic judgment, there will be practice in revision and in analytic craft annotation. By semester's end, students will produce a portfolio of revised poems and a statement of what they have learned about their creative process, their aesthetic preferences, and their growing mastery of craft. No prior experience with poetry presumed. *Prerequisite:* English 115 or equivalent. *Three credit hours.* A P. HARRIS

EN280f Creative Nonfiction Writing I A creative writing workshop that introduces students to the forms and possibilities of creative nonfiction, including essays of time and place, memoirs, profiles, and literary journalism. Progresses through a review of models, writing exercises, drafts, and finished pieces, with an emphasis on the workshop process, in which students share work and comment on each others' efforts. For 2013, includes an examination of self-censorship. Censorship has usually implied the censor and the censored, but for many writers these two beings are combined into one—the writer, who performs the censorious operation on him/herself. *Prerequisite:* Any W1 course or equivalent. *Four credit hours.* A BURKE

[EN311] Middle Ages: Medieval Narratives and Cultural Authority A survey of selected late medieval narratives and the ways in which they resist various forms of cultural and institutional authority in 14th-century England and 15th-century France. Reading canonical authors and others who have only recently been included in the body of work commonly studied and taught. Investigation of the literary, historical, theological, and social contexts in which these works were written and transmitted. While remaining open to the multiple meanings and values of these works, focusing specifically on the transgressive (if sometimes subtle) dissent that informs many different genres of later Middle English writing. *Four credit hours.* L

[EN313] Renaissance Poetry The nature, power, and history of poetry; the forms and uses—social, political, religious, personal—of lyric and narrative poetry written in English during the 16th and early 17th centuries. Analysis of the poems' constructions of voice and their representations of thought, selfhood, national identity, love, desire, faith, and mortality. The period's poetic theory, including important defenses of poetry, and the debate about rhyme. Readings in Wyatt, Pembroke, Spenser, Sidney, Marlowe, Raleigh, Daniel, Campion, Shakespeare, Donne, and others. *Four credit hours.* L

EN314f 17th-Century Poetry A course centering on both canonical and less canonical poems written in England's volatile 17th century (during the reigns of James I and Charles I, through the Revolution, Commonwealth, and Protectorate, and into the early years of the Restoration), with a particular focus on Milton's *Paradise Lost*. We will give great attention to the craft of early modern poems—their language and syntax, forms and tropes, aural power, and representations of voice. At the same time, we will explore the political, religious and social upheavals that give 17th-century poetry its intensity. Questions of gender and authorship, along with representations of femininity and masculinity, will be recurrent focal points. Involves a marathon class reading (12-13 hours) of Milton's *Paradise Lost*, the epic that wrestles spectacularly with all the themes of the course. *Four credit hours.* L SAGASER

EN315s Medieval Saints and Sinners What did it mean to be very good—or very bad—in the Middle Ages? We will consider possible answers to this question through readings drawn from a variety of medieval genres and textual traditions, including saints' lives, autobiography, allegory, and handbooks for confessors. We will consider how these stories work as literature that also endeavors to show readers how to live their lives, and will explore the ways that religion, gender, and social class all affect prescriptions for moral living. No previous experience with Middle English is required. *Prerequisite:* English 172. *Four credit hours.* L COOK

[EN317] Drama and Lyric Poetry of the Restoration and Early 18th Century The Restoration and early 18th century changed the way we watch, participate in, and think about plays and poetry. For the first time, women performed on the English

stage, occasionally in works by the first female professional playwrights, such as Aphra Behn. As the century progressed, English theater and poetry continued to evolve, drawing on the past to create the sense of a national tradition and solidifying Shakespeare's place as a cultural icon. At the same time, they challenged and debated issues of the present, such as class conflict, the role of religion in government and society, empire, the role of women, and slavery. *Four credit hours.* L

[EN318] 18th-Century British Literature II Selected works by writers of the second half of the 18th century. *Four credit hours.* L

EN319s Fictions of Empire Using Edward Said's *Orientalism* as a starting point, an exploration of the rich literature of the long colonial era beginning with the 17th century and leading up to the 20th. The complex ways in which the historical, social, and political forces accompanying colonization produced the sense of the "other," one that served to define and limit, but also test, the often fluid borders of Western identity and culture. Authors include Shakespeare, Jonson, Aphra Behn, Conrad, and Kipling. *Four credit hours.* L, I ROY

[EN321] Topics in Film Theory Listed as Cinema Studies 321. *Noncredit.*

EN322f British Romanticism A study of the literature and culture of the British Romantic period (1770-1840) in its national, international, and comparative contexts. In addition to consideration of canonical writers (e.g., the Shelleys, Byron, Wordsworth, Coleridge, Keats, Blake), includes representative texts from studies in political theory, popular poetry and fiction, travel and exploration, cultural materialism, other national literatures, and sub-genres such as the gothic or contemporary drama. The selection of writers varies each semester and the course may be taken more than once. Well-prepared non-majors are welcome. Previously listed as English 321. *Prerequisite:* Sophomore or higher standing; English 271 recommended. *Four credit hours.* L MAZZEO

EN323f Victorian Literature I The idea of "culture" in the mid-Victorian period and the social pressures of class, religion, gender, and race that formed and transformed it. Readings include Victorian predecessors such as Walter Scott, novels by Charles Dickens, Emily Brontë, and George Eliot, prose by Thomas Carlyle, J.S. Mill, and Matthew Arnold, and poems by Alfred Tennyson and the Rossettis. Novels, essays, and poems considered as participants in Victorian debates that created "culture" as a political category and helped shape modern literary and cultural criticism. *Four credit hours.* L SUCHOFF

[EN324] Victorian Literature II Examination of the transformations that questions of empire, race, sexuality, and popular social discontent registered in late-19th-century British culture through early modernism. Study of this *fin-de-siècle* period by concentrating primarily on the growing split between a "high" culture, which fears an increasingly democratized society, and the popular voices of the period. Authors include Browning, Hardy, Wilde, Yeats, Synge, Joyce, and others. Overall course objective: critical thinking. Discussion and close attention to the text in class and in writing are considered. *Four credit hours.* L

[EN325] Modern British Fiction A historically informed critical study of modern British writers between 1898 and 1945, namely Thomas Hardy, Joseph Conrad, H. G. Wells, E. M. Forster, James Joyce, Virginia Woolf, D. H. Lawrence, and Aldous Huxley. Focus is on the competing visions of modernity and the ways in which these writers simultaneously challenged and upheld the dominant social, cultural, political order and the sexual codes operating within urban British society. Special attention to questions about literary representation and history and to issues of language and form that emerge within the context of an emerging modernist tradition in Britain. *Four credit hours.* L

EN329f 21st-Century Comparative Literature A consideration of contemporary literature of the first decade of the 21st century, with an international focus. We will read some of the most innovative novels of the current moment in an effort to think more broadly about issues of genre, narrative, modernity and postmodernity, the aesthetics of postindustrial capitalism, globalism, and the resonance between current events and literary representation. Writers featured range from American authors such as Don DeLillo to Polish author Magdalena Tulli and Norwegian writer Per Petterson. Non-majors are welcome. All works are read in English. Previously listed as English 397C (Fall 2012). *Prerequisite:* English 271 recommended, but not required. *Four credit hours.* L MAZZEO

[EN335] American Independents: Their Art and Production Listed as American Studies 335. *Three credit hours.* A

[EN336] Early American Women Writers Is there a female literary tradition in America? Moving from the Colonial era to the early 20th century, an exploration of many of the themes central to women's lives and an investigation of the literary genres traditionally associated with women's writing, exploring the insights of feminist historians, and assessing the recent critical reclamations of "female" genres such as domestic fiction and the sentimental. *Prerequisite:* English 172. *Four credit hours.* L, U

EN341s American Realism and Naturalism Three literary genres that dominated late 19th-century American literature: realism, regionalism, and naturalism. How these cultural categories developed in relation to specific social and economic conditions. *Four credit hours.* L STUBBS

[EN344J] 19th-Century American Poetry Concentrates on the poetries of Dickinson and Whitman, but also examines Emerson, Dunbar, and a few of the so-called Sentimental poets. These poets all wrote during a period of growing American expansionism and liberalism, and they had a concomitant faith in the transformative powers of art, thereby altering the texture

and dynamic of poetry itself. Dickinson and Whitman both explore the boundaries of gender and sexuality, selfhood and identity, spirituality and death, as well as their place in their cultural moment. *Prerequisite:* English 172, 271, and sophomore or higher standing; one of 255, 256, or 266 strongly recommended. *Three credit hours.* L

[EN345] Modern American Fiction Major works of American fiction since 1920—by Faulkner, Hemingway, Fitzgerald, Bellow, O'Connor, Alice Walker, and others—will be analyzed, emphasizing the pattern of experience of the protagonist in conflict with the modern world. *Prerequisite:* English 115 or equivalent. *Four credit hours.* L

[EN346] Culture and Literature of the American South In a cold, New England dormitory, a northern student asks his southern roommate to "tell about the South." The effort to do so engenders not just one narrative about what it means to grow up amid the palpable shadows of the Civil War and institutional slavery, but a whole tradition of imaginative fiction demarcated by elusive terms like "regionalism," "grotesque," "realism," and "modernism." Because so many of our writers are Southerners by birth, experience, and disposition, the South, as myth and reality, has become a trope for what is essentially and problematically "American"—and what isn't—in our literature and cultural history. *Four credit hours.* L

[EN347] Modern American Poetry An examination of the Modernist movement in American poetry: the aesthetics, manifestos, and historicity of high and low Modernism. Analysis of work by various figures from the period, including Pound, Stein, Eliot, Moore, Stevens, Williams, H.D., and Hughes. *Prerequisite:* English 172 or 271 recommended, but not required. *Four credit hours.* L

[EN348] Postcolonial Literatures An introduction to modern global literature through the intensive exploration of postcolonial literature from Africa, South Asia, and the Caribbean. Specifically addresses the ways in which postcolonial literature challenges, modifies, or radically alters the inherited legacy of colonialism; re-imagines the dominant narratives of both Empire and nationhood; interrogates gender and class politics; and questions the cultural politics of modern neo-imperialism. Writers include Achebe, Soyenka, Ngugi, Coetzee, Habila, and Adichie (from Africa); Rushdie, Ghosh, Desai, Selvadurai, and Aslam (from South Asia); Césaire, Lamming, Walcott, Kincaid (from the Caribbean); and Kureishi, Okri, and Emecheta (from postcolonial Britain). *Four credit hours.* L, I

EN351j Contemporary American Poetry A study of the two branches of contemporary American poetry: lyric poets Louise Gluck and Olena Kalaytik Davis, and narrative poets C.K. Williams and Yusef Komunyakaa. These poets reflect different aesthetic, social, moral, and metaphysical stances both toward their art and toward the age in which we live. Close, analytical readings of the poetry are supplemented by occasional historical and aesthetic documents that contextualize the ramifications of their artistry. *Prerequisite:* English 120 or 172. *Three credit hours.* L SADOFF

[EN353] The American Short Story A historical, cultural, and analytic look at the American short story from its origins to the current day, including works by Hawthorne, Melville, Freeman, Hemingway, Fitzgerald, Hughes, O'Connor, Updike, Cheever, Baldwin, O'Brien, Robert Olen Butler, Carver, Grace Paley, Jamaica Kincaid, Louise Erdrich, and John Barth. Students will write two papers and a take-home exam synthesizing class concerns and will respond to a structured question on weekly forums. The forums serve as triggering devices for class discussions. *Prerequisite:* English 172 and 271. *Four credit hours.* L

[EN360] The Car in Modern American Literature and Pop Culture Examines the signal intersections between mass culture, literary production, and the American car—the "machine in the garden" that as symbol and substance, myth and reality, metaphorizes modernism and postmodernism in the 20th century. An eclectic combination of "texts," including fiction by Flannery O'Connor, Stephen King, and F. Scott Fitzgerald; music by the Eagles, Bob Seger, Tracy Chapman, and Patti Griffin; films by Martin Scorsese and Jonathan Demme; and deconstruction theory, are among required readings. *Prerequisite:* English 115. *Four credit hours.* L, U

[EN364] Buddhism in American Poetry Non-Western religions have affected American poets as far back as Emerson and Whitman. By the beginning of the 20th century, East Asian poetry's emphasis upon unelaborated image had sparked the revolutionary poetics of Pound and William Carlos Williams. Since World War II, the rise of Zen practice in North America has prompted many poets to explore the kinship between poetry and Buddhism's non-dualistic world view. Emphasis will be on readings in Zen and in contemporary American poetry. *Four credit hours.* L

[EN365] The Sublime, Supernatural, and Subversive The intersection of race, gender, and sexuality in popular culture of late 18th-century Britain. Drawing on genres of gothic and horror, we will discuss the ideologies that produced them as well as how these works continue to influence literature, film, and other texts. On the surface these texts may seem escapist, but underneath the warm Mediterranean landscapes, haunted castles, isolated abbeys, demons, despotism, and secret family histories of betrayal, murder, and incest, the genre also reflects the time of social and political revolutions. We will probe the ways constructions of 'otherness' act as projections about an unstable construction of British selfhood. *Prerequisite:* Some background in critical theory (such as English 271 or Women's, Gender, and Sexuality Studies 201) strongly encouraged. *Four credit hours.*

[EN368] Great Books by American Women of Color: from Hurston to Danticat Listed as American Studies 368. *Four credit hours.* L, U

EN368J Great Books by American Women of Color: from Hurston to Danticat Listed as American Studies 368J. *Three*

EN378fs Fiction Writing II An advanced workshop in writing fiction. Focuses on the writing and revision of the literary short story, with particular attention to the structure of dramatic action, character, texture and tone, inspiration, and the process of revision. *Prerequisite:* English 278. Admission may require submission of a manuscript. *Four credit hours.* BOYLAN

EN379fs Poetry Writing II Presupposes basic familiarity with the poetic uses of metaphors, images, lines, and fresh and rhythmic diction. Requires students to read more extensively and analytically in contemporary poetry and continue their practice working with the kind of divergent thinking that makes poetry possible. Students will also undertake a more sophisticated investigation of the interplay of syntax with lineation, the nuances of pacing and structure, the resources of associative thinking, the gambits of rhetoric, and the complexities of tone. Final portfolio, emphasis on revision. *Prerequisite:* English 279. *Four credit hours.* FLYNN, P. HARRIS

EN380s Creative Nonfiction Writing II Advanced course in creative nonfiction. Students will refine their knowledge of the types and tropes of creative nonfiction, and will advance their ability to produce quality nonfiction, through the use of the workshop method. Students will be urged to focus on memoir; personal, reflective, or juxtaposition essays; literary journalism; or adventure narratives. Familiarity with particular examples of nonfiction, exercises, and intensive drafting and review of student work are required. *Prerequisite:* English 280 or other nonfiction writing course. *Four credit hours.* A BURKE

[EN382] Environmental Writing: Writing on Place Creative writing using the workshop method to teach students about the principles, strategies, and achievements of writing about the relationship of human to nonhuman. Focus on the role that place plays in that relationship. Students study professional models, draft exercises, workshop their peers' writings, and produce finished essays and narratives for a final portfolio. *Four credit hours.* A

[EN383] Travel Writing A writing-intensive seminar on travel writing, publishing, and literary journalism. We will read broadly in the history of travel writing as a genre in order to consider its intended effects and its signature devices. Offers an introduction to publishing and to careers in travel writing and literary journalism. Open to non-majors. Counts as post-1800 for English majors. *Prerequisite:* Any W1 course or equivalent. *Four credit hours.* L

EN386f Special Topics: Documentary Radio Students will listen to and make a variety of short documentary pieces, learning how to use recording equipment, interview, write radio scripts, and edit and mix sound. They will produce radio essays, public service announcements, vox pops (person-on-the-street-type interviews), soundscapes, and profiles. They should expect to go off campus for assignments, as well as to spend time in the Theater and Dance Department's sound studio. Includes readings about sound reporting and the making of "This American Life," as well as guests from on and off campus. *Four credit hours.* SPARK

EN386Bs Special Topics: Leaps, Surprises! Figures and Images in Poetry Students will study the language of folktales, myths, and dreams to discover the power of comparison and association in poetry then bring it successfully into their own work. A combination of open discussion, workshop, and individual projects, this class spans centuries and cultures as we look at leaps in Spanish poetry, dark humor in Eastern European works, and universal symbol in African tales. We will seek inventive ways to use imagery and figures of thought to enhance texture and richness, chasing away sentimentality and cliché. We will examine how the Surrealists and Imagists create art and ask questions such as, "How can we use allusions to fairy tales or Greek myths in a fresh way?" and "What is the role of hyperbole in Russell Edson's poems?" *Four credit hours.* FLYNN

[EN387] Graphic Novel Surveys the history and theory of the comic book and graphic novel. Readings focus on the alternative tradition (1980 to the present). Attends to developing a critical vocabulary for analyzing text-image combinations. Likely texts include: Art Spiegelman's *Maus*, Chris Ware's *Jimmy Corrigan, The Smartest Kid on Earth*, David Mazzuchelli's *Asterios Polyp*, Alison Bechdel's *Fun Home*, Howard Cruse's *Stuck Rubber Baby*, Lynda Barry's *One Hundred Demons*, Phoebe Gloeckner's *A Child's Life and Other Stories*, and Jaime Hernandez's *The Death of Speedy*. *Four credit hours.* L

EN397j Multiethnic American Literature Moving between literary, cinematic, and historical texts, we will address how the interaction of multiple cultures has led to the shaping of the United States over the centuries following initial European contact. The central groups we will focus on include Native Americans of several tribal backgrounds, African Americans, Mexican Americans, Asian Americans, and Euroamericans. We will consider aesthetic expressions arising out of these groups alongside the historical conditions from which those texts emerge, contemplating efforts to establish, maintain, and refine cultural self-definition in the context of a nation historically envisioned as a melting pot. *Prerequisite:* English 115 or equivalent. *Three credit hours.* L BURKHART

EN398s Native American Literature Native American prose and poetry written in the 19th, 20th, and early 21st centuries. We will focus on how selected texts arise out of complex, tribally-specific traditions of oral, visual, and written expression. We will discuss how many of these texts are in conversation with other media, giving special consideration to how authors engage material culture, cinema, and popular culture. We will consider the relationship between cultural expressions and historical contexts out of which they arise. How does a text stand in relation to the aims of cultural sovereignty or self-definition in cultural landscapes that historically have not given sufficient weight to indigenous self-representations of community and environmental and political values? *Prerequisite:* English 115 or equivalent. *Four credit hours.* L BURKHART

[EN411] Queer Shakespeare Explores representations of same-sex desire, in several Shakespearean works and the intersections between Shakespeare studies and queer theory though work on male friendship and amity in the plays, historical assessments of the Early Modern representations of lesbian desire and sodomy, and recent criticism on queering Shakespeare. Significant writing required. Fulfills pre-1800 requirement. *Four credit hours.* L

[EN412] Global Shakespeares Examines international appropriations of Shakespeare's plays, principally through film but also through exploration of translation practices and adaptations. Explores Shakespeare's plays within the context of intercultural dialogs, theories about cultural imperialism, and filming practices in global markets. Significant research required. Required film screenings. Fulfills pre-1800 requirement. *Four credit hours.* L

EN413Df Author Course: Chaucer's *Canterbury Tales* Learn Middle English as we read and analyze a selection of the stories drawn on Chaucer's great literary road trip, *The Canterbury Tales*. Attention will be given to issues of Chaucer's sources, narrative personae, and generic variety, as well as to key themes in recent Chaucer criticism. Through secondary sources, we will develop a context for our readings that includes consideration of the political, social, and literary contexts of late medieval England. No previous experience with Middle English is required. *Prerequisite:* English 172. *Four credit hours.* L COOK

EN413Es Author Course: Nathaniel Hawthorne and Herman Melville An examination of significant works by each author, considered through multiple lenses: their life histories; relationship with each other; and the larger historical, cultural, economic, and political contexts conditioning their representations. We will pay special attention to how critics in the new millennium have understood these texts, focusing on the new interpretations made possible by the insights of recent scholars of gender and sexuality. *Four credit hours.* L STUBBS

EN413Ff Author Course: William Faulkner Close reading of William Faulkner's major short fiction and novels in the context of the modernist struggle for authority and authenticity. The provocative, cross-racial literary discourse between black and white writers during the modernist period will be theoretically situated into a larger cultural context. The "burden of Southern history," the vanishing wilderness, and the politics of race and gender will help thematize the fiction that transformed Faulkner from an almost-out-of-print regionalist writer in 1945 into the Nobel Prize recipient just five years later. *Four credit hours.* L BRYANT

EN413Gs Author Course: Cormac McCarthy: Novels and Film Adaptations What Flannery O'Connor famously said in 1960 about the influence of William Faulkner's novels and stories on American writers may be said with equal force about the early 21st-century impact of Cormac McCarthy's fiction: "No one wants his mule and wagon stalled on the same track the Dixie Limited is roaring down." O'Connor's paradoxically intimidating and inspiring caution is put to the test by close reading McCarthy's major novels and their film adaptations, including *All The Pretty Horses*, *The Road*, and *No Country For Old Men*, that contribute to the ongoing regional and national dialogue concerning violence and divinity, "being and nothingness," art and entropy. *Four credit hours.* L, U BRYANT

EN413Hj Author Course: Henry James and Edith Wharton How biographical information and critical responses aid in understanding the key themes, literary projects, and central problems of major works by two of the most famous writers of the American literary tradition, Henry James and Edith Wharton, and how their close friendship may have affected their work. Several filmic adaptations of their texts will also be considered. *Three credit hours.* L STUBBS

EN413Js Shakespeare Texts and Contexts: Renaissance London and 19th-Century America A close study of Shakespeare's poetics, rhetorical strategies, inventive language, and character construction in five major plays, with attention to how this literature was enabled by the cultural, political, and economic realities of London in the late 16th and early 17th centuries. We will then seek Shakespeare in the growing nation across the Atlantic. Each student will journey through primary sources in Colby's Special Collections to make individual discoveries about the bard's impact on pre-20th-century American life. Throughout, we will think critically about canon formation, the role of literature in national and personal identity, and the complex process of constructing knowledge. *Four credit hours.* L SAGASER

[EN417] Literary Criticism: Derrida, Levinas, and Alterity Readings in deconstructive theory and its relation to ethics and the question of the "other." With Emmanuel Levinas and biblical texts as background, a reading of Jacques Derrida's late texts on the gift, hospitality, the question of the nation, and his rethinking of the idea of tradition in a transnational context, examining sources for postmodern thought in religious texts and philosophy. *Prerequisite:* English 271 or a philosophy course. *Four credit hours.* L

[EN418] Cross-Dressing in Literature and Film Examines a wide range of texts and films from Early Modern texts by Jonson, Shakespeare, and others which use cross-dressing to 18th century novellas like Henry Fielding's *The Female Husband* and autobiographies to 19th-century novels to 20th-century plays like *M. Butterfly* to films including *Tootsie*, *Victor/Victoria*, and *The Crying Game*. We will explore the way cross-dressing and disguise function within culture and literature to challenge and possibly reinforce gender boundaries. Significant research required. Required film screenings. Fulfills pre-1800 requirement. *Four credit hours.* L

[EN435] Narratives of Contact and Captivity We will explore the vexed, often violent encounters, interactions, and inter-penetrations of Europeans, Africans, and the indigenous peoples of the Americas. By examining a wide range of representations—both narrative and visual—of the 17th, 18th, and 19th centuries depicting contact and captivity, we will

investigate critically the construction of gender, race, and nation. *Prerequisite:* English 172. *Four credit hours.*

[EN457] American Gothic Literature Horror, especially gothic horror of the American variety, always masquerades as something else; it can usually be found "playing in the dark," in Toni Morrison's phrase, or beneath a monster-other mask. Surveying horror's effects—the narrative strategies that make horror fiction so horrifying—is a focus, but emphasis is on learning to use various critical tools, Jungian myth, psychoanalytical, feminist, and race criticism to explore the deeper, semiotic relation of signs and signifying that codify the cultural meaning behind the monster masks—werewolves, shape-shifters, vampires, succubi, demons, and (extra)terrestrial aliens—that conceal a humanity too terrifying to confront consciously. *Four credit hours.* L, U

EN474f Public Speaking An intensive course in the practice of public speaking, with special attention to current political and social issues and the development of an effective and persuasive platform personality. Attendance at campus debates and speech contests required. *Four credit hours.* MILLS

EN478s Advanced Studies in Prose An advanced "group independent" workshop, providing a capstone experience to creative writing concentrators and minors working in fiction, drama, or creative nonfiction. Students will execute a semester-long writing project. This may be a series of short stories, a novella, novel chapters, a script, a screenplay, or some other project to be approved by the instructor. *Prerequisite:* English 378 or 379. *Two to four credit hours.* BOYLAN

EN479s Advanced Studies in Poetry An advanced "group independent" workshop, providing a capstone experience to creative writing concentrators and minors working in poetry. *Prerequisite:* Permission of the instructor. *Two to four credit hours.* P. HARRIS

[EN480] Teaching Poetry in the Schools A service learning class in which Colby students teach the writing of poetry at community elementary schools. *Four credit hours.*

EN483f, 484s Honors Thesis An independent, substantial project approved by the department. The student will work in close consultation with a faculty member. Students are responsible for selecting their faculty tutor and submitting their proposal by May of their junior year. *Prerequisite:* A 3.25 grade point average in the major and approval from a faculty tutor. *Two to four credit hours.* FACULTY

EN491f, 492s Independent Study Individual projects exploring topics for which the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Permission of a project advisor and the chair of the department. *One to four credit hours.* FACULTY

EN493As Passionate Expression: Love, Sex, and Sexuality in Western Literature How did women of the 18th century negotiate having public identities—as actresses, activists, authors, and even occasionally, soldiers—at a time when they lacked many of the political and legal statuses we now see as basic human rights? Their goals differed: some sought individual freedom, many wanted political change (e.g., animal rights, abolition, educational reform, political revolution), and a few just seemed to want to entertain others. We will focus in particular on the use of comedy in their self-representations as well as to what extent their work fits into current definitions of feminist activism and theory. *Four credit hours.* L MANNOCCHI

EN493Bf The Beats and the New York School Poets The historical moment of the 1950s and early '60s—repressive, suburban, conformist, cold-war and corporate influenced—produced resistance among poets to the politics and canonical views of their age. In the process these artists challenged the function of art and artistic form. Influenced by Whitman and Williams, the Surrealists and the paintings of abstract expressionists, these poets' free verse poems and anti-academic stances still dominate American poetry. We will study the poems of Ginsberg, Snyder, Ashbery, O'Hara, Berrigan, Notley and others and read historical and critical documents concerning the age and art. *Four credit hours.* L SADOFF

EN493Cs Going South: The Southern Short Story and Its Traditions The American short story has deep roots in the culture, imagination, and politics of place and timesouth of the Mason Dixon line. Places with real and apocryphal names like Andalusia, Hohenwald, Jackson, and Yoknapatawpha that are home to a motley crew of characters who live at the P.O., or "beyond the pale" in the Harrikin, where a good man (or woman) is hard to find, and the way to or away from them is a worn path. This senior seminar is a close reading of the short story practices of American southern writers, including Tom Franklin, William Gay, Flannery O'Connor, Alice Walker, Chris Offutt, William Faulkner, and Eudora Welty, and the literary traditions, themes, and narrative techniques they have helped to shape in the long 20th century, particularly minimalism; the political body; a mythopoetics of place; and the Southern grotesque. *Four credit hours.* L BRYANT

EN493Ds Ireland and Otherness: James Joyce's Ulysses and Early Writings An examination of Joyce's idea of otherness as both an English that limited Irish writing and a foreignness that inhabits language and gives a nation different voices. We will study *Portrait of the Artist as a Young Man* to see how Joyce developed his idea of linguistic identity and difference; then we will go on to study the chapters of *Ulysses*, each with a different narrator, learning how to read the Bloom, Stephen Dedalus, and the allusions that allowed Joyce to remake the realist novel in a comic, self-conscious vein. *Four credit hours.* L SUCHOFF

ENVIRONMENTAL SCIENCE

Directors, Professors F. Russell Cole (Environmental Studies) and D. Whitney King (Chemistry)

The Environmental Studies Program and Department of Chemistry offer major programs in environmental science. Each program is intended to prepare students for roles as educated citizens in a world confronted with complex environmental problems as well as for positions in firms or government agencies dealing with these problems or for graduate work in related areas. The two environmental science majors, each with a different emphasis and background, stress the scientific foundation that underlies environmental disciplines. In addition to offering an environmental science major, the Environmental Studies Program offers majors in environmental policy and environmental computation and a minor, which may be elected by majors from any department or program (see "Environmental Studies Program").

Environmental Science

The interdisciplinary environmental science major provides an introduction to national and global environmental issues and the opportunity to focus on conservation biology, marine science, applied ecology, environment and human health, environmental chemistry, or environmental geology. A foundation course in environmental studies is complemented by core courses in environmental economics, biology, ecology, chemistry or physics, geology, and mathematics. Environmental science majors also complete two courses that fulfill the humans-and-the-environment requirement. The senior capstone seminar provides a hands-on approach to environmental studies research. Students complete a capstone course or independent study related to their focus area.

Chemistry/Environmental Science

Students electing this major complete all the courses required for the chemistry major. In addition, two courses are required in biology or geology, and two more in economics. Chemistry 217 (Environmental Chemistry)—which discusses the 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—is required, as is an independent study in the senior year.

Each of these environmental science majors emphasizes the scientific foundation that must underlie environmental planning and decision making. Specific requirements for each major are listed in the departmental sections of this catalogue. Colby places considerable emphasis on integrating student research into the curriculum. In addition to research opportunities in courses, independent projects, and honors projects, a limited number of research assistantships are available each summer and during the academic year that enable students to work with faculty on specific environmental research projects. Students also are encouraged to complement their work on campus with January Programs, internships, and other off-campus educational opportunities, including affiliated programs offered by the School for Field Studies, Bigelow Laboratory for Ocean Sciences, and the Ecosystem Center of the Marine Biological Laboratory in Woods Hole, Massachusetts.

ENVIRONMENTAL STUDIES

Director: *Professor F. Russell Cole*

Program Faculty: *Professor F. Russell Cole; Associate Professor Philip Nyhus; Assistant Professors Denise Bruesewitz, Gail Carlson, Loren McClenachan, and Travis Reynolds; Faculty Fellow Theresa Spezio; Teaching Assistant Abby Pearson; Research Scientists Manuel Gimond and Benjamin Neal*

Affiliated Faculty: *Professors Paul Josephson (History), Whitney King (Chemistry), James Webb (History), and W. Herbert Wilson (Biology); Associate Professor Catherine Bevier (Biology); Assistant Professors Sahan Dissanayake (Economics) and Keith Peterson (Philosophy); Visiting Assistant Professor Bruce Rueger (Geology)*

The Environmental Studies Program at Colby recently celebrated its 42nd anniversary. The program has received national recognition for developing an innovative, project-based curriculum and for challenging students to engage hands-on with environmental issues at Colby, in Maine, and around the world. From understanding the impacts of climate change to preventing biodiversity loss and unsustainable use of natural resources, environmental challenges are a national and international priority. Our students and faculty are active locally, nationally, and internationally in studying and helping to solve these challenges. The program encourages and supports student environmental initiatives and activism. Colby was one of the first colleges in the nation to achieve carbon neutrality and uses 100-percent renewable-source electricity. Colby also seeks LEED certification of all new construction and major renovations, and uses sustainably harvested wood biomass instead of oil as its primary fuel for heat and hot water, reducing fossil fuel use by approximately 90 percent. The U.S. Environmental Protection Agency, the state of Maine, and other organizations have recognized Colby for its commitment to environmental academics and sustainability. Recent examples of student-led environmental initiatives include establishing an organic garden, organizing activities to reduce carbon emissions on campus, developing a climate change action plan in the local community, raising awareness about the dangers of using hazardous chemicals in personal care products and children's toys at the state and federal levels, and reducing bottled water use on campus.

A strategic partnership between Colby and the Bigelow Laboratory for Ocean Sciences has expanded educational and research

opportunities in marine sciences for students. The partnership includes an expansion of the program's marine sciences curriculum, including Jan Plan courses taught by Bigelow research scientists, an increase in student research opportunities, a semester-long in-residence study at Bigelow beginning fall 2012, and curricular innovations that combine scientific research with economic and social policy analysis.

The Environmental Studies Program offers interdisciplinary majors in environmental policy, in environmental science, and in environmental studies-interdisciplinary computation as well as a minor that can be elected by majors in any discipline. Each major provides a broad-based course of study and prepares graduates to understand and to address the many complex environmental challenges facing society. Our science and policy curriculum benefits from our Maine location, including access to diverse natural areas and unique access to government, nonprofit, and business institutions. Our graduates are prepared to take leadership positions in businesses, nonprofits, consulting firms, educational institutions, and government agencies. Many of our graduates complete postgraduate work in environmental sciences/studies, ecology, urban/rural planning, natural resource conservation and management, law, environmental and public policy, and other related areas.

A student may elect only one of the majors offered by the Environmental Studies Program. A student cannot elect both the chemistry: environmental science concentration and the environmental studies: science concentration.

The interdisciplinary **environmental policy major** provides an extensive introduction to the study of domestic and international environmental policy. Students combine a foundation course in environmental studies with courses in environmental economics, domestic environmental policy and law, international environmental policy and politics, and courses in environmental science. Diverse electives allow students to explore topics from introductory geographic information systems (GIS) to endangered species policy to environmental and human health. Students complete the Environmental Policy Practicum capstone seminar in the senior year.

Environmental policy majors are encouraged to take Environmental Studies 118 (spring) in their first year and Environmental Studies 233 and 271 (fall) and Environmental Studies 234 (spring) in their sophomore year. Students enrolled in "The Green Cluster" who are interested in this major should enroll in Environmental Studies 118 as well as Economics 133 in the spring semester.

Students pursuing this major should elect Environmental Studies 233 and 271 (if possible) in the fall of their sophomore year. Students must complete at least one course at the 300-level or above selected from category III below. No more than one course at the 100-level may be used to fulfill category III. No requirement for the major may be taken satisfactory/unsatisfactory. AP credit can fulfill core course requirements based on exam performance and coverage. Exemption from Environmental Studies 118 is granted with an AP test score of 4 or 5, allowing advanced placement into other courses. Courses not listed below, such as those offered by some off-campus study programs, may count toward the major pending prior approval by the program director.

Requirements for the Major in Environmental Policy

I. Required Environmental Studies Core Courses

<i>Biology</i>	131 Biodiversity or 164 Evolution and Diversity
<i>Environmental Studies</i>	118 Environment and Society 271 Introduction to Ecology
<i>Economics</i>	133 Principles of Microeconomics 231 Environmental and Natural Resource Economics

II. All of the Following Courses

<i>Environmental Studies</i>	233 Environmental Policy 234 International Environmental Policy
<i>Mathematics</i>	212 Introduction to Statistical Methods <i>or</i> 231 Applied Statistics and Regression Analysis

III. Humans and the Environment (Three courses, at least two from environmental studies)

<i>Anthropology</i>	256 Land, Food, Culture, and Power
<i>Economics</i>	341 Natural Resource Economics 476 Seminar: Economics of Ecosystem Services and Biodiversity
<i>Environmental Studies</i>	126 Environmental Activism 212 Introduction to GIS and Remote Sensing (if not used to satisfy IV below) <i>or</i> 214 Introduction to GIS and Spatial Analysis (if not used to satisfy IV below) 242 Marine Conservation and Policy 265 Global Public Health 276 Exploring the Anthropocene: Human Impacts on Global Ecosystems (if not used to satisfy IV below) 319 Conservation Biology (if not used to satisfy IV below) 336 Endangered Species Conservation

	343 Environmental Change
	344 Marine Fisheries Management
	346 Global Food Policy
	347 Tropical Forests and Rural Livelihoods
	358j Ecological Field Study (if not used to satisfy IV below)
	366 Environment and Human Health (if not used to satisfy IV below)
<i>History</i>	364 Environmental and Health History in Africa
	394 Ecological History
	446 Global Health History
<i>Philosophy</i>	243 Environmental Ethics
	328 Radical Ecologies
<i>STS</i>	215 Weather, Climate, and Society
	253 Energy, Power, and the American Century, 1901-2001
	358 Climbing the Oil Peak

IV. Three of the Following Courses

<i>Biology</i>	237 Woody Plants
	257j Winter Ecology
	259j Plants of the Tropics
	334 Ornithology
	354 Marine Ecology
	452 Behavioral and Physiological Ecology
<i>Chemistry</i>	141 General Chemistry
	142 General Chemistry
	217 Environmental Chemistry
<i>Environmental Studies</i>	212 Introduction to GIS and Remote Sensing <i>or</i>
	214j Introduction to GIS and Spatial Analysis
	276 Exploring the Anthropocene: Human Impacts on Global Ecosystems
	319 Conservation Biology
	352 Advanced and Applied Ecology
	356 Aquatic Ecology
	358j Ecological Field Study
	366 Environment and Human Health
<i>Geology</i>	141 Earth and Environment <i>or</i>
	146 Deciphering Earth History
<i>Physics</i>	141 Foundations of Mechanics <i>or</i>
	143 Honors Physics
	145 Foundations of Electromagnetism and Optics

V. One of the Following Capstone Courses

<i>Environmental Studies</i>	493A Environmental Policy Practicum (international emphasis) <i>or</i>
	494B Environmental Policy Practicum (domestic emphasis)

VI. Senior Colloquia

<i>Environmental Studies</i>	401, 402 Senior Colloquium (one credit for the year)
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Environmental Studies 401 and 402 provide one credit for the senior year and typically are taken in addition to a normal four-course semester.

The interdisciplinary **environmental science major** also begins with the foundation course in environmental studies and is followed by core courses in environmental economics, biology and ecology, chemistry or physics, geology or GIS, and mathematics. Students select a focus area to explore in depth. Current focus areas include conservation biology, applied ecology, marine science, environment and human health, environmental chemistry, and environmental geology. Students can also propose well-structured alternative focus areas. The senior capstone seminar provides a hands-on approach to environmental science research. Colby's four science buildings have excellent teaching and research laboratories furnished with the necessary equipment to undertake sophisticated environmental investigations.

Environmental science majors are encouraged to enroll in Biology 163 (fall) and Environmental Studies 118 (spring) in their first year and Environmental Science 271 (fall) in their sophomore year. Students enrolled in "The Green Cluster" who are interested in this major should also enroll in Chemistry 141 in the fall; in the spring they should enroll in Chemistry 142, Environmental Studies 118, and Mathematics 121.

Majors must complete at least two courses at the 300-level or above selected from categories III and IV below. No more than one course at the 100 level may be used to fulfill category III. No requirement for the major may be taken satisfactory/unsatisfactory. AP credits can fulfill core course requirements based on exam performance and coverage. Exemption from Environmental Studies 118 is granted with an AP test score of 4 or 5, allowing advanced placement into other courses. AP credits also can provide advanced placement in focus areas, but in no case can AP credits reduce the number of required focus area courses below five. Environmental studies majors electing the science concentration should consult with the program director or the advisor for their selected focus area as early as their first year at Colby to identify any courses beyond the major requirements that may be desirable to meet their postgraduate goals, especially graduate or professional school.

Requirements for the Major in Environmental Science

I. Required Environmental Studies Core Courses

<i>Environmental Studies</i>	118 Environment and Society
	271 Introduction to Ecology
<i>Economics</i>	133 Principles of Microeconomics
	231 Environmental and Natural Resource Economics

II. Required Science and Mathematics Courses

<i>Biology</i>	164 Evolution and Diversity
<i>Chemistry</i>	141 and 142 General Chemistry <i>or</i>
	145 Honors Chemistry <i>or</i>
<i>Physics</i>	141 Foundations of Mechanics and 145 Foundations in Electromagnetism and Optics
<i>Geology</i>	141 Earth and Environment <i>or</i>
	146 Deciphering Earth History <i>or</i>
<i>Environmental Studies</i>	212 Introduction to GIS and Remote Sensing <i>or</i>
	214 Introduction to GIS and Spatial Analysis

For students electing the conservation biology, applied ecology, environment and human health, or marine science focus area:

<i>Mathematics</i>	121 Single-variable Calculus <i>and</i> either Mathematics 212 Elementary Statistics <i>or</i> 231 Applied Statistics and Regression Analysis
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For students electing the environmental geology or environmental chemistry focus area:

<i>Mathematics</i>	121 Single-variable Calculus <i>and</i> 122 Series and Multi-variable Calculus
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III. Humans and the Environment (Two courses, not taken from the same discipline unless that discipline is environmental studies)

<i>Anthropology</i>	256 Land, Food, Culture, and Power
<i>Economics</i>	341 Natural Resource Economics
	476 Seminar: Economics of Ecosystem Services and Biodiversity
<i>Environmental Studies</i>	126 Environmental Activism
	212 Introduction to GIS and Remote Sensing Studies (if not used to satisfy II above) <i>or</i>
	214 Introduction to GIS and Spatial Analysis (if not used to satisfy II above)
	233 Environmental Policy
	234 International Environmental Policy
	242 Marine Conservation and Policy
	265 Global Public Health
	276 Exploring the Anthropocene: Human Impacts on Global Ecosystems
	319 Conservation Biology
	336 Endangered Species Conservation
	344 Marine Fisheries Management
	346 Global Food Policy
	347 Tropical Forests and Rural Livelihoods
	358j Ecological Field Study
	366 Environment and Human Health
<i>History</i>	364 Environmental and Health History in Africa
	394 Ecological History

	446 Global Health History
<i>Philosophy</i>	243 Environmental Ethics 328 Radical Ecologies
<i>STS</i>	215 Weather, Climate, and Society 253 Energy, Power, and the American Century, 1901-2001 358 Climbing the Oil Peak

IV. Focus Area (Four or five courses, depending on the focus area chosen, and an additional culminating experience chosen in consultation with advisor.) The Environmental Studies Program will consider well-structured proposals for additional focus areas. Advanced Placement credits can provide advanced placement in focus areas but cannot reduce the number of required focus-area courses below four or five depending on the focus area.

A. Conservation Biology (Four courses)

<i>Environmental Studies</i>	319 Conservation Biology <i>or</i> 336 Endangered Species Conservation 352 Advanced and Applied Ecology
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Two Courses from the Following:

<i>Biology</i>	237 Woody Plants 257j Winter Ecology 259j Plants of the Tropics 334 Ornithology 354 Marine Ecology 452 Behavioral and Physiological Ecology
<i>Environmental Studies</i>	212 Introduction to GIS and Remote Sensing <i>or</i> 214 Introduction to GIS and Spatial Analysis (if not used to satisfy II above) 242 Marine Conservation and Policy 276 Exploring the Anthropocene: Human Impacts on Global Ecosystems 358j Ecological Field Study

Culminating Experience:

<i>Environmental Studies</i>	494 Problems in Environmental Science
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B. Applied Ecology (Four Courses)

<i>Environmental Studies</i>	352 Advanced and Applied Ecology 356 Aquatic Ecology
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Two Courses from the Following:

<i>Biology</i>	237 Woody Plants 257j Winter Ecology 354 Marine Ecology 452 Behavioral and Physiological Ecology
<i>Environmental Studies</i>	212 Introduction to GIS and Remote Sensing <i>or</i> 214j Introduction to GIS and Spatial Analysis (if not used to satisfy II above) 276 Exploring the Anthropocene: Human Impacts on Global Ecosystems 343 Environmental Change 358j Ecological Field Study

Culminating Experience:

<i>Environmental Studies</i>	494 Problems in Environmental Science
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C. Marine Science (Four Courses)

<i>Biology</i>	354 Marine Ecology 242 Marine Conservation and Policy <i>or</i>
<i>Environmental Studies</i>	344 Marine Fisheries Management 352 Advanced and Applied Ecology

One course from the following:

<i>Biology</i>	254 Marine Invertebrate Zoology 452 Behavioral and Physiological Ecology
<i>Chemistry</i>	217 Environmental Chemistry
<i>Environmental Studies</i>	356 Aquatic Ecology 358j Ecological Field Study

Courses offered by Bigelow Laboratory scientists may help fulfill this focus area requirement. The Bigelow Laboratory semester program will fulfill three focus area courses.

Culminating Experience:

<i>Environmental Studies</i>	494 Problems in Environmental Science
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D. Environment and Human Health (Four Courses)

<i>Environmental Studies</i>	366 Environment and Human Health
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Three Courses from the Following:

<i>Biochemistry</i>	362 Medical Biochemistry 368 Biochemistry of the Cell II
<i>Biology</i>	275 Mammalian Physiology 348 Pathogenic Bacteriology
<i>Chemistry</i>	241, 242 Organic Chemistry
<i>Environmental Studies</i>	265 Global Public Health
<i>History</i>	364 Environmental and Health History in Africa 446 Global Health History
<i>Mathematics</i>	306 Topics in Epidemiology

Culminating Experience:

<i>Environmental Studies</i>	494 Problems in Environmental Science or 491/492 Independent Study
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E. Environmental Geology (Five Courses)

<i>Geology</i>	225 Mineralogy 231 Structural Geology 251 The Record of Life on Earth 254 Principles of Geomorphology
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One Course from the Following:

<i>Geology</i>	279j Geology of Bermuda 354 Glacial and Quaternary Geology 356 Sedimentation and Stratigraphy 361 Topics in Geochemistry 372 Quaternary Paleoecology
<i>Environmental Studies</i>	358j Ecological Field Study

Culminating Experience:

<i>Environmental Studies</i>	494 Problems in Environmental Science or
<i>Geology</i>	491/492 Independent Study

F. Environmental Chemistry (Five Courses)

<i>Chemistry</i>	217 Environmental Chemistry 241, 242 Organic Chemistry 331 Chemical Methods of Analysis
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One course from the following:

<i>Biochemistry</i>	367 Biochemistry of the Cell
<i>Chemistry</i>	332 Instrumental Methods of Analysis 341 Physical Chemistry

Culminating Experience:

<i>Environmental Studies</i>	494 Problems in Environmental Science or
<i>Chemistry</i>	481/482 Special Topics in Environmental Chemistry

V. Senior Colloquium

<i>Environmental Studies</i>	401, 402 Senior Colloquium (one credit for the year)
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Environmental Studies 401 and 402 provide one credit for the senior year and typically are taken in addition to a normal four-course semester.

Students are encouraged to consider field courses offered by Colby or other approved programs such as: Biology 257j, 259j, Environmental Studies 358j, Geology 279j, and the Semester in Environmental Science at the Marine Biological Laboratory, Woods Hole. Students electing the marine science focus area are strongly encouraged to consider a semester of off-campus study through programs offered by the Bigelow Laboratory for Ocean Sciences, School for Field Studies, the Duke University Marine Laboratory, the Marine Biological Laboratory, and other approved programs. An internship or research project in the discipline is strongly recommended. Students are strongly encouraged to participate in research projects, relevant field study, or internships to complement their academic work. Limited financial assistance is available to help environmental studies majors participate in research or internship opportunities.

The major in **environmental studies—interdisciplinary computation** provides an introduction to environmental studies as a discipline as well as training in computational techniques used in environmental policy and science. Students will become familiar with quantitative tools used to investigate environmental problems, especially GIS and remote sensing. No requirement for the major may be taken satisfactory/unsatisfactory. Advanced Placement credits can fulfill core course requirements based on exam performance and coverage. Students interested in this major should try to take Computer Science 151 in their first year (fall or spring) and Computer Science 231 (fall) and 251 (spring) in their second year. Students should consult with the Environmental Studies Program director or their computer science advisor when planning their capstone independent-study project.

Requirements for the Major in Environmental Studies-Interdisciplinary Computation

I. Required Environmental Studies Core Courses

<i>Biology</i>	131 Biodiversity <i>or</i> 164 Evolution and Diversity
<i>Environmental Studies</i>	118 Environment and Society 233 Environmental Policy 234 International Environmental Policy 271 Introduction to Ecology

II. Required Environmental Studies Courses

<i>Environmental Studies</i>	212 Introduction to GIS and Remote Sensing <i>or</i> 214j Introduction to GIS and Spatial Analysis 343 Environmental Change 352 Advanced and Applied Ecology
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III. One Course Selected from the Following:

<i>Environmental Studies</i>	242 Marine Conservation and Policy 276 Exploring the Anthropocene: Human Impacts on Global Ecosystems 319 Conservation Biology 336 Endangered Species Conservation 344 Marine Fisheries Management 346 Global Food Policy 366 The Environment and Human Health
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IV. Required Computer Science Courses:

Computer Science

<i>Computer Science</i>	151 Computational Thinking 231 Data Structures and Algorithms 251 Data Analysis and Visualization 341 Systems Biology I or 361 Object-Oriented Design 365 Computer Vision
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V. Capstone Courses

<i>Environmental Studies</i>	491 or 492 Independent Study
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VI. Senior Colloquia

<i>Environmental Studies</i>	401, 402 Senior Colloquium
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Environmental Studies 401 and 402 provide one credit for the senior year and typically are taken in addition to a normal four-course semester.

Honors in Environmental Studies

Environmental studies majors with a minimum cumulative grade point average of 3.5 at the end of the January term of the junior year or with special program approval are eligible to apply for the Environmental Studies Honors Research Program. Interested students should contact a faculty sponsor during the spring semester of the junior year to discuss a project. Before the end of spring registration, students should secure a faculty sponsor for their research project. Students who are studying abroad in the spring should try to make initial contact with a potential sponsor in the spring via e-mail, but may complete their proposal in the fall at the beginning of the academic year. The student must then petition the program for permission to undertake honors work. With approval from the program, students can register for Environmental Studies 491. Students wishing to change their honors project topic must petition the program for approval of the new topic. Honors research projects will be a total of eight credits and will be conducted during the student's last two academic semesters (and may include Jan Plan). Also, students enrolled in Environmental Studies 493 or 494 may petition the program to expand their independent study for these courses into an honors project to be conducted in January and the spring semester.

Successful completion of the honors program will include an approved thesis, an oral presentation at the Colby Liberal Arts Symposium, a successful thesis defense, and the completion of the required course work for the major. The student fulfilling these requirements will graduate "With Honors in Environmental Studies." The decision whether or not the student will be approved to convert her or his seminar or independent study project to an honors project in the spring semester (or in Jan Plan and the spring semester) and continue in the Environmental Studies Honors Program by enrolling in Environmental Studies 484 will be made at the end of the first semester. In cases where requirements for honors have not been fulfilled at the end of the spring semester, Environmental Studies 484 (Honors Research) will revert to a graded Environmental Studies 492 (Independent Study).

The **environmental studies minor** is designed to introduce students to environmental issues and their ramifications in the context of the social and natural sciences. Course requirements provide flexibility, allowing students to study in areas of most interest to them. Courses not listed below, such as those offered by some off-campus study programs, may count toward the minor pending prior approval by the program director.

Requirements for the Minor in Environmental Studies

1. Environmental Studies 118
2. Either Economics 133 and 231, or Anthropology 112 and 256, or Environmental Studies 233 and 234
3. Either Biology 131 or 164, and Environmental Studies 271; or Geology 141 or 146, and one additional geology course; or Chemistry 141 and 142
4. Two courses, including one numbered 300 or above, selected from the following group(s):

Group 1: At least one course selected from the environmental studies core courses:

<i>Environmental Studies</i>	212 Introduction to GIS and Remote Sensing <i>or</i> 214 Introduction to GIS and Spatial Analysis 233 Environmental Policy 234 International Environmental Policy 242 Marine Conservation and Policy 265 Global Public Health 276 Exploring the Anthropocene: Human Impacts on Global Ecosystems 319 Conservation Biology 336 Endangered Species Conservation 343 Environmental Change 344 Marine Fisheries Management 346 Global Food Policy 347 Tropical Forests and Rural Livelihoods
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352 Advanced and Applied Ecology
 356 Aquatic Ecology
 358j Ecological Field Study
 366 Environment and Human Health

Group 2: If only one course is chosen from the environmental studies core group (Group 1), then one additional course from:

<i>Biology</i>	237 Woody Plants 257j Winter Ecology 259j Plants of the Tropics 354 Marine Ecology 452 Behavioral and Physiological Ecology
<i>Chemistry</i>	217 Environmental Chemistry
<i>Economics</i>	341 Natural Resource Economics 476 Seminar: Economics of Ecosystem Services and Biodiversity
<i>Geology</i>	254 Principles of Geomorphology
<i>Philosophy</i>	243 Environmental Ethics 328 Radical Ecologies
<i>STS</i>	215 Weather, Climate, and Society 253 Energy, Power, and the American Century, 1901-2001 358 Climbing the Oil Peak

If not used to satisfy the social science couplet:

<i>Anthropology</i>	256 Land, Food, Culture, and Power
<i>Economics</i>	231 Environmental and Resource Economics
<i>Environmental Studies</i>	233 Environmental Policy 234 International Environmental Policy

Minors also are encouraged to have a hands-on environmental activity either of an experiential nature (internship) or an academic nature (research project). In many, if not most cases, at least one of these activities may be required by one of the courses selected and satisfied automatically.

No requirement for the minor may be taken satisfactory/unsatisfactory. AP credit in a subject allows advanced placement but does not reduce the number of courses required for the minor.

Students with a major in biology, geology, or global studies considering a minor in environmental studies should consider electing a double major in biology and environmental studies, geology and environmental studies, or global studies and environmental studies because of the overlap in required courses. Interested students should discuss these possibilities with the Environmental Studies Program director.

A student cannot elect both the chemistry: environmental science concentration and the environmental studies: science concentration.

Course Offerings

ES118s Environment and Society An interdisciplinary study of human relationships with and impacts on the environment. Examination of important local, national, and global environmental issues by exploring causes and methods for investigating these pressing problems, as well as possible solutions, from scientific and public-policy perspectives. Students explore important literature and ideas in the field to complement the lectures, conduct an original, semester-long, group research project, and complete a variety of writing assignments. *Four credit hours.* COLE, MCCLLENACHAN, REYNOLDS

ES120f Losing Ground: Community Responses to Environmental Hazards An introduction to community-level environmental problems related to hazardous waste and the impacts on and responses of affected communities. Explores the concept of environmental justice and how the risk of hazardous exposures is related to race, ethnicity, class, and gender. We discuss U.S. policy debates on hazardous waste regulation and environmental injustice claims, and we consider the evidence for the inequitable distribution of environmental quality and adverse health impacts, the mechanisms for environmental and public health decision-making, and community access to informational resources and empowerment. *Four credit hours.* **W1** CARLSON

ES126f Environmental Activism An introduction to the history, theory, and practice of environmental activism, incorporating

both global and local perspectives. Students explore the social phenomena that underlay human action in the environmental arena, taking an interdisciplinary approach that encompasses history, social movement and political theory, media studies, gender studies, psychology, and first-person narratives. Goals include 1) developing effective skills in critical reading, analysis, and communication; 2) developing an appreciation for the vastness and diversity of human responses to environmental challenges; and 3) providing the opportunity for students to apply their emerging leadership and organizing skills to the design of a student environmental group. Part of the three-course Integrated Studies 126, "The Green Cluster." *Prerequisite:* Concurrent enrollment in Biology 131 (lab section B) and English 126. (Elect IS126.) *Four credit hours.* **S,W1** CARLSON

ES131f Biodiversity Listed as Biology 131. *Four credit hours.* **N,Lb** BEVER

[ES141] Campus Sustainability: Methods to Make the Case for Change Presents the theory and practice of campus sustainability through lectures, discussions, presentations, guest speakers, and field trips. Students will learn the environmental issues facing campus stakeholders, quantify their environmental impacts, and be introduced to effective mitigation strategies. Concepts include integrated design techniques, considerations for site and landscape, passive design techniques, water efficiency, materials and resource mitigation, occupant health and engagement programs, energy efficiency opportunities, construction best practices, and commissioning. Students will undertake group projects using Colby data. *Three credit hours.*

ES143j Sustainable and Socially Responsible Business Provides students with a broad overview of sustainable and socially-responsible business principles and the ways in which companies have incorporated them into their organizations. Through a series of readings, lectures, guest speakers, and real-world case studies, students will be exposed to the issues and opportunities facing "green businesses". Includes small group and individual presentations. Previously offered as Environmental Studies 197A (January 2013). *Three credit hours.* PENNEY

ES151j Landscapes and Meaning: An Exploration of Environmental Writing An exploration of the works of selected 20th-century environmental writers and how their life experiences contribute to a sense of connection with and action on behalf of the Earth. Through readings, film, writing assignments, group discussion, and journaling, students will develop critical thinking and communication skills while reflecting on their own personal relationship with nature. Previously offered as Environmental Studies 197C (January 2010, 2013). *Three credit hours.* **L** MACKENZIE

ES212s Introduction to GIS and Remote Sensing A comprehensive theoretical and practical introduction to the fundamental principles of geographic information systems and remote sensing digital image processing. Topics include data sources and models, map scales and projections, spatial analysis, elementary satellite image interpretation and manipulation, and global positioning systems. Current issues and applications of GIS, with emphasis on environmental topics. Students develop and carry out independent projects using GIS. *Prerequisite:* Sophomore or higher standing. Not open to students who have completed Environmental Studies 214. *Four credit hours.* GIMOND

ES214f Introduction to GIS and Spatial Analysis An introduction to geographic information systems' (GIS) data management and visualization capabilities as well as the theory and application of spatial analysis techniques. Topics covered include spatial data representation in a GIS, effective map making, coordinate systems and projections, exploratory spatial data analysis (ESDA), and spatial statistical analysis. *Prerequisite:* Sophomore or higher standing. Not open to students who have completed Environmental Studies 212. *Four credit hours.* GIMOND

[ES214J] Introduction to GIS and Spatial Analysis An introduction to geographic information systems' (GIS) data management and visualization capabilities as well as the theory and application of spatial analysis techniques. Topics covered include spatial data representation in a GIS, effective map making, coordinate systems and projections, exploratory spatial data analysis (ESDA), and spatial statistical analysis. *Prerequisite:* Sophomore or higher standing. Not open to students who have completed Environmental Studies 212. *Three credit hours.*

[ES215] Weather, Climate, and Society Listed as Science, Technology, and Society 215. *Four credit hours.* **N**

[ES217] Environmental Chemistry Listed as Chemistry 217. *Three credit hours.*

ES231s Environmental and Natural Resource Economics Listed as Economics 231. *Three credit hours.* DISSANAYAKE

ES233fs Environmental Policy A comprehensive and interdisciplinary introduction to the process and challenges of developing, implementing, and evaluating environmental policy. The roles of costs and benefits, uncertainty and risks, science and technology, and attitudes and ethics are explored. Historic and contemporary case studies are used to examine major institutions and actors, laws and regulations, incentives and enforcement approaches, and their role in addressing our nation's most pressing environmental problems. Students complete a semester-long research assignment. *Prerequisite:* Environmental Studies 118. *Four credit hours.* SPEZIO

ES234s International Environmental Policy Examines how communities, nations, and international organizations govern the use of natural resources including water, land, forests, fisheries, and the global climate. Through case studies and international environmental treaty analyses we will develop an understanding of global environmental issues, explore complementarities and tradeoffs among local, national, and global approaches to environmental governance, highlight the environmental justice implications of various resource management regimes, and assess the effectiveness of policies to address

major environmental problems. *Prerequisite:* Environmental Studies 118. *Four credit hours.* I REYNOLDS

ES242s Marine Conservation and Policy Human activities and effects, including overfishing, water pollution, climate change, and benthic habitat destruction, have all had major impacts on ocean ecosystems. Through lectures and discussions we will investigate global, regional, and local threats to marine biodiversity and ecosystem function. Potential conservation solutions will be considered. Independent and group research projects will investigate the science and policy of marine conservation issues and will evaluate and synthesize information from scientific literature, popular media, and online discussions. Previously listed as Environmental Studies 342. *Prerequisite:* Environmental Studies 118 and sophomore or higher standing. *Four credit hours.* MCCLLENACHAN

ES243f Environmental Ethics Listed as Philosophy 243. *Four credit hours.* ELMORE

[ES259] Plants of the Tropics Listed as Biology 259. *Three credit hours.*

ES265j Global Public Health An introduction to the principles and measures of global health, disease burdens, and environmental determinants of health, including poverty, climate change, pollution, population, violence, and lack of safe food, clean water, and fuels. We will also study international health institutions, key actors, and environmental regimes for the regulation of environmental health hazards. Through small-group presentations and discussion we will explore global case studies that highlight the complex relationship between human health and the environment. *Prerequisite:* Environmental Studies 118 or one course in the natural sciences. *Three credit hours.* I CARLSON

ES271f Introduction to Ecology An introduction to ecological concepts applied to individuals, populations, and communities in terrestrial, freshwater, and marine environments. Concepts and theories related to adaptations of organisms to their physical environment, patterns of plant and animal diversity, population dynamics and interactions, and ecosystem structure and function are examined and applied to current environmental problems. Ecological sampling techniques are practiced during field trips taken to local terrestrial, freshwater, and marine ecosystems. Identification of common plant and animal species, and investigation of ecological relationships are emphasized. A research assignment helps enhance writing skills. *Prerequisite:* Environmental Studies 118 or Biology 131 or 164. Not open to students who have completed Biology 263. *Four credit hours.* N,Lb COLE

ES276s Exploring the Anthropocene: Human Impacts on Global Ecosystems Human activities are changing the environment in ways so numerous and extensive that some scientists have proposed we are in a new geological epoch, the "Anthropocene," defined by human impacts on the landscape and ecosystem function. Through lectures, discussions, group projects, and laboratory exercises students will examine key elements of global ecosystem function, investigate how human activities have altered global ecosystems since the Industrial Revolution, and critically assess scientific evidence for anthropogenic changes. Global climate change will be investigated and placed in a broader context of anthropogenic change. We will also examine the concepts of tipping points to navigate future life in the Anthropocene. *Prerequisite:* Environmental Studies 118 and one college-level science course. *Four credit hours.* N,Lb BRUESEWITZ

[ES279] Geology of Bermuda Listed as Geology 279. *Three credit hours.*

ES287j Impact of Climate Change on Ocean Life The concentration of carbon dioxide (CO₂) in the atmosphere recently passed 400 parts per million, the highest level seen in three million years. Increased CO₂ is causing the oceans to warm and become more acidic. We will explore the connections, past and present, between the oceans and climate and will examine how current changes impact marine life. Emphasis is on microbial ecosystems that form the base of marine food webs and have a major impact on ocean health. Students will explore the primary scientific literature and work on written and oral presentation skills. Can be repeated once for additional credit. *Prerequisite:* One semester of mathematics or science; a biology course is highly recommended. *Three credit hours.* N EMERSON

ES297f Energy and Sustainability Closely related issues involving energy, the environment, and the economy greatly affect our world. Society faces far-reaching choices on these issues, which will shape our future, including the types of energy we use, the quality of the environment in which we live, and the global economy in which we work. We will examine these choices and their long-term implications. Through lectures, discussions, and writing assignments, students will be provided tools necessary to analyze the current and emerging global energy industry and to analyze challenges to the creation of a sustainable energy future. *Prerequisite:* Environmental Studies 118. *Four credit hours.* SPEZIO

ES297Bj Diversity and Function of Life in Marine Ecosystems Listed as Biology 297. *Three credit hours.* N COUNTWAY

[ES319] Conservation Biology Concepts of conservation biology are examined in detail. Topics include patterns of diversity and rarity, sensitive habitats, extinction, captive propagation, preserve design, and reclamation of degraded or destroyed ecosystems. Interdisciplinary solutions to the challenges of protecting, maintaining, and restoring biological diversity are discussed. Offered in alternate years. *Prerequisite:* Environmental Studies 118 or 271, and sophomore or higher standing. *Four credit hours.*

[ES328] Radical Ecologies Listed as Philosophy 328. *Four credit hours.*

ES331f Natural Resource Economics Listed as Economics 341. *Prerequisite:* Economics 223. *Four credit hours.* DISSANAYAKE

[ES336] Endangered Species Conservation An interdisciplinary course that uses biological, social, and policy approaches to understand the causes of and solutions to species extinction. Students are introduced to influential literature and ideas in endangered species conservation, policy, and management, including strategies for and constraints to implementing effective conservation. Case studies, assignments, and a research paper allow students to explore the role of interdisciplinary research and analyses and to ask questions, think critically, and communicate effectively about these issues. *Prerequisite:* Environmental Studies 118 or 271, and sophomore or higher standing. *Four credit hours.*

ES343f Environmental Change Investigation of the relationship between past environmental history and current ecosystem condition. Landscape change and ecological restoration across a range of Maine ecosystems including forests, wetlands, rivers, marine environments, with an emphasis on ecological theory. The impacts of past and present human activities including forestry, fishing, and industrial and residential development. Students will read scientific literature, practice ecological field and laboratory methods, enhance data analysis and writing skills, and complete a research project designed to evaluate environmental change and recovery potential in a local landscape, riverscape, or seascape. Lecture and laboratory. *Prerequisite:* Environmental Studies 271 and sophomore or higher standing. *Four credit hours.* MCCLLENACHAN

[ES344] Marine Fisheries Management Managing marine fisheries represents one of the most significant challenges in the conservation of global resources. We explore political, cultural, and ecological factors essential for successful management. Through lectures, discussions, and readings, students become familiar with global fisheries issues, including high seas management, initiatives to protect the food security and biodiversity of tropical island nations, and management of marine and anadromous fish in the United States. Through a field-based, group research project, students will investigate challenges involved with managing marine fish populations in Maine. *Prerequisite:* Environmental Studies 118 or 271, and sophomore or higher standing. *Four credit hours.*

[ES346] Global Food Policy Examines the emergence and development of global food systems and food policies starting with the earliest agricultural societies and continuing to the present day. We explore the economic, nutritional, and environmental justice implications of agricultural systems and critically analyze the intended and actual outcomes of food policies for nations and agricultural communities. Case studies, films, and independent research further highlight the role of food and food policy in degrading the environment, exacerbating ethnic tensions and social inequities, and even spurring conflict. *Prerequisite:* Environmental Studies 118 and sophomore or higher standing. *Four credit hours.* I

[ES347] Tropical Forests and Rural Livelihoods Examines the environmental, economic, and cultural roles of tropical forests in rural communities. Lectures and readings underscore the environmental justice implications of global, national, and local forest management regimes, emphasizing benefits and costs of deforestation, afforestation, reforestation, restoration, and conservation in tropical regions. Through case studies and independent research we critically analyze current tropical forest issues, contrasting traditional, private-sector, state-based, and international approaches to contemporary forest management problems. *Prerequisite:* Environmental Studies 118 and sophomore or higher standing. *Four credit hours.* I

ES352s Advanced and Applied Ecology An examination of theoretical and applied aspects of ecology at the organism, population, and community levels. Study of environmental tolerance and adaptation of plant and animal species; population dynamics; population competition, trophic relationships, and coevolutionary interactions; community structure and organization; succession; and biogeography. Emphasis on the relevance of theory and concepts to solving environmental problems. Laboratory exercises explore principles of experimental design and ecological sampling techniques. A research assignment helps to enhance writing and presentation skills. Lecture and laboratory. *Prerequisite:* Environmental Studies 271 and sophomore or higher standing. *Four credit hours.* COLE

[ES354] Marine Ecology Listed as Biology 354. *Three or four credit hours.*

ES356s Aquatic Ecology Concern over the impact of human activities on aquatic communities and ecosystems has brought aquatic ecology to the forefront of public attention. Through lecture, discussion, writing assignments, and laboratory work, students will explore the major ecological principles that influence the physical, chemical, and biological organization of aquatic ecosystems. Experimental approaches and sampling techniques used by limnologists will be employed in local lakes, streams, and rivers, as well as in the laboratory to investigate topics of concern in freshwater ecosystems, including eutrophication, pollution, land use change, invasive species, and the impact of climate change. *Prerequisite:* Environmental Studies 271, and sophomore or higher standing. *Four credit hours.* BRUESEWITZ

ES358j Ecological Field Study in Belize This field course emphasizes the biological diversity and ecological relationships between the flora and fauna of selected tropical ecosystems in Belize. Students will conduct qualitative and quantitative field investigations to study coral reef and tropical rainforest ecology and the environmental challenges. They will learn to identify indigenous flora and vertebrate fauna, and explore the culture and environmental ethic of Kekchi and Mayan Indian villages. Lectures, films, and discussions of assigned readings during the first week will be followed by a 20-day field trip. Cost to be determined. Financial aid is available for qualified students. *Prerequisite:* Biology 131 or 164 or Environmental Studies 118, and permission of the instructor. *Prerequisite:* Environmental Studies 118, or Biology 131 or 164, and permission of the

instructor. *Three credit hours.* COLE, RUEGER

ES366s The Environment and Human Health How human health is affected by physical, chemical, biological, and social environments; how we use science to measure effects of these determinants at the level of cell, tissue, individual, and population; how we assess these determinants to make regulatory decisions. Topics include introductions to toxicology, epidemiology, and risk assessment; health effects of pollution, synthetic chemicals, consumer products, climate change, and the built environment; the etiology of health outcomes including cancer, obesity, endocrine disruption, and respiratory diseases. Students use primary scientific literature for independent research and, when appropriate, engage in environmental health policy debates in Congress and/or the Maine legislature. *Prerequisite:* Environmental Studies 118 or 126, and sophomore or higher standing. *Four credit hours.* N CARLSON

ES378f Geologic Environments in the Marine Realm Listed as Geology 378. *Three credit hours.* N RUEGER

ES398As Energy Policy since the Industrial Revolution Coal, oil, and natural gas continue to be the primary sources of energy in the United States and the world. These three fossil fuels have dominated domestic and foreign policy decisions since the rise of coal in the United Kingdom. Through lectures and discussions we will explore U.S. energy policy, including the federal government's and the American public's conflicted relationship with renewable and non-fossil fuel energy sources. Students will examine, evaluate, and analyze actions and decisions of the federal government, industry, and nongovernmental organizations as they relate to energy and the environment. *Prerequisite:* Environmental Studies 118. *Four credit hours.* SPEZIO

ES398Bs Environmental History and Issues Through Film Film is an important medium for educating the public about environmental issues and human impacts on the environment. Movies can directly reveal environmental themes (*Day After Tomorrow*) or can situate the film in a particular time period without directly addressing the environmental theme (*Chinatown*). Through lectures, discussions, and films, students will explore how filmgoers are introduced to environmental issues and history. Students will also examine what these films reveal about public perceptions of the environment at the time the films were released. *Prerequisite:* Environmental Studies 118. *Four credit hours.* SPEZIO

ES401f, 402s Environmental Studies Colloquium Attendance at selected program colloquia during the fall and spring semesters; written reflections to be submitted. Required of all senior environmental studies majors. Typically taken in addition to a normal four-course semester. *One credit hour for the year.* *Prerequisite:* Senior standing in environmental studies. COLE

ES476s Seminar: Economics of Ecosystem Services and Biodiversity Listed as Economics 476. *Four credit hours.* DISSANAYAKE

ES484s Honors in Environmental Studies Majors approved for admission into the Environmental Studies Honors Program may elect this for the January Program or the spring semester. Requires research conducted under the guidance of a faculty member and focused on an approved topic leading to the writing of a thesis. A maximum of eight credits (including Environmental Studies 491 in the fall semester) may be earned in honors work. Upon successful completion of the thesis, an oral presentation, and all requirements for the major, the student will graduate "With Honors in Environmental Studies." *Prerequisite:* Senior standing and a 3.50 grade point average in the major at the end of the junior year or permission of the program. *One to four credit hours.* FACULTY

ES491f, 492s Independent Study Independent study devoted to a topic chosen by the student with the approval of the program committee. *Prerequisite:* Junior or senior standing as an environmental studies major or minor. *One to four credit hours.* FACULTY

ES493f Environmental Policy Practicum An in-depth analysis of current issues and policies affecting the environment. Students work individually and collaboratively on a project with a common theme and are assigned unique roles as researchers, editors, and technical coordinators. Reading and discussion of primary literature is augmented with invited speakers, field trips, and student presentations. Section A has an international emphasis while section B focuses on domestic issues. *Prerequisite:* Environmental Studies 233 (for domestic emphasis) or 234 (for international emphasis), and senior standing as an environmental studies policy major. *Four credit hours.* MCCLENACHAN, REYNOLDS

ES494f Problems in Environmental Science Causes of and solutions to selected environmental problems are investigated through lectures, laboratory and fieldwork, discussions, and guest presentations. Focuses on completion of a group research project with methods used by private consulting firms and governmental agencies to investigate aquatic environmental problems such as eutrophication or the spread of invasive species. Research results are presented in a public forum at the end of the semester. Civic engagement component provides useful information to the community and the state, and gives students experience interacting with interested stakeholders. Skill development includes research, communication (both oral and written), and collaborative work skills. *Prerequisite:* Environmental Studies 271 and senior standing as an environmental science major. *Five credit hours.* BRUESEWITZ

FRENCH

In the Department of French and Italian.

Chair, Professor Bénédicte Mauguière (French)

Professors Arthur Greenspan, Bénédicte Mauguière, and Adrianna Paliyenko; Assistant Professors Audrey Brunetaux, Valérie Dionne, Aurore Mroz, and Mouhamédoul Niang; Language Assistant Maxime Bizet

Unless otherwise specified, all courses are conducted in French.

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 SAT Subject test in the language or take the placement test during orientation.

The major in French studies promotes the acquisition of superior language skills while offering an opportunity to explore the richness of French and Francophone literatures and cultures. Emphasis is placed on developing the critical and analytical skills that enhance the appreciation of various forms of cultural production and on broadening and deepening students' understanding of values foreign to their own.

Requirements for the Major in French Studies

Students must successfully complete a minimum of 10* required courses in French, beginning at the 200 level, including French 231, 493, and two courses selected from 232, 233, 236, 238, 243, and 252. The required courses completed on campus or abroad must include:

- one course focused on early modern France (pre-1800; such as French 232, 332, 397)
- and one course focused on the Francophone world (such as French 236, 238, 351, 361, 370 etc.)

One course conducted in English in departments such as Art, Government, and History, in which the principal focus is France or Francophone countries, may be counted toward the major; it must be approved in advance. Majors must take at least one course in the department each semester. For students returning from foreign study, these courses must be numbered 300 or higher. Majors are required to spend at least one semester studying in a French-speaking country and are strongly encouraged to spend a full academic year. Three semester courses of transfer credit may be counted toward the major for a semester of study away from Colby, a maximum of five for a year.

The point scale for retention of the major is based on all French courses numbered above 127. No major requirement may be taken satisfactory/unsatisfactory.

* Potential majors, and especially students beginning their French studies at the 100 level, should consult the department chair during their first year to determine the appropriate sequence and discuss the possibility of reducing the overall number of courses required from 10 to 9 for those beginning the major in the language sequence French 125-127.

Honors in French

French studies majors with a 3.5 average or higher in the major may apply to do a senior honors thesis. The grades in all French courses taken in the major, either on campus or abroad (on a Colby or a non-Colby program), will be included in determining the average.

Formal application must be received by April 10 (in the spring of the junior year) or Sept. 10 (in the fall of the senior year).

Students who successfully complete the honors thesis, including the oral defense, will graduate "With Honors in French."

Course Offerings

FR120f Critical Thinking Across Cultures The ability to communicate the complexity of one's critical thoughts in writing is crucial to academic debates. While exploring questions of interculturality, students will practice their written English through weekly assignments and the completion of three critical writing projects. They will also engage in discussion about topics such as how to arbitrate cultural viewpoints, the different purposes and functions of writing, and the intercultural variations in producing an argument. *Four credit hours. W1, I MROZ*

FR125fs French I First in a sequence that develops communication skills in a careful progression over three semesters. In addition to working on the four traditional skills of language acquisition—speaking, comprehension, reading, and writing—students will be introduced to the cultural contexts of the Francophone world. Use of audio and videotaped material is an integral and required part of classwork. Students are placed in the appropriate level by their score on the College Board French SAT Subject test, a placement test during fall orientation, or through consultation with a member of the faculty in French. *Four credit hours. MROZ*

FR126fs French II Strengthens and expands the four language skills introduced and practiced in French 125 by offering a learning environment conducive to the practice and development of writing, reading, listening, and oral performance. As language practice is closely tied to cultural understanding, features a number of authentic texts and contexts that foster linguistic competence while highlighting the diversified cultural contribution of the French and Francophone world. Develops critical thinking vis-a-vis language and culture through listening, reading, speaking, and writing, while attaining an appropriate level of fluency in all four skills and improving cultural literacy. *Four credit hours. BRUNETAU, DIONNE*

FR127fs French III The last of the required language sequence (French 125-127) that develops communication skills in a careful progression over three semesters. In addition to working on the four traditional skills of speaking, comprehension, reading, and writing, students are encouraged to build their personal and cultural knowledge and to develop their critical-thinking skills through language learning. Students are placed in the appropriate level by their score on the College Board French SAT Subject test, a placement test during fall orientation, or through consultation with a member of the French faculty. *Four credit hours.* GREENSPAN, GUILLOIS, NIANG

FR127Jj French III (Paris) The last of the required language sequence (French 125-127) that develops communication skills in a careful progression over three semesters. In addition to working on the four traditional skills of speaking, comprehension, reading, and writing, students are encouraged to build their personal and cultural knowledge and to develop their critical-thinking skills through language learning. As students move towards greater fluency in French, they begin to do analytical work in the language. Students are also expected to adapt to an immersion environment. Estimated cost: \$3,030. *Prerequisite:* French 126 or equivalent. *Three credit hours.* DAVIES

FR128fs French IV: Reading in Cultural Contexts Builds reading skills and broadens cultural background through a wide variety of readings in French. Emphasis is on the texts and contexts of culture, whether in France, Quebec, or other Francophone areas such as Africa and the Caribbean. Continuing work in improving oral and written skills. *Prerequisite:* French 127. *Four credit hours.* L DIONNE, MAUGUIERE

FR131s Conversation and Composition Designed specifically for students wishing to develop oral skills and to acquire an extensive modern vocabulary, with additional practice in writing short compositions. Preparation for further study of French. It will also improve students' reading skills while fostering their understanding of French culture and society. Through the exploration of a French contemporary novel and of French films, students acquire the skills to critique and interpret while engaging in active thinking. *Prerequisite:* French 127 or a score of 60 on the College Board French SAT Subject Test or its equivalent on the placement test. *Four credit hours.* MAUGUIERE

[FR223] French Theater Workshop Designed to develop oral skills and in-depth knowledge of a French play that will be interpreted and performed as a final project. In addition to working on traditional language skills—speaking, comprehension, and reading—students will be introduced to French theater. Weekly sessions include drama performance, pronunciation, and oral practice. Conducted entirely in French. *Prerequisite:* French 128 or French 131. *Two credit hours.*

FR231fs Advanced Grammar and Composition Provides a comprehensive overview of French grammar through presentations of the overall structure and frequent practice in writing. Required of majors and open to others wishing to improve their written expression in French. *Prerequisite:* French 128, 131, or 211D. *Four credit hours.* BRUNETAU, GREENSPAN

FR232f Cultural History of France Examination of the major historical figures, events, and movements in the cultural history of France from its origins in prehistory to the Dreyfus Affair, with emphasis on written documents such as laws, manifestos, letters, and literary texts, and on such visual documents as maps, monuments, paintings, symbols, film, and photography. Continued development of the ability to read, speak, and write in French, while also enhancing analytical skills. *Prerequisite:* French 128 or 131. *Four credit hours.* H DIONNE

FR233s Contemporary France Explores different aspects of contemporary French culture through film, pop culture, and the media. Provides grounding in social, political, cultural, and economic aspects of today's France. Focuses on themes such as immigration, politics, religion, education, family, international relations, and daily life. Engages students in active thinking through debates and discussions, developing both their critical and analytical skills. *Prerequisite:* French 128, 131, 211D, or 232. *Four credit hours.* BRUNETAU

FR234fs Intensive Spoken French Exclusively for French majors or students preparing for study in a French-speaking country. Weekly practice in oral French conducted by the French language assistant under the direction of a faculty member. May be repeated once for credit. Nongraded. *Prerequisite:* Acceptance in a study-abroad program in a French-speaking country. *One credit hour.* BIZET

FR236s Introduction to the Francophone World: The Americas The colonial and postcolonial French cultural legacy as it spread across North America among ethno-cultural groups in Quebec, Acadia, Maine, Manitoba, Ontario, and Louisiana. The cultural connection between Louisiana, Haïti, French Guiana and contemporary Francophone migrant literature is also examined. The course focuses on issues of cultural encounter, the concept of emerging literature, oral culture, linguistic identity and cultural survival, nationalism, history and mythology, race, gender, and diasporic cultural development. *Prerequisite:* French 128, 131, 211D, or 231. *Four credit hours.* I MAUGUIERE

[FR237] Francophone African Cinema An introduction to major sub-Saharan Francophone filmmakers and their engagement with certain aspects of African history and cultural practices. Students will discuss and write about the films and the issues they deal with. Supplemental readings will be provided to contextualize the films. *Prerequisite:* French 128 or 131. *Four credit hours.* I

FR238f Introduction to the Francophone World: Africa What does the term "Francophone" mean? Is it free from polemics? What is its history? Introduction to Africa from the 19th to the 21st century surveys many of the multifaceted cultural identities

and histories of the former French-speaking colonies on the continent. Topics include colonization, politics, gender, language, the fight for independence, modernity and tradition, and the major literary movements in Francophone Africa. Course materials will include film, music, art, folktales, poetry, maps, newspaper articles, literary works, excerpts from scholarly texts, and films. *Prerequisite:* French 128 or 131. *Four credit hours.* I NIANG

[FR243] French Phonetics and Pronunciation One of the main objectives of the French studies major is mastery of near-native pronunciation. Students are given the opportunity to perfect their pronunciation of French vowels and consonants. Through the use of the International Phonetic Alphabet and the study of correlations between written and spoken language, students also learn correct syllabification, rhythm, and intonation in French. *Prerequisite:* French 128 or 131. *Four credit hours.*

[FR245] Translation Workshop Introduction to translation from French into English (*version*) and from English into French (*thème*) using literary texts selected from 20th-century and contemporary Francophone authors. Students will discover new writers and will improve their reading, speaking, and writing skills through close examination of the differences between English and French. Nongraded. *Prerequisite:* French 231. *One credit hour.*

[FR252] Provocative Texts: Engaging the World Centering on major themes in culture, an analysis of the ways in which different kinds of texts endeavor to set into play important issues and conflicting values. Significant writing and analysis of the means by which written and visual texts—including short stories and novels, theater, poetry, essays, and film—"speak." *Prerequisite:* French 128 or 131. *Four credit hours.* L, I

[FR332] Voices of Dissent in Early Modern France An introduction to free-thinkers, libertines, and also the "Querelle des femmes." We shall consider great thinkers and provocative writers like Montaigne, Molière, Diderot, and Sade, who challenged religious and social norms in search of a more just society. Through close reading of texts, and discussion of their historical and cultural context, from the wars of religion to the French revolution, we will study how the writers dissimulate their controversial opinions, while advocating *liberté de pensée* in the face of fanaticism and dogmatic thinking. Concludes with Laclos's great book *Dangerous Liaisons*. *Prerequisite:* French 231 and at least one other 200-level course, preferably two. *Four credit hours.* L

[FR343] Decoding French and Francophone News Further develops students' cultural awareness of the French and Francophone world via the study of contemporary news events that are representative of different cultural perspectives. Students will acquire the specific vocabulary, linguistic registers, and discursive structures of news and media in French and will thus be able to discuss key cultural issues. *Prerequisite:* French 231 and at least one other 200-level course, preferably two. *Four credit hours.*

FR345s French Translation This hands-on, project-based, and reflective course is intended to provide advanced students of French with translation method and practice for a variety of English to French (*thèmes*) and French to English (*versions*) texts; to sensitize them to the various styles, intricacies, and nuances particular to both languages; and to develop an awareness of the issues arising in passing from one language to the other accurately and idiomatically, as well as strategies for overcoming these issues, including an exploration of computer-mediated translation techniques. *Prerequisite:* French 231 and at least one other 200-level course, preferably two. *Four credit hours.* MROZ

[FR351] Minority Issues and Social Change in Francophone North America Analysis of cultural productions from Quebec and Francophone America, focusing on issues of identity, language, immigration and nationalism as seen in contemporary fiction, poetry, theater, and film. *Prerequisite:* French 231 and at least one other 200-level course, preferably two. *Four credit hours.* L, I

[FR354] Parisian Encounters: Great Loves, Grand Passions An examination of the legacies of famous couples in 19th-century French history, privileging male genius in a fashion that reveals the sexual and racial selection of genius and exposes the weight of prejudice against creative women in French cultural history. We shall consider the impact of "great" couples during the long 19th century (1789-1914) and in our day, mapping and interrogating their legacies across a broad sweep of (colonial) history, the arts, letters, and science. *Prerequisite:* French 231 and at least one other 200-level course, preferably two. *Four credit hours.* H, I

[FR356] Public and Private Life in 19th-Century France Competing artistic and literary representations of public and private life in 19th-century France provide the framework for a retrospective exploration of the century as it was portrayed, and at the same time challenged, by the creative minds it produced. Through interdisciplinary works on collective memory, students study in depth the richly textured 19th century and gain skills in cultural analysis. Topics range from the *mal du siècle* to the *fin-de-siècle*, the sacred to the profane, the domestic to the commercial, the personal to the political, and the native to the foreign. *Prerequisite:* French 231 and at least one other 200-level course, preferably two. *Four credit hours.* L, I

[FR358] Passionate Discontent: The 19th-Century Epidemic Troubled by epidemic revolution and social instability, the 19th century in France generated a culture of malaise and a fascinating exchange of ideas among medicine, art, and literature. Our study of celebrated figures of disease—the anxious René, deluded Emma Bovary, and degenerate Thérèse Raquin among them—reveals how passionate discontent, which was traditionally associated with the genius of male Romantics, became a "female" malady and in turn a sign of racial degeneration. Topics include the gendering of diseases (such as neurasthenia and hysteria), class differences, and the "disease" of race. Non-French majors may write papers and examinations in English.

Prerequisite: French 231 and at least one other 200-level course, preferably two. *Four credit hours.* L

FR361f Creolization, Culture, and Society in the Indian Ocean Islands Explores issues of race, gender, identity, diversity, cultural contact, and conflict in Indian Ocean island cultures and literatures written in French through selected writings from Mauritius, Madagascar, Reunion, the Seychelles, and the Comoros. We will examine the complex social, cultural and historical context of the region with an interdisciplinary perspective. Topics include slavery, "marronage", cultural hybridity, "métissage," "coolitude," and the development of colonial and postcolonial identities and subjectivities. Students will develop their presentation and writing skills through the production of critical essays and research projects. *Prerequisite:* French 231 and at least one other 200-level course, preferably two. *Four credit hours.* I MAUGUIERE

[FR370] Gender, Body, Space: Postcolonial Space in Francophone Africa The transition from the colonial to the postcolonial in Francophone Africa changed how post-independence writers and filmmakers engage with space. These writers and filmmakers treat family and collective anthropological spaces in conjunction with the body and/or self. Through analysis of novels, short stories, essays, and films from the 20th and 21st centuries, along with postcolonial concepts of hybridity, resistance, and the subaltern, we examine the politics and praxis of the body in space as it relates to gender, age, identity, ritualized performance, and belief systems. *Prerequisite:* French 231 and at least one other 200-level course, preferably two. *Four credit hours.* I

[FR373] Writing of Place: Migration, Nationalism, and Memory An exploration of themes of migration, nationalism, and memory through fictional works by authors from the Maghreb and sub-Saharan Francophone Africa living on the continent or in France. Focus is on the migrant experience and its impact on the writing and perception of place, as well as the advent of the nation in the 1960s and the nationalist discourse that serves as its backbone. The narrative of place will be emphasized along with the recent memorializing of the Rwandan genocide. Readings supplemented by theoretical works and films. Students will expand their knowledge and practice of French as it relates to postcolonial Francophone Africa. *Prerequisite:* French 231 and at least one other 200-level course, preferably two. *Four credit hours.* H, I

[FR376] Shadows of the Past: Remembering Vichy France and the Holocaust The Holocaust and the Nazi occupation left an indelible mark on the French national psyche. This interdisciplinary course explores how writers, filmmakers, and artists represent the Holocaust. Through discussions, presentations, and written assignments, students acquire the skills to critique and interpret historical documents, Holocaust memoirs, and films. They develop and improve their language skills while deepening their understanding of French history and culture. Meetings with Holocaust survivors and visits to Holocaust memorials complement the course material and engage students in active thinking. *Prerequisite:* French 231 and at least one other 200-level course, preferably two. *Four credit hours.* L, I

[FR378] French Revolution: Liberty, Equality, Fraternity, or Death The French Revolution ushered in the modern world through the concepts of freedom, equality, and fraternity. We will hone critical skills by analyzing the development of those concepts during the Enlightenment, focusing especially on the questions of natural (human) rights and tolerance in Voltaire, Rousseau, Montesquieu, Beaumarchais, and Condorcet. We will hone communication skills while examining the consequences of those concepts, interrogating the justification for revolutionary terror, discussing whether the French Revolution was a success or a failure, and considering controversial figures like Marie-Antoinette, Robespierre, and Marat. *Prerequisite:* French 231 and at least one other 200-level course, preferably two. *Four credit hours.* H

FR398As Love, Sex, Metamorphosis From troubadours in the Middle Ages to today's writers, popular hip-hop artists and performers often have sung the joys and pains of love and sex. Through a close analysis of literary texts, films, and pop-culture productions, we will explore the transformative power of love and sex. Discussions and debates will be informed by theoretical readings and supplementary material through which students will develop their critical and analytical skills. *Prerequisite:* French 231 and at least one other 200-level course, preferably two. *Four credit hours.* L BRUNETAX

FR398Bs World War II in Film and Fiction A study of the key episodes of World War II in France—the Occupation, French collaboration, the Resistance, the Holocaust, the aftermath—and the moral issues they generated. All works in French; films with English subtitles. *Prerequisite:* French 231 and at least one other 200-level course. *Four credit hours.* L GREENSPAN

FR483f, 484s Senior Honors Thesis The senior honors thesis counts as one of the 10 courses required for the major. The thesis, written in French, is to be a substantial study of a carefully defined topic, supported by critical sources. *Prerequisite:* A 3.5 or higher major average at the end of the junior year and permission of the department. *Three credit hours.* FACULTY

FR491f, 492s 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

FR493Af Satire, Sedition, and Censorship in Early Modern France Satire and caricature use words and images to unmask and reveal sensitive problems in society. This class will focus on mockery and censorship in the literature and prints of early modern France. We will investigate how words and images alike manifest implicit and explicit responses to the threat of censorship. As a central feature of the course, students will conduct a semester-long research project creating a website that either draws on banned books and plays from Rabelais, Moliere, La Fontaine, and Voltaire, or analyzes caricatural prints of the period. *Prerequisite:* Senior standing as a French studies major and permission of the instructor. *Four credit hours.* H DIONNE

FR493Bf Francophone African Voices Focused on the work of contemporary women's writers, this seminar engages with the female and subaltern experience of space and/or immigration as a medium for intercultural encounters between the West and the postcolony in the 20th and 21st centuries. The female perspective heralds a new shift in the post-colonial representation of border-crossing, cosmopolitanism and sociocultural violence, which we will also deal with in relation to religious intolerance, prejudice, modernization, and patriarchy. Our engagement with these issues will be based on a reading of fictional, historical and theoretical works that will help frame the discussions. Films and documentaries will be used to supplement the fictional texts. *Prerequisite:* Senior standing as a French studies major and permission of the instructor. *Four credit hours.* NIANG

GEOLOGY

Chair, Professor W. Herbert Wilson Jr. (Biology)

Professors Robert Gastaldo and Robert Nelson; Assistant Professor Walter (Bill) Sullivan; Visiting Assistant Professor Bruce Rueger

If you are interested in planet Earth—how it developed its present features and what may happen to it in the future, how it functions as a complex physical and chemical system and why we should care, where life originated and how and why our planet supports us, how the environment works and how what we do affects the world around us—a major in geology may be right for you.

The Department of Geology possesses extensive rock, mineral, and fossil collections as a basis from which to investigate Earth, a state-of-the-art powder X-ray diffractometer (XRD) for determining mineral identities, various geophysical instruments, research-grade stereo and petrographic microscopes, and Logitech-equipped rock preparation. The department houses the College's scanning electron microscope (SEM) equipped with energy-dispersive X-ray fluorescence, as well as specialized equipment for student and faculty research. Additional research equipment, shared with other departments in the Division of Natural Sciences, includes a C,H,N,O, S elemental analyzer and the *Colby Compass*, a research boat equipped with an array of instrumentation from which real-time environmental analyses and studies can be conducted.

Colby's setting provides an intriguing and exciting area for field study, allowing students to integrate field and laboratory experiences. Students are encouraged to work on independent and honors projects in which they develop ways of actively examining and interpreting observational data. Majors are expected to undertake and complete independent research as part of their undergraduate training, and such opportunities are offered routinely during the summer by departmental faculty at Colby and abroad.

Fieldwork is an integral part of many courses and introduces students to various aspects of local and regional geology. Multi-day off-campus trips also are scheduled regularly to localities and areas of particular geologic interest, such as the Hartford Basin of Connecticut, the Mohawk Valley or Catskill Mountains of New York, the classic Joggins and Brule localities in Nova Scotia, and late Paleozoic rocks of New Brunswick. The department also provides off-campus international experiences, including study in Bermuda.

The department offers two major programs and a minor for students with different interests. The point scale for retention of the major applies to all courses taken in the major; no requirement may be taken satisfactory/unsatisfactory. Students should consult regularly with their advisor in selecting courses appropriate for meeting their goals of post-graduation employment or graduate studies.

Requirements for the Major in Geoscience

Geology 141 or 146; four fundamental core courses that include 225, 231, 251, and 254; two geology elective courses (that are 200-level or higher and may include one course in mathematics, physics, chemistry, biology, or GIS), three credits of Geology 391, and three hours of independent study (491 or 492); Mathematics 122 or 212; Chemistry 141; and one additional laboratory science course in chemistry, biology, or physics.

Requirements for the Major in Geology

This curriculum is designed for those students interested in pursuing a pre-professional degree program. The requirements are Geology 141 or 146; four core courses that include 225, 231, 251, and 254; four geology elective courses (numbered 200-level or higher and may include a course in mathematics, physics, chemistry, biology, or GIS), three credits of Geology 391, and three hours of independent study (491 or 492); Chemistry 141; one two-semester sequence of chemistry, physics, or biology; Mathematics 122 or 212. Students should consult one of the major advisors in the first and second years regarding election of languages and other Colby required courses.

Requirements for Honors in Geology

This program involves a substantial research component in the student's senior year, with no fewer than six hours of credit elected in research activities. Participation in the honors program requires a 3.5 GPA in the major by the end of the junior year before a faculty sponsor can consider the project. The honors program involves presentation of a research proposal to a faculty committee early in the fall semester, submission of a midterm progress report, drafting of introductory sections before January, and submission of a full draft manuscript for committee review by spring break. Satisfactory progress will result in credit for Geology 483 and 484. Successful completion of an honors research project, and the major, will enable the student to graduate "With Honors in Geology." Students who wish to pursue a more intensive research agenda should consider the Senior Scholars

Program.

Requirements for the Minor in Geology

A minor in geology is available to students majoring in other disciplines who also desire an introductory understanding of the geosciences. Minor programs will be tailored to the needs of individual students; course selection should be done only after consultation with the minor advisor. Requirements are Geology 141 or 146, and four geology courses selected from courses numbered 225 and above.

Course Offerings

GE115f Extinction: Earth's Lessons Students will learn the processes responsible for the fossil record; evolution and evolutionary theory; the use of paleontological data to understand ecological response to climate change, perturbation, and extinction mechanisms; and how deep time lessons scale to a planet dominated by man. They will gain a conceptual framework for how to acquire, analyze, and assess deep time biodiversity trends; increase their written and oral communication skills; develop constructive critical thinking and argumentation; and learn the fundamentals of discovery, evaluation, and use of appropriate resources. *Prerequisite:* First-year standing. *Four credit hours.* **N,W1** GASTALDO

[GE129] Geology of Islands Explores the geological and biological origins of islands as physical entities. Students will come to appreciate the many diverse processes that create and maintain islands, as well as the significance of islands in the world around us, including their influence on surrounding marine environments and how they are in turn influenced by those marine environments. The Galapagos Islands in particular have played a pivotal role in the development of scientific thinking since the 19th century, and they will be a focus of study. Part of the three-course Integrated Studies 129 cluster, "Islands in the Sun." *Prerequisite:* Concurrent enrollment in Biology 129 and English 129. (Elect IS129.) *Four credit hours.* **N**

GE141fs Earth and Environment The geosciences encompass the study of the Earth, its formation, its history, the processes that continue to shape it today, and our interaction with it. Students learn (1) how Earth processes operate, how they shape the environment we live in, and how they can affect people; (2) where Earth resources come from, the impacts of using these resources, and how we can reduce these impacts; and (3) the methods we use to understand these processes and impacts. Additionally, the course improves students' critical-thinking and data-analysis skills. Students who have already received credit for GE141 cannot subsequently receive credit for GE151; students taking GE151 in January, however, are not barred from subsequently taking GE141 for credit. *Four credit hours.* **N,Lb** RUEGER, SULLIVAN

GE146fs Deciphering Earth History The Earth's history, from galactic and planetary origins through today. Major concepts include basic plate tectonics, geologic or "deep" time, fossils, sedimentary systems, and evolutionary theory. Students will gain insight into the interrelated nature of the biological, chemical, and physical world and the ways in which the planet and its environments have changed and operated over the past 4.6 billion years. Designed for those with no prior geologic background. Lecture and laboratory. Credit cannot be earned for both this course and Geology 142. *Four credit hours.* **N,Lb** NELSON, RUEGER

[GE151] Introduction to Volcanoes and Volcanology Volcanoes have been critical in the formation of the Earth, our atmosphere, and oceans and remain integral factors in the lives of billions around the globe. Students learn (1) how Earth processes operate, how volcanic processes shaped local, regional, and global environments, and how they affected human history and will affect humankind in the future; (2) methods scientists use to understand these processes and impacts; and (3) that despite potential destruction of human infrastructure, volcanic eruptions produce benefits too. Students who have already received credit for GE141 cannot subsequently receive credit for GE151; students taking GE151 in January, however, are not barred from subsequently taking GE141 for credit. *Three credit hours.* **N**

[GE153] Meteorology Using text and real-time data, students discover how the basic principles of meteorology are used to understand weather systems and learn how to forecast weather patterns using these principles. A field trip allows those enrolled to interact with working meteorologists and discuss how forecasts are made for the public and private sectors. Students present their own meteorological research efforts, demonstrating their understanding of the principles and practices presented during Jan Plan. Satisfies the non-lab science requirement. *Three credit hours.* **N**

GE225s Mineralogy Introduces students to the methods geologists use to identify minerals and the geologic environments in which they form. Students will gain experience using the petrographic microscope, powder X-ray diffractometer, and scanning electron microscope to identify major rock-forming minerals. Students will develop interpersonal, critical-thinking, and communication skills that enable them to discuss the chemical and physical processes controlling mineral formation. Concepts learned serve as the foundation for subsequent upper-level geology courses. *Prerequisite:* Geology 141, 142, or 146, and Chemistry 141 (may be taken concurrently). *Four credit hours.* DUNN

GE231f Structural Geology Structural geologists study the geometry of geologic structures such as faults and folds, how these structures form, their significance to the geologic history of an area, and their relationship to plate-tectonic motions. Enables students to (1) evaluate a suite of geologic structures to draw conclusions about their formation and significance, (2) apply basic structural-analysis techniques to solve problems in a variety of geoscience disciplines, and (3) develop the three-dimensional thinking skills needed to evaluate subsurface geology using two-dimensional, surficial data sets. Aims to

improve students' graphical and written communication skills and data collection and recording skills. *Prerequisite:* Geology 141, 142, or 146. *Four credit hours.* SULLIVAN

GE251f The Record of Life on Earth Using original research as an educational platform, students learn how to acquire and assess scientific data, to reference and synthesize primary literature, and to justify their arguments and conclusions in both written and oral forms. Provides a greater understanding of the processes responsible for a fossil record, its classification, the use of these data in evolutionary theory, the dynamics of individuals and populations or organisms over space and time, and the application of paleontological data to understanding ecological response to climate change, perturbation, and extinction mechanisms. Lecture and laboratory. *Prerequisite:* Geology 141, 142, 146, or one year of biology. *Four credit hours.* GASTALDO

GE254s Principles of Geomorphology Geomorphology is the study of the Earth and all its surficial expression and the continuing evolution of the planet as climate-dictated surface processes seek to remold the underlying solid Earth. Students learn the processes at work in the breakdown of rocks into soils and how mountains, valleys, and all the other myriad landforms of the Earth originated, at a range of scales from millimeters to tens of kilometers. Through understanding of the processes at play in these origins, interpretations of the origin of extraterrestrial landforms becomes possible as well. *Prerequisite:* Geology 141, 142, or 146. *Four credit hours.* NELSON

[GE279] Geology of Bermuda Students will learn how the island of Bermuda, subjected to a variety of geologic processes, has evolved over the past two million years. They will be exposed to the scientific method and how geologists study the Earth, its materials, and its processes. During field and laboratory observations, students will investigate how organisms, including humans, and sedimentary processes have shaped Bermuda; how sediment is formed, moved, consolidated, and lithified; and the interrelationships between geology and biology. They will gain an appreciation of the complexities of living on an island and the anthropogenic impacts on a fragile ecosystem. *Prerequisite:* Geology 131, 141, 142, or 146. *Three credit hours.*

GE297j Hydrogeology An introduction to the fundamental principles of hydrology combined with basic knowledge of geophysical logs collected in water wells. Provides students with tools necessary to characterize groundwater systems. Geophysical logging has traditionally been applied in the oil industry, but a new generation of tools has been designed specifically to evaluate aquifer properties. Topics include the hydraulic properties of rocks (matrix and fracture), the analysis of pumping tests to quantify aquifer transmissivity, and a review of geophysical tools and techniques used to investigate fluid flow through the subsurface. Includes lectures, interpretation of pumping-test data, analysis of a variety of geophysical logs, and equipment demonstrations. *Prerequisite:* Geology 141 or 146, and Mathematics 121 or 122. *Three credit hours.* MORIN

[GE331] Plate Tectonics Primary-literature-synthesis course that guides students through the topic of plate tectonics from the development of the theory to some modern-day theories on crustal growth and plate-boundary processes. Students will be able to (1) piece together a broad-scale interpretation of the evolution of a plate boundary using data and interpretations gleaned from the primary scientific literature and (2) use basic thermochronologic, geophysical, geological, and geospatial data sets to interpret plate boundaries. Improving students' verbal and written communication skills while providing an experience in accessing, reading, and assimilating scientific literature. *Prerequisite:* Geology 231. *Four credit hours.*

[GE332] Igneous and Metamorphic Petrology Teaches students to identify igneous and metamorphic rocks and to understand the physical and chemical processes responsible for their formation. Students learn how to use and evaluate a variety of data sets, and they develop skills using a petrographic microscope and the Scanning Electron Microscope (SEM). They also develop interpersonal, critical-thinking, and communication skills that enable them to discuss petrologic processes in the broader geologic context of tectonic setting. *Prerequisite:* Geology 225. *Four credit hours.*

[GE334] Mountain Belts The anatomy and analysis of collisional mountain belts. Students will learn to (1) piece together a broad-scale interpretation of the evolution of a collisional mountain belt using data and interpretations gleaned from the primary scientific literature and (2) apply modern microstructural and macrostructural techniques used to understand the deformation history of mountain belts. Also aims to improve oral and written communication skills and provide experience in accessing, reading, and assimilating scientific literature. Previously offered as Geology 398. *Prerequisite:* Geology 231 *Four credit hours.*

[GE354] Glacial and Quaternary Geology An understanding of the causes of glaciation, mechanics of glacier formation, flow and transport, the resulting sedimentary facies and landforms (both erosional and depositional), and the history of glaciation on a North American and global scale. In the latter half of the course, students delve into the professional literature to come to understand the broad outline of what is known of the glacial history of Maine; multiple field trips are taken to key localities where students can experience and study sites and features covered in readings and classroom discussions. *Prerequisite:* Geology 254. *Four credit hours.*

GE356s Sedimentation and Stratigraphy A workshop designed to teach students how to apply sedimentary rocks to interpret Earth's stratigraphic record, and develop a fundamental understanding of sediments and resulting rock types found in Earth's sedimentary successions. Use of these classification schemes builds a knowledge of process-based models that reflect features found in common environments in which these sediment types occur. Models are applied to select examples in the stratigraphic record in which physical and remote-sensed (petrophysical) data are introduced and used to interpret past Earth conditions. Students will be able to evaluate the sedimentary rock record over space and time using presently accepted approaches and models. *Prerequisite:* Geology 225. *Four credit hours.* GASTALDO

[GE361] Topics in Geochemistry Uses lecture and primary literature to provide a quantitative skill set students can use to evaluate geologic processes on Earth, Moon, Mars, or asteroids. Radiogenic isotopes, stable isotopes, and trace elements are used to unravel salient problems in geology, such as the chemical evolution of the Earth through geologic time. Laboratory component emphasizes data analysis for multiple geochemical systems using computer-based programs. Students will learn to read, critique, and discuss primary literature as it applies to a variety of geochemical problems. Previously offered as Geology 397 (fall 2009). *Prerequisite:* Geology 225. *Four credit hours.*

GE372f Quaternary Paleoecology Directed research. Students will extract and learn how to identify pollen, plant macrofossils, and insect remains from a fresh research site. Students will gain an understanding of the usefulness of these organic remains in recent sediments to understand past environments and past climates, using what is known of modern ecological requirements of organisms to reconstruct the environment that existed at a site when a particular suite of sediments was deposited. Other groups of organisms may be covered if they are found and time allows. Techniques and skills developed are applicable in paleobiology, geology, and archeology. *Prerequisite:* Geology 142 and Chemistry 141; Geology 251 or Biology 271 is recommended. *Four credit hours.* NELSON

GE378f Geologic Environments in the Marine Realm An understanding of marine depositional environments in a variety of settings from shallow shelf to abyssal plain and from near shore to open ocean. Also, an analysis of sediment production by weathering and erosion, marine invertebrates, and seawater to interpret depositional environment. Includes an understanding of the formation of ocean basins and marine topographic features and of the oceanic and atmospheric circulation patterns on the transport of sediment in the marine realm. Anthropogenic impact on the ocean environment will also be considered. *Prerequisite:* Biology 163, Environmental Studies 118, Geology 141, 142, or 146. *Three credit hours.* N RUEGER

GE391fs Geology Seminar Paper discussions and presentations from invited guest lecturers on topics of current interest in all areas of the geosciences. Majors must complete three seminars during their course of study. Nongraded. *One credit hour.* GASTALDO, NELSON

GE483f, 484s Senior Honors Project A culminating, research-intensive experience in which students engage in an original project with the expectation that results will be of significantly high caliber to warrant publication after review by committee. The final written report will be in a selected journal format, and project results will be presented formally in a professional context. Students should consult with major advisors during their junior year to learn about on-campus and off-campus opportunities and experiences that can be used in preparation for undertaking an honors program. *Prerequisite:* Permission of the instructor. *Three or four credit hours.* FACULTY

GE491f, 492s Independent Study A culminating, independent research experience that involves the application of skills learned in both field- and laboratory-based course work prior to enrollment. Each student will undertake an original investigation into some aspect of a geosciences problem at various scales. A final written report (see requirements for Honors in Geology option) and formal presentation in a professional context result in the successful completion of this course. Students should consult with major advisors during their junior year to learn about on-campus and off-campus opportunities and experiences that can be used in preparation for independent study. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY

GERMAN

In the Department of German and Russian.

Chair, Associate Professor Arne Koch (German)

Associate Professor Arne Koch; Assistant Professor Cyrus Shahan; Language Assistant Ricah Kunde

The German program emphasizes the acquisition of superior skills in the German language as the basis for the study of the literatures and cultures of the German-speaking world. Unless otherwise noted, all courses are taught in German as students continue to hone their skills in reading, writing, speaking, and listening. Upper-level courses provide training in close reading and analysis of literary and cultural texts in order to further students' understanding of a culture different from their own. Students at all levels explore literature and film alongside culture and politics as well as history and contemporary affairs.

Majors in German studies are *encouraged* to study their entire junior year in a German-speaking country; majors and minors are *expected* to spend at least one semester abroad. Study-abroad options include approved programs in Berlin, Munich, Freiburg, Regensburg, Tübingen, and Vienna. The German faculty welcomes inquiries from students regarding the different programs and the one-semester and full-year options.

The major in German studies and the German minor provide excellent preparation for students who wish to pursue German-related grant opportunities, employment in international companies and organizations, or careers in government or academics.

Requirements for the Major in German Studies

The major in German studies requires 10 semester courses: six courses taught in German numbered above 127 including a 200-,

a 300-, and a 400-level course and four additional courses chosen from the German curriculum, taken abroad, or from courses with a substantial German component in departments such as Art, Government, History, Music and Philosophy. Once declared, all majors must take at least one course in the German program each semester they are on campus until graduation.

Requirements for the German Minor

The minor in German requires five courses in the German program numbered above 126 including a 200- and a 300-level course. Students who enter the program at the intermediate or advanced level should consult with their advisor in German regarding course selection.

The following statements also apply:

- The point scale for retention of the major and the minor is based on all required and approved courses numbered above German 127 for the major and German 126 for the minor.
- No major requirement may be taken satisfactory/unsatisfactory.
- Transfer of credits for courses from other institutions, including study abroad, will be evaluated by the advisor in German on an individual basis.
- Teacher Certification: Students desiring certification for teaching German should consult the faculty in German and in the Education Program.

Courses Approved for the Major in German Studies

Art

- 352 Modern Art, 1880-1914

Cinema Studies

- 142 Introduction to Cinema Studies

English

- 271 Critical Theory

History

- 111 The West from Antiquity to 1618
- 112 Survey of Modern Europe
- 224 Germany and Europe, 1871-1945
- 421 Debating the Nazi Past

Music

- 121 *Entartete Musik*: Degenerate Music
- 242 Music History II: High Baroque to the Dawn of Romanticism
- 341 Music History III: Music of the 19th and 20th Centuries

Philosophy

- 314 Karl Marx and Marxist Philosophical Thought
- 359 19th-Century Philosophy

Religious Studies

- 182 Jews and Judaism in the Modern World

Sociology

- 215 Classical Sociological Theory

Course Offerings

[GM120] Gaga and Kafka: Writing the Self Why does Lady Gaga have a tattoo of a letter written by German modernist author Rainer Maria Rilke? Why is a letter that Franz Kafka wrote to his father published as a piece of literature? Through stories, pamphlets, music, and philosophical texts we investigate voices, forms, and content as the means through which authors make public their political, religious, or gendered identity. We uncover the continuities between writing the self today—via 140-character tweets or the choicest picture on Facebook—and the writings that have made literary stars or political martyrs of authors past. Conducted in English. *Four credit hours.* **L,W1**

GM125f Elementary German I Introductory course for students with little or no previous knowledge of German.

Development of all four skills: listening, speaking, reading, and writing. Communicative and interactive acquisition of grammar and vocabulary via study of contemporary life in the German-speaking countries. Audiovisual materials and integrated multimedia accompany textbook instruction. *Four credit hours.* A. KOCH

GM126s Elementary German II Continuation of Elementary German I to further develop the skills of listening, speaking, reading, and writing. Communicative and interactive acquisition of grammar and vocabulary via study of contemporary life in the German-speaking countries. Audiovisual materials accompany textbook instruction and integrated multimedia. *Prerequisite:* German 125 or appropriate score on the German placement exam. *Four credit hours.* SHAHAN

GM127f Intermediate German I: Structures in Cultural Contexts Grammar review at the intermediate level with continued practice of speaking and listening skills, readings and interactive communication based on topics from German culture and literature, emphasis on practical uses of the language. First introduction to extended readings and writings in German via cultural contexts. *Prerequisite:* German 126 or appropriate score on the German placement exam. *Four credit hours.* SHAHAN

GM128s Intermediate German II: Readings in Cultural Contexts Continuation of Intermediate German I. Practice and review of written and oral communication skills emphasizing formation of correct, idiomatic structures. Strives to build reading skills and to introduce a variety of cultural ideas and contexts through selection of literary and cultural readings/viewings in German. Preparation for transition to in-depth study in a variety of areas of German studies. *Prerequisite:* German 127 or appropriate score on the German placement exam. *Four credit hours.* A. KOCH

GM129f Conversation Group Review and practice for students at the intermediate level. A selection of written, visual, and audio German language and culture sources will provide the basis for discussion and conversation. Conducted in German. Does not count toward the language requirement or the German major and minor. May be repeated for credit. Nongraded. *Prerequisite:* German 126. *One credit hour.* KUNDE

GM130s Conversation Group Review and practice for students at the intermediate level. A selection of written, visual, and audio German language and culture sources will provide the basis for discussion and conversation. Conducted in German. Does not count toward the language requirement or the German major and minor. May be repeated for credit. *Prerequisite:* German 127 or, with permission, concurrent enrollment in German 126. Nongraded. *One credit hour.* KUNDE

GM151j Dungeons and Dragons: The Middle Ages in German Literature (in English) A selection of readings from the Middle Ages to the present. Particular focus on representations of medieval popular topics such as knightly adventures, magic, and voyaging, as well as changing cultural notions of class, gender, and love. Poetry and prose readings, alongside selections of popular operatic and filmic adaptations. Conducted in English. *Three credit hours.* L H. KOCH

[GM231] Introduction to German Studies This first course beyond the language sequence continues the emphasis on composition and conversation, as well as on oral presentations of research. Introduction to German Studies through examination of social and historical developments from the age of Luther to Germany's unification in 1990 as reflected in literature, art, politics, and philosophy. Emphasis on analysis of aesthetic and intellectual accomplishments representative of major periods in German, Austrian, and Swiss history. *Prerequisite:* German 128. *Four credit hours.*

[GM234] German Culture Through Film An introduction and exploration of German culture through analysis of German-language cinema from its inception in the 1890s through the post-unified cinema of the present. Focus of popular and avant-garde films and notions of mass culture, education, propaganda, entertainment, and identity formation. Conducted in German. *Prerequisite:* German 128. *Four credit hours.*

GM237f The German Fairy Tale in Popular Culture (in English) Fairy tales permeate our culture on every level. Examines the role of the fairy tale (folktales, romantic variations, and Disney versions alike) in the construction of culture along with their adaptations in the media, comics, literature, art, and film. In analyzing the historical and social development of fairy tales as a genre, students are introduced to methods of literary analysis and cultural criticism. Humanities Lab requires students' work with fourth grade students at Mount Merici Academy. Counts toward the German major or minor. Open to first-year students. Conducted in English. *Four credit hours.* L A. KOCH

[GM252] Mission Impossible: Multicultural German Literature and Film (in English) Introduction to German-speaking literature and film by writers and filmmakers of African (Ayim, Oguntoye), Japanese (Tawada), Jewish (Celan, Honigmann), Romanian (Müller, Wagner), Russian (Kaminer), and Turkish (Özdamar, Zaimoglu, Akin) backgrounds. Emphasis on contemporary literature, with background readings from the Enlightenment through the present. Examination of creative approaches to issues of migration, exile, and globalization, with focus on language politics, identity formation, gender, history and memory, and the multicultural city. Counts toward the German major or minor. Open to first-year students. Conducted in English. *Four credit hours.* L, I

GM297f Poetry is Not Dead! The first course beyond the language sequence, examines the unique aesthetic, political, and philosophical critique of prose literature's diminutive partner in crime: poetry. Attending to canonical and non-canonical texts from German Classicism to tomorrow's verses, this is an introduction to German literary and cultural studies through composition, conversation, and research. Emphasis on analysis of aesthetic and intellectual accomplishments representative of major periods in German, Austrian, and Swiss history. Conducted in German. *Prerequisite:* German 128. *Four credit hours.* SHAHAN

GM298As CELLuloid Fantasies While "film" is becoming more of a misnomer when one speaks of cinema, CELLuloid Fantasies considers, through the past and present of film's smallest component—the film cell, the critique and hope cinema has offered, and asks if, in light of technological transformations, it still holds that critical purchase. Introduces students to major directors and periods of German cinema while parsing the aesthetic and political consequences of the medium and the message. CELLuloid Fantasies frames, through one of Germany's most prominent and celebrated philosophers and filmmakers—Alexander Kluge, film's many interventions into Germany's history. *Prerequisite:* German 128. *Four credit hours.* SHAHAN

GM298Bs Business German Introduces students to the language and practice of business German. Students study the economic geography of German-speaking Europe, advertising strategies, marketing, management, banking, personnel relations, trade, and other topics relevant to business in Germany. Emphasis on developing correspondence and communication skills in a business environment. Students will register for the WiDaF test administered at the end of the semester. Conducted in German. *Prerequisite:* German 128. *Three or four credit hours.* A. KOCH

GM329f Current Topics An informal weekly meeting for students at the advanced level for conversation practice. Source materials include newspaper and magazine articles, contemporary German film, television broadcasts and podcasts, along with other media. Conducted in German. Does not count toward the language requirement or the German major or minor. May be repeated for credit. *Prerequisite:* German 128. Nongraded. *One credit hour.* KUNDE

GM330s Current Topics An informal weekly meeting for students at the advanced level for conversation practice. Source materials include newspaper and magazine articles, contemporary German film, television broadcasts and podcasts, along with other media. Conducted in German. Does not count toward the language requirement or the German major or minor. May be repeated for credit. *Prerequisite:* A 200-level German course. Nongraded. *One credit hour.* KUNDE

[GM368] Sex, Madness, and Transgression A selection of texts from the Age of Goethe through the present, each prominently featuring the representation of acts of transgression: social, mental, or sexual. One of our guiding questions will therefore be how and for what purpose literature deals with cultural, political, and sexual norms and deviations. Texts include Büchner's *Woyzeck*, Schnitzler's *Reigen*, Dürrenmatt's *Das Versprechen*, Böll's *Katharina Blum*, and Jelinek's *Die Klavierspielerin*, as well as a number of theoretical sources. Conducted in German. *Prerequisite:* A 200-level German course. *Four credit hours.* L

GM397f Poetry is Revolting As an introduction to representative authors and cultural texts from German Classicism to the 21st century, we will look at the unique critique of verse and its aesthetic and political disassociation, and its revolt from other modes of literary dissidence. Through a focus on close reading skills in parallel with an examination of socio-historical developments, we will hone the ability to read verse alongside secondary and theoretical writings. Assignments include short critical essays, student presentations, and a semester research paper. Conducted in German. *Prerequisite:* A 200-level German course. *Four credit hours.* SHAHAN

GM491f, 492s 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

GM493s Seminar: Ideologies and Identities Critically assesses ways German art and culture engage with ideologies and questions of personal, cultural, and political concepts of identity. Among key ideas, the persistent "German question," along with notions of *Heimat*, regional and transnational belonging, gender, language politics, class, race. Discussions based on representative readings (poetry, prose, and drama), forms of artistic expression (music, visual art, and film), theory and secondary literature from the Enlightenment through the present-day Berlin Republic. Students write weekly response papers and short critical essays, participate in a writing workshop, complete a final research paper in German, and present research findings in a public symposium. *Prerequisite:* A 300-level German course and senior standing. *Four credit hours.* A. KOCH

GLOBAL STUDIES

Director, Professor Patrice Franko

Advisory Committee: Professors Patrice Franko (*Economics and Global Studies*), Paul Josephson (*History*), Mary Beth Mills (*Anthropology*), Kenneth Rodman (*Government*), Raffael Scheck (*History*), James Webb (*History*), and Jennifer Yoder (*Government and Global Studies*); Associate Professors Ben Fallaw (*Latin American Studies*), Andreas Waldkirch (*Economics*), and Hong Zhang (*East Asian Studies*); Assistant Professors Emma Garcia (*Spanish*), Mohamédou Niang (*French*), Maple Razsa (*Global Studies*), and Cyrus Shahan (*German*)

Requirements for the Major in Global Studies

Up to 14 courses, including the five courses that constitute the core curriculum; three courses focusing on cultures and places; three courses related to themes in global studies; and one senior seminar or appropriate independent study (Global Studies 491 or 492). At least one seminar or senior project must be completed during the senior year as the capstone experience. Majors must complete a concentration within the major unless they have a double major or minor in anthropology, Chinese, East Asian

studies, economics, environmental studies, French studies, German studies, government, history, Italian, Japanese, Latin American studies, Russian, or Spanish. Majors also must complete the equivalent of two courses beyond the introductory (usually through 131) level in a modern foreign language. Students are encouraged to develop language skills relevant to their regional specialization. At least one semester of foreign study is required, although under exceptional circumstances students with extensive overseas experience can petition the director and the advisory committee to be exempted. A student must receive a grade of C- or better for a course to count toward the major. No courses listed for the major may be taken satisfactory/unsatisfactory.

Note: Students must have at least a 2.7 grade point average by the end of the sophomore year to be eligible for foreign study. Students who do not meet this minimum requirement will not be able to retain their global studies major.

Note to junior transfer students: The College requires that all students spend at least four semesters in residence at Colby. Therefore, to satisfy the semester-abroad requirement for the major, junior transfer students must either stay for a fifth semester or enroll in a summer study-abroad program for at least nine credits (unless the study-abroad requirement has been met in some other way).

Courses Composing the Core Curriculum

Anthropology 112, Economics 133 and 134, Government 131, and History 276.

Courses Approved to Fulfill the Cultures and Places Component

Note that (a) at least two courses must be drawn from the same regional grouping and one course from a different region, and (b) courses must be drawn from at least two disciplines.

Africa:

<i>Anthropology</i>	237 Ethnographies of Africa 341 Culture, Mobility, Identity: Encounters in the African Diaspora
<i>French</i>	238 Introduction to the Francophone World: Africa 361 Francophone Cultures and Literatures of the Indian Ocean
<i>Government</i>	255 African Politics
<i>History</i>	364 Environmental and Health History in Africa

Asia:

<i>East Asian Studies</i>	152 Introduction to East Asia from the 18th Century to Modern Times 231 The Chinese Novel: Vignettes of Life in Imperial China 240 Japanese Animation: Sensitivity to Differences 251 Gender Politics in Chinese Drama and Film 252 Hell on Earth? Chinese Writers on Modern Chinese Society 257 From Communism to Consumerism 261 Japanese Language and Culture 268 Politics of Satire and Humor in Modern China 332 Masterpieces: Modern Japanese Novels 353 Globalization and Human Rights in China
<i>Government</i>	256 Conflict in East Asia 355 Winners and Losers in Chinese Politics 356 Winners and Losers in Japanese Politics
<i>History</i>	250 History of Modern China
<i>Religious Studies</i>	117 Passage to India: India and the Western Imagination 211 Religions of India 212 Religions of China, Japan, and Tibet 312 South Asian Women at the Crossroads: Tradition and Modernity 317 Sikhism: Scripture, Sacred Music, and Art 319 Bollywood and Beyond: South Asian Religions Through Film

Europe and Russia:

<i>French</i>	232 Cultural History of France
	233 Contemporary France
	236 Introduction to the Francophone World: The Americas
	238 Introduction to the Francophone World: Africa
	252 Provocative Texts: Engaging the World
	332 Voices of Dissent in Early Modern France
	343 Decoding French and Francophone News
	351 Minority Issues and Social Change in Francophone North America
	354 Parisian Encounters: Great Loves, Grand Passions
	358 Passionate Discontent: The 19th-Century Epidemic
	376 Shadows of the Past: Remembering Vichy France and the Holocaust
	378 French Revolution: Liberty, Equality, Fraternity, or Death
	493 Seminar (when appropriate)
<i>German</i>	231 Introduction to German Studies
	234 German Culture Through Film
	237 The German Fairy Tale in Popular Culture
	368 Sex, Madness, and Transgression
<i>Global Studies</i>	451 Ethnicity, Nationalism, and the State in Europe
<i>Government</i>	243 Politics of Subnational Culture and Identity in Europe
	259 European Politics
	266 German Politics
	354 The European Union
	359 Political Ideologies and Revolutionary Movements in Europe
<i>History</i>	112 A Survey of Modern Europe
	224 Germany and Europe, 1871-1945
	227 The Russian Empire: Russia Looks to the West, 1613-1905
	228 The Russian Empire: Soviet History and 20th-Century Revolutions
	321 The First World War
	322 Europe and the Second World War
	327 Daily Life Under Stalin
	421 Debating the Nazi Past
	445 Nuclear Madness
<i>Italian</i>	262 Outsiders, Losers, Rejects: Topics in Italian Cultural Studies
<i>Religious Studies</i>	258 Religion and Literature in Modern Ireland
<i>Russian</i>	231 Topics in 19th-Century Russian Literature
	232 Topics in 20th-Century Russian Literature
	237 Gamblers, Madmen, and Murderers
	346 20th-Century Russian Poetry
	425 20th-Century Short Works
	426 The 19th-Century Russian Novel
	427 Re-Imaging Russia: Cinema and Russian Society 1986-2009
	428 The 20th-Century Russian Novel
<i>Spanish</i>	266 Language of Spanish Cinema
	351 Ideology and Ethics in Spanish Golden Age Literature
	352 Don Quijote
	371 The Colonial Experience: European and Amerindian Responses

Latin America:

<i>Anthropology</i>	231 Caribbean Cultures
<i>Economics</i>	214 Economic Policy and Performance in Contemporary Latin America
<i>French</i>	236 Introduction to the Francophone World: The Americas
<i>Government</i>	253 Latin American Politics 264 Challenges to Democracy in Latin America 335 United States-Latin American Relations
<i>Latin American Studies</i>	173 History of Latin America 174 Introduction to Latin American Studies 274 Race, Religion, and Frontiers in Iberian-American Colonization 275 Strongmen and Populism in Modern Spain and Latin America 277 History of the Maya from 200 B.C. 473 Seminar: Historical Roots of Violence in Modern Latin America
<i>Spanish</i>	265 The Short Novel in Spanish America 266 Language of Spanish Cinema 273 Contemporary Spanish-American Short Story 354 Detectives and Spies: Forms of Popular Culture in Spanish-American Fiction 371 The Colonial Experience: European and Amerindian Responses

The Middle East:

<i>Anthropology</i>	246 Engaging Muslim Worlds 264 China in Transition: An Anthropological Account
<i>Government</i>	251 Israelis and Palestinians: Conflict and Accommodation 252 Politics of the Middle East 358 Comparative Arab Politics
<i>History</i>	184 History of the Modern Middle East 285 Foundation of Islam 381 Women and Gender in Islam 389 History of Iran
<i>Religious Studies</i>	182 Jews and Judaism in the Modern World

Courses Approved to Fulfill the Theme Component

Courses must be drawn from at least two different disciplines.

<i>Anthropology</i>	236 Illegal Drugs, Law, and the State 244 Anthropology of Religion 256 Land, Food, Culture, and Power 258 Anthropology, History, Memory 373 The Anthropology of Gender and Sexuality
<i>Economics</i>	214 Economic Policy and Performance in Contemporary Latin America 271 International Economic Integration 273 Economics of Globalization 335 Topics in Economic Development 373 Open-Economy Macroeconomics 378 International Trade

	471 Multinational Corporations
<i>Environmental Studies</i>	234 International Environmental Policy
	346 Global Food Policy
	347 Tropical Forests and Rural Livelihoods
	366 The Environment and Human Health
<i>Global Studies</i>	211 Human Rights and Social Struggles in Global Perspective
	352 Internationalism: From Socialism to the World Social Forum
	437 Media, Culture, and the Political Imagination
	451 Ethnicity, Nationalism, and the State of Europe
<i>Government</i>	211 Capitalism and Its Critics
	231 U.S. Foreign Policy: The Cold War
	238 Politics of War Crime Tribunals
	251 Israelis and Palestinians: Conflict and Accommodation
	263 Democracy Assistance
	264 Challenges to Democracy in Latin America
	331 Business and American Foreign Policy
	332 International Organization
	335 United States-Latin American Relations
	344 Post-Communist Transformations
	354 The European Union
	357 Political Economy of Regionalism
	359 Political Ideologies and Revolutionary Movements in Europe
	432 U.S. Foreign Policy
	435 Memory and Politics
	451 Political Violence
	454 Politics of Development: State, Society, and Markets
<i>History</i>	321 The First World War
	322 Europe and the Second World War
	325 Prisoners of War and the Civilian Internees in the 20th Century
	364 Environmental and Health History of Africa
	381 Women and Gender in Islam
	394 Ecological History
	446 Global Health History
	447 The Cold War
<i>STS</i>	358 Climbing the Oil Peak

Courses Approved to Fulfill the Seminar Requirement

*Note: The student must submit a copy of the title page of the seminar paper signed by the instructor to demonstrate appropriateness for concentrations.

<i>Anthropology</i>	462 Global Mobilities: Movements, Modernities, Citizenships
	474 Anthropology as Public Engagement
<i>East Asian Studies</i>	493 Advanced Research in East Asia
<i>Economics</i>	471 Multinational Corporations
	477 Currency, Banking, and Debt Crises
<i>Environmental Studies</i>	493 Environmental Policy Practicum (if topic is appropriate*)
<i>Global Studies</i>	437 Media, Culture, and the Political Imagination
	451 Ethnicity, Nationalism, and the State in Europe
<i>Government</i>	432 U.S. Foreign Policy
	435 Memory and Politics
	451 Political Violence
	454 Politics of Development: State, Society, and Markets
<i>History</i>	414 History of Fear in Europe

	421 Debating the Nazi Past
	445 Nuclear Madness
	446 Global Health History
	447 The Cold War
	461 History and Development of Islamic law
	472 Daily Life under Khrushchev
<i>Latin American Studies</i>	473 Historical Roots of Violence in Modern Latin America
<i>Languages</i>	Senior-level seminar (if topic is appropriate*)

Note: Students can petition the director of the program to count a seminar-style 200- or 300-level course toward the seminar requirement. In such cases, students also will be expected to enroll in Global Studies 491 or 492 (for two credits) to complete an original research paper. Approval of this option is at the discretion of the instructor and the advisory committee. Students may also pursue a four-credit independent research project (Global Studies 491 or 492) to fulfill the senior requirement.

Note: Some courses are listed under two or three categories; with the exception of counting courses toward the concentration or a second major (if students have a relevant double major or minor [see above]), no single course can be used to satisfy more than one requirement. A minor must have four freestanding courses not required for the major. Students may petition to include other courses if the course has a substantial international component and is approved by the director and advisory committee.

Honors in Global Studies

An honors program is available in which the student can pursue a year-long independent research project that also fulfills the seminar requirement; successful completion of this project may entitle the student to graduate "With Honors in Global Studies." To be eligible, a student must have a grade point average of 3.5 or better in the major at the time of graduation and should submit a statement of intent to the program director by May 1 of the junior year. Students will register for a semester-long workshop on writing honors proposals in the fall; the final deadline for submission of a completed honors thesis proposal is the first Friday in October. See the Global Studies Handbook (online) for further information about procedures, including midyear evaluation and deadline for completion of the thesis.

Requirements for Concentrations

Majors are required to complete a concentration unless they have a double major or minor in anthropology, Chinese, East Asian studies, economics, French studies, German studies, government, history, Italian, Japanese, Latin American studies, Russian, or Spanish. Students may propose an independent concentration. Concentrations should be declared by the spring of the sophomore year. Students may elect more than one concentration.

Concentrations Focusing on Cultures and Places

A concentration focusing on cultures and places requires completion of the following:

- Four courses dealing with a specific region or cultural grouping such as Francophone Africa. Courses appropriate to each region are listed above under the cultures and places component. At least two of those courses should be taken at Colby. At least one of the four courses must be drawn from the social sciences and at least one other from the humanities.
- A coordination of cultural specialization with study abroad. For European concentrators, study abroad would normally take place in a non-English-speaking country.
- A coordination of the language requirement with foreign study where Colby offers an appropriate program.
- A seminar project or independent study in the senior year that addresses issues in the chosen area.

Thematic Concentrations

Four tracks have been established for thematic concentrations:

- International Relations/Foreign Policy
- International Economic Policy
- Development Studies
- Human Rights/Social Justice

Each track requires at least four courses designated as relevant to the respective field *plus* a seminar or an independent senior project relevant to the chosen specialization. Note that some of the courses appropriate for these concentrations are not designated as global studies courses. While they are relevant to their respective specialization, they do not count toward the requirements for the major or the grade point average in the major. These courses are designated by an asterisk (*).

International Relations/Foreign Policy

Students must take a relevant senior seminar (or senior paper) in addition to four of the courses listed below, two of which should be from the Government Department and one from the Economics Department. Introduction to American Government is strongly encouraged as an additional course.

<i>Economics</i>	273 Economics of Globalization
	335 Topics in Economic Development

	378 International Trade
<i>Government</i>	231 U.S. Foreign Policy: The Cold War
	238 Politics of War Crime Tribunals
	256 Conflict in East Asia
	263 Democracy Assistance
	264 Challenges to Democracy in Latin America
	332 International Organization
	335 United States-Latin American Relations
	354 The European Union
	357 Political Economy of Regionalism
	359 Political Ideologies and Revolutionary Movements in Europe
	432 U.S. Foreign Policy
	435 Memory and Politics
<i>History</i>	322 Europe and the Second World War
	325 Prisoners of War and Civilian Internees in the 20th Century
	447 The Cold War
<i>Latin American Studies</i>	275 Strongmen and Populism in Modern Spain and Latin America

International Economic Policy

Students must take a relevant senior seminar (or senior paper) and take four of the courses listed below; one must be outside of economics and two must be in economics:

<i>Anthropology</i>	256 Land, Food, Culture, and Power
<i>Economics</i>	214 Economic Policy and Performance in Contemporary Latin America
	271 International Economic Integration
	273 Economics of Globalization
	335 Topics in Economic Development
	373 Open-Economy Macroeconomics
	378 International Trade
	471 Multinational Corporations
<i>Government</i>	221 Capitalism and Its Critics
	332 International Organization
	354 The European Union
	357 Political Economy of Regionalism
<i>History</i>	364 Environmental and Health History in Africa

Development Studies

Students must take a relevant senior seminar (or senior paper) and take four of the courses listed below, one of which is drawn from Anthropology, one from Economics, and one outside of anthropology and economics:

<i>Anthropology</i>	256 Land, Food, Culture, and Power
	264 China in Transition: An Anthropological Account
<i>Economics</i>	214 Economic Policy and Performance in Contemporary Latin America
	335 Topics in Economic Development
	378 International Trade
	471 Multinational Corporations
<i>Global Studies</i>	352 Internationalism: From Socialism to the World Social Forum
<i>Government</i>	221 Capitalism and Its Critics
	252 Politics of the Middle East
	253 Latin American Politics
	263 Democracy Assistance
	264 Challenges to Democracy in Latin America
	451 Political Violence
	454 Politics of Development: State, Society, and Markets

<i>History</i>	364 Environmental and Health History in Africa 394 Ecological History
<i>Sociology</i>	274 Social Inequality and Power

Human Rights/Social Justice

Students must take a relevant senior seminar (or senior paper) and take four of the courses listed below, two of which are drawn from a core of Anthropology 236, Global Studies 211, Sociology 274.

<i>Anthropology</i>	236 Illegal Drugs, Law, and the State 256 Land, Food, Culture, and Power 341 Culture, Mobility, Identity: Encounters in the African Diaspora
<i>Environmental Studies</i>	366 The Environment and Human Health
<i>Global Studies</i>	211 Human Rights and Social Struggles in Global Perspective 352 Internationalism: From Socialism to the World Social Forum 437 Media, Culture, and the Political Imagination
<i>Government</i>	272* Modern Political Theory 355 Winners and Losers in Chinese Politics 356 Winners and Losers in Japanese Politics 451 Political Violence
<i>History</i>	325 Prisoners of War and Civilian Internees in the 20th Century
<i>Sociology</i>	252 Race, Ethnicity, and Society 274* Social Inequality and Power
<i>Women's, Gender, and Sexuality Studies</i>	311* Feminist Theory

Course Offerings

GS111f Human Rights in Global Perspective Offered by Colby's Oak Human Rights Fellows, an examination of displacement and internment associated with war, political repression, and social marginalization, with a special focus on the struggles of the Rohingya, a Muslim minority in Myanmar (Burma). What does it mean to be "stateless?" Do we have a basic human right to be citizens of some state? Why are the Rohingya in Myanmar so badly mistreated? Nongraded. Optional practicum for an additional credit. *Prerequisite:* Sophomore or higher standing. *One credit hour.* AUNG, THAN

[GS211] Human Rights and Social Struggles in Global Perspective Human rights have become one of the primary frameworks for understanding justice and injustice in the world today. Anthropology, however, with its longstanding commitments to exploring diversity and highlighting social inequalities, has often been uneasy with the universalism of human rights advocacy. A critical examination of such issues as relativism, women's and indigenous rights, and genocide. Involves a significant service learning component centered on the Oak Human Rights Fellowship. Students research candidates, develop reports, compare candidates, and nominate finalists to the selection committee. Assignments include written and oral modes of analysis. Strong emphasis on discussion and collaborative debate. *Prerequisite:* Anthropology 112 and sophomore or higher standing. *Three credit hours.*

GS214s Economic Policy and Performance in Contemporary Latin America Listed as Economics 214. *Prerequisite:* Economics 133 and 134. *Four credit hours.* I FRANKO

[GS243] Politics of Subnational Culture and Identity in Europe Listed as Government 243. *Three credit hours.* I

GS273f Economics of Globalization Listed as Economics 273. *Prerequisite:* Economics 133 and 134. *Four credit hours.* FRANKO

GS297f History of Southeast Asia: Crossroads of the World Listed as History 297. *Four credit hours.* H BEEMER

GS352s Transnational Social Movements: From Internationalism to Occupy Is revolutionary change possible today? Explores the promises and failures of radical movements from the First International in 1864 to the "global uprisings" of recent years. Considers the historical genealogy of today's transnational movements and their complex relationships to the modern nation-state. To what extent do labor, anarchist, anticolonial, indigenous struggles, the World Social Forum, Arab Spring, and Occupy Wall Street offer ways to imagine alternative political futures? Assignments include written and oral modes of analysis.

Strong emphasis on discussion and collaborative debate. *Prerequisite:* Anthropology 112. *Four credit hours.* S RAZSA

GS402s Global Studies Colloquium Attendance at selected program colloquia and current event discussions during the spring semester; written reflections to be submitted. Optional for senior global studies majors. *Prerequisite:* Senior standing in global studies. *One credit hour.* FRANKO

[GS435] Seminar: Memory and Politics Listed as Government 435. *Four credit hours.*

GS437f Media, Culture, and the Political Imagination Due largely to a surge of work by political filmmakers—from Moore to Gore—documentary film has recently reentered theaters and the popular consciousness after decades of relative neglect. Drawing on literature from cinema studies, visual anthropology, political theory, and social history, we trace the political documentary tradition from its origins in the 1920s. We interrogate evolving notions of political community at different historical junctures and their relationship to formal, aesthetic, as well as collaborative innovation within the documentary tradition from colonialism to grassroots globalization. Assignments include written, oral, and visual modes of analysis; strong emphasis on discussion and collaborative debate. *Prerequisite:* Anthropology 112 and senior standing. *Four credit hours.* RAZSA

GS451s Ethnicity, Nationalism, and the State in Europe Though the modern nation-state was unknown prior to the 18th century, it is now difficult to imagine life outside its framework of social and political organization. Critically reviews social scientific theories of ethnicity, nationalism, and the state. Examines dynamics of state formation, ethnic conflict, and nationalist revival in Europe. While drawing extensively on ethnographies, emphasizes the interdisciplinary study of the recent transformation of European politics through globalization, migration, and integration. Assignments include written and oral modes of analysis; strong emphasis on discussion and collaborative debate. *Prerequisite:* Anthropology 112, one other course on Europe, and senior standing. *Four credit hours.* RAZSA

GS483f, 484s Honors in Global Studies A year-long research project for senior majors, resulting in a written thesis to be publicly presented and defended. *Prerequisite:* A 3.40 grade point average and permission of the advisory committee. *Four credit hours.* FACULTY

GS483Jj Honors in Global Studies *Noncredit.* FRANKO

GS491f, 492s Independent Study An independent study project devoted to a topic chosen by the student with the approval of an advisor. *One to four credit hours.* FACULTY

GOVERNMENT

Chair, Professor L. Sandy Maisel

Professors Anthony Corrado, Guilain Denoeux, G. Calvin Mackenzie, L. Sandy Maisel, Kenneth Rodman, and Jennifer Yoder; Associate Professors Walter Hatch and Joseph Reisert

The Department of Government is a community of teachers and students dedicated to the study of politics, defined as the contest for and exercise of power.

At the conclusion of their course of study, majors in government should know (a) the major theoretical arguments about the nature and purpose of political communities, (b) the salient features and the strengths and weaknesses of various political systems and the reasons for those strengths and weaknesses, and (c) the principal theoretical frameworks for understanding the causes of international cooperation and conflict.

Our graduates will demonstrate the ability (a) to think critically and creatively, (b) to conduct political science research systematically, identifying and evaluating different sources of information and evidence, and (c) to communicate effectively the results of that research.

Requirements for the Major in Government

Fulfillment of the government major requires successful completion of 10 courses in government, including: Government 111 or 115, 131, 171; at least one “regional gateway” and one “thematic” course in comparative politics; and a 400-level senior seminar. The regional gateway courses include Government 251, 252, 253, 255, 256, and 259; the thematic courses include Government 221, 243, 263, 264, 344, 354, 357, and 359. A writing project meeting the department’s guidelines is also required.

Government majors should complete all of the required 100-level courses by the end of their sophomore year. Note that the only 100-level government courses that may be counted for the major are the required introductory courses. Students with a score of 5 on the Advanced Placement examination in U.S. Government and Politics may elect to substitute a 200- or 300-level course in American Politics for Government 111.

Among the courses counted toward the government major, all of the required, introductory 100-level courses, the 400-level course, and the writing assignment must be taken at Colby, and at least three 200- or 300-level courses (not including independent studies) must be taken at Colby. Students with AP credit who place out of Government 111 must take at least four

200- or 300-level courses at Colby.

Courses transferred from other institutions can count (up to a maximum of two) in the 10-course requirement. For transfer students, the department will count up to five courses from the previous institution with the permission of the department chair, excluding the seminar and writing assignment. 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.

To satisfy the departmental writing requirement, students must complete a major original research project of 20 pages or more or make a contribution to a group research project judged by the supervising faculty member to be equivalent to a conventional 20-page research paper. The writing project can be a major research paper assigned as part of a course or the product of a freestanding independent study.

No government major may take any government course satisfactory/unsatisfactory; only courses in which a grade of C- or better is received may be counted as part of the major. No requirement for the government major may be waived without written permission of the department chair.

The Senior Thesis and Honors in Government

For those students who intend to pursue the study of government in more depth, the department offers a senior thesis program that emphasizes substantial independent research under the close guidance of one or two members of the faculty. Students considering the thesis program are strongly encouraged to enroll in Government 281 during their sophomore or junior year. Students seeking admission to the senior thesis program are expected to seek approval of a sponsor and the department chair before the conclusion of their junior year. Students whose theses are judged worthy of honors by the department faculty will graduate "With Honors in Government." Further information is available from the department chair and on the department's website.

Introductory courses at the 100-level are normally limited to 50 students, 200- and 300-level courses to 25 students, and 400-level courses to 12 students.

Internships are encouraged so that students can experience the practical as well as the more theoretical aspects of the field.

Course Offerings

GO111fs Introduction to American Government and Politics How does the American government work? An examination of the relationships among American values, politics, government institutions, and public policy. Focus on the methodologies of political science as tools for expanding understanding of political phenomena and behavior. Credit cannot be earned for both Government 111 and 115. *Four credit hours.* **S, U** MACKENZIE, MAISEL, SHEA

GO113j Overview of the U.S. Legal System A discussion-oriented study of constitutional, criminal, and civil law, through readings, legal research, outside speakers, attending court, and visiting a maximum-security prison. Some field trips last all day. The fourth meeting of the week may vary between Thursday and Friday, depending on speaker availability. A \$75 fee covers the cost of transportation to off-campus events. *Three credit hours.* LEE

GO115s Great Issues in Contemporary American Government Controversial issues such as environmental policy or tax policy divide the American public and decision makers on a recurring basis. An introduction to the institutions of American government through the lens of these issues. Students will explore the linkages between citizens and government, the effectiveness of the electoral process as a means of resolving policy debates, and the checks and balances inherent in our system as each issue is examined. They will learn how to write about issues in a variety of formats, e.g., newspaper articles, speeches, and research papers, and how to make effective oral presentations. Credit cannot be earned for both Government 111 and 115. *Four credit hours.* **S,W1** MAISEL

GO116j News Literacy An exploration of various news media—traditional newspapers, online news organizations, blogs, network television, cable outlets, and others—seeking to understand how news is gathered and how the media differ in terms of news gathering techniques, emphasis on fairness and reliability, and interpretation. *Three credit hours.* OFFER

GO131fs Introduction to International Relations An introduction to the basic concepts and theories of international relations, focusing primarily on the core issues of war and peace as they have evolved in the international system, as well as the prospects for cooperation through international institutions to address issues such as human rights, nuclear proliferation, the world economy, and the global environment. *Four credit hours.* **S** HATCH, SEAY

GO171fs Introduction to Political Theory What are the nature and purpose of the modern state, or of any political community? What is freedom? What is justice? How do such ideals relate to the design and functioning of political institutions? Political theory is the subfield within political science that addresses these and related normative and methodologically foundational questions. Introduction to classic works of political theory by Aristotle, Hobbes, Locke, Rousseau, Marx, and Mill. Students will demonstrate their understanding of the primary texts and their ability to formulate original arguments in political theory by means of papers and exams; class sessions are conducted as a mixture of lecture and discussion. *Four credit hours.* **S, I** CORRADO, REISERT

GO197] Information Use and Misuse: Big Data in America Examination of "big data" (data collection and mining); how both the American government and businesses utilize our personal, geographic, and behavioral data; and the resulting impact upon our society and government. Overview of the policies and laws that govern big data use, the technologies that make it possible to collect vast amounts of data, and its applied use in the public and private spheres. Considers big data's impact on our everyday lives and our experience of privacy in America, and what it means to be information literate in the 21st century. Discussion-based. Students develop critical thinking and writing skills, and the understanding of policies, terminologies, and concepts needed to examine the topic and related case-studies. *Three credit hours.* KUGELMEYER

GO210s Interest-Group Politics Examines the role and behavior of organized interest groups in American politics. Provides students with opportunities to develop their substantive knowledge of group behavior, to develop their writing skills through the completion of an independent research paper, and to develop their oral communication skills. *Four credit hours.* CORRADO

GO211s The American Presidency The organization, powers, and actions of the executive branch of the American government examined in historical and contemporary perspective. Students will use the tools and methodologies of political science to assess the modern presidency and its incumbents. *Prerequisite:* Government 111 or 115, and sophomore or higher standing. *Four credit hours.* U MACKENZIE

GO212f U.S. Congress An examination of the people's branch of our national government, structured around the large questions of what it would mean for the Congress to represent the people and whether it succeeds in doing so. Topics include theories of representation, the constitutional framework establishing the powers of Congress and limits on those powers, the internal operations of the legislature (e.g., committee structure, leadership), interactions between the legislature and other governmental institutions, the electoral process, and suggestions for reform. *Prerequisite:* Government 111 or 115. *Four credit hours.* S SHEA

[GO214] Parties and the Electoral Process An exploration of the electoral process in the United States, emphasizing the historical development of American parties and elections, the legal and constitutional contexts in which they exist, the practical aspects of modern campaigns, and the democratic values inherent in our electoral system and those of other nations. *Prerequisite:* Government 111 and sophomore or higher standing. *Four credit hours.*

GO216j Political Rhetoric An introduction to the theory and practice of political rhetoric through the study of historically significant political speeches and the composition and delivery of original addresses, including intensive practice in persuasive writing and public speaking. Topics include the moral status of rhetoric and the identification and use of rhetorical figures and modes of persuasion. Works studied include the funeral oration of Pericles, speeches from Shakespeare such as Antony's subversive "Friends, Romans, countrymen," Lincoln's Gettysburg Address, and King's "I Have a Dream." For the culminating exercise, students will compose and deliver their own political speeches. *Three credit hours.* REISERT

GO221f Capitalism and Its Critics Examines the interaction between politics and markets, both in theory and in practice, linking classic works in political economy with current policy debates. Emphasizes the ways in which markets are embedded in social and political institutions. Studies the formation of markets, current organization of capitalist systems, and their recent transformations in developed, transitioning, and developing economies, considering both historical and contemporary issues. Fulfills thematic requirement. *Four credit hours.* S MAYKA

[GO231] U.S. Foreign Policy: The Cold War An analysis of the major events facing the United States during the Cold War and the controversies surrounding them. Academic and policy debates over national security doctrines, the proper place of ideology in foreign policy, the role of economic factors, and domestic political institutions. Topics include the origin of the Cold War, nuclear weapons strategy, the Vietnam War, containment and detente, and the end of the Cold War. *Prerequisite:* Government 131. *Four credit hours.*

[GO238] Politics of War Crime Tribunals Examines the politics of establishing tribunals to hold individuals criminally accountable for genocide and other atrocity crimes, from the Nuremberg and Tokyo trials after World War II through the International Criminal Court. Central questions involve the nature of post-conflict justice, the degree to which international legal bodies are insulated from or influenced by politics, and the impact of prosecution on transitions from war and dictatorship to peace and democracy. Academic and legal analysis combined with simulated court proceedings. Areas of application include South Africa's Truth and Reconciliation Commission, the Milosevic trial, the Pinochet extradition hearing, and issues surrounding Guantanamo and Abu Ghraib. *Four credit hours.* S

[GO243] Politics of Subnational Culture and Identity in Europe Examines the varieties of regional identities, social movements, and political parties in Europe. Explores questions such as, "Where are regional identities the strongest and why?" Considers whether the rise of regional movements and the devolution of power in many countries challenge the primacy of the nation-state in Europe. To what extent is the European Union a "Europe of the regions," where subnational political actors can find new opportunities to shape the political agenda? *Three credit hours.* I

GO251s Israelis and Palestinians: Conflict and Accommodation An examination of the roots, evolution, and changing dynamics of the conflict between Israelis and Palestinians. Focuses on key historical junctures, from the British mandate over Palestine, through the "Oslo Process" and its collapse, to the new situation created by the events of the past few years including

Hamas's victory in the parliamentary elections of January 2006, the Hezbollah-Israel war of July-August 2006, the growing divide between the West Bank and Gaza, and Israel's military assault on Gaza in December 2008-January 2009. Some attention is paid to media coverage of, and U.S. policy toward, the conflict. Fulfills the "regional gateway" requirement. *Prerequisite:* Sophomore or higher standing. *Four credit hours.* **S,I** DENOEU

GO252f Politics of the Middle East An introduction to politics in the Middle East. Provides essential historical background, analyzes the socioeconomic and cultural context in which Middle Eastern politics takes place, examines the relationship between Islam and politics, and presents the most salient challenges faced by the region. Explores the roots and dynamics of authoritarianism in the region and delves into recent and ongoing efforts at political and economic reform in selected Arab countries. Topics selected for special attention include the resiliency and adaptability of authoritarian regimes in that part of the world, failed Arab democratization experiments and what can be learned from them, and key impediments to substantive democratization. Fulfills the "regional gateway" requirement. *Prerequisite:* Sophomore or higher standing. *Four credit hours.* **I** DENOEU

GO253s Latin American Politics An introduction to the political development of Latin America. Discussion of key ideas about economic development, authoritarianism, revolution and, in particular, democracy. Includes a look at the work of some of the most important political analysts writing about Latin America today. Employs both multidisciplinary and disciplinary approaches to examine key political issues in Latin American politics. The main objective is to develop analytical and critical-thinking skills as well as the ability to think comparatively about political problems. Fulfills the "regional gateway" requirement. *Four credit hours.* **I** MAYKA

GO255f African Politics An overview of political processes and institutions in sub-Saharan Africa. The development of institutions and norms of political behavior across the continent will be traced from precolonial times to the present, with particular focus on the development of modern states, challenges to the legitimacy of governing authorities, and factors affecting state stability. Students will learn to identify, define, and apply theoretical concepts to the empirical study of African politics. *Four credit hours.* **S,I** SEAY

[GO256] Conflict in East Asia Introduces the domestic politics and foreign policies of nations/territories in East Asia, then pushes students to apply what they have learned to three specific cases of international conflict in Northeast Asia: the political status of Taiwan, competing memories of World War II, and the nuclear crisis on the Korean peninsula. A survey in which students learn about the countries of this region, about the volatile mix of fears and aspirations, and also how to think more deeply, communicate more effectively, and collaborate more successfully. Fulfills the "regional gateway" requirement. *Four credit hours.* **S,I**

[GO259] European Politics Examines the development of European political systems and their institutional arrangements, specifically how particular political arrangements may affect policymaking and implementation. Also explores several important questions and debates in European politics. Exposes students to a variety of viewpoints and, through a range of class assignments, helps students sharpen their research, analysis, writing, and oral presentation skills. Fulfills the "regional gateway" requirement. *Four credit hours.*

GO263f Democracy Assistance An introduction to the field of democracy assistance, taught from a practitioner's perspective. Students are exposed to key concepts, analytical frameworks, and techniques used by donors. Examines the main issues and debates in the field, the challenges and pitfalls specific to this craft, and what may be learned from both the successes and failures encountered by development professionals who have sought to support democratic forces abroad. Debates over the legitimacy, effectiveness, and evolving role of democracy promotion in U.S. foreign policy will be examined. Fulfills the "thematic" requirement. *Four credit hours.* **S,I** DENOEU

GO264f Challenges to Democracy in Latin America What have been the challenges associated with the establishment and consolidation of democracy in Latin America? Examines political regimes and regime changes in Latin America since the early 20th century, with a particular emphasis on the quality of democracy present in the current period. Topics include the breakdown of democracy, democratization, human rights, state capacity, interest representation and citizenship, and the concentration of power in the executive. *Four credit hours.* **S,I** MAYKA

[GO266] German Politics Examination of the political system of the Federal Republic of Germany, culminating in a discussion of the September 2009 parliamentary elections. Explores the German political parties, leaders, and policy debates central to the election. Students participate in a simulation of the negotiations to form a coalition government. Allows students to compare the German and American electorates, election campaign processes, and electoral and party systems. *Three credit hours.*

[GO271] Classical Political Theory An introduction to the political thought of classical antiquity, including the works of Thucydides, Xenophon, Plato, Aristotle, and Cicero. Topics include the nature of justice, the merits of direct democracy and other institutional forms, and the attributes of the ideal leader. Students will demonstrate their understanding of the primary texts and their ability to formulate original arguments in political theory by means of papers and exams; class sessions are conducted as a mixture of lecture and discussion. *Prerequisite:* Government 171 or Philosophy 211. *Four credit hours.*

GO272s Modern Political Theory An introduction to the political thought of modernity, from the Renaissance to the present,

including the works of Machiavelli, Hobbes, Locke, Rousseau, Kant, Hegel, Nietzsche, and Rawls. Topics include the idea of the social contract, the relationship between power and morality, competing conceptions of freedom and equality, the philosophy of history, and the intellectual foundations of modern liberalism. Students will demonstrate their understanding of the primary texts and their ability to formulate original arguments in political theory by means of papers and exams; class sessions are conducted as a mixture of lecture and discussion. *Prerequisite:* Government 171. *Four credit hours.* I REISERT

GO273f American Political Thought A survey of fundamental principles of American political thought as presented in the writings of such authors as Hamilton, Jefferson, Lincoln, and Roosevelt. General themes include the notion of republican government, concepts of liberty and equality, and the role of property in democratic society. Designed to provide students with an opportunity to develop critical-thinking and writing skills. *Four credit hours.* CORRADO

[GO274] Intellectual Roots of Modern Conservatism Diverse intellectual sources of the contemporary conservative movement in America, Edmund Burke to present. What does it mean to be a conservative? How (if at all) do conservative conceptions of man and society differ from liberal or "radical" visions? What (if any) is the relationship between conservative ideas and religion? How do multiple strands of conservative thought relate to one another? Readings from Burke, Thomas Carlyle, Benjamin Disraeli, Herbert Spencer, Michael Oakeshott, Friedrich Hayek, Russell Kirk, others. Assignments include short analyses of readings, in-class presentations, two longer analytical papers, and an exam (or a long research paper). Previously offered as Government 298. *Prerequisite:* Government 171. *Four credit hours.*

GO281fs Concepts and Methods of Political Science Research An introduction to a variety of approaches to the study of political phenomena, intended to prepare students to craft and complete more-sophisticated research projects in political science. After discussion of the nature and aims of scientific inquiry and the general features of effective research design, focus is on two broad methodological perspectives: explanation and interpretation. Within the former, topics covered include hypothesis testing and statistical analysis; within the latter, topics include the problem of historical truth, symbolic representation, and discourse analysis. Assignments will include response papers, problem sets, and exams. *Four credit hours.* Q MAISEL, SEAY

GO297j Legal Writing and Legal Argument: Through and After Law School Provides students with the writing and oral presentation tools needed in law school. Taught by a Colby alumnus who is a practicing attorney. Introduces students to the skills needed for a law degree and the wide variety of post-law school career options. Includes a variety of assignments and guest lecturers with experience in an array of legal fields. Designed to give those considering law school an introduction to legal writing and analysis, oral presentation, and advocacy in a variety of contexts facing law students and practicing attorneys. *Three credit hours.* HIGGINS

[GO313] Federalism in American Constitutional Law An examination of constitutional debates that have defined the structure and powers of the modern national government. Topics include constitutional interpretation; the operation and desirability (or not) of judicial review; the scope of the states' police powers in relation to congressional power; the conflict between economic rights and the modern regulatory state; and powers of the president, especially in times of terrorism, emergency, and war. Readings include U.S. Supreme Court decisions and related documents as well as secondary works in political science and law. Assignments include case briefs, class participation, papers, simulations (e.g., moot courts), and exams. *Prerequisite:* Government 111 or 115. *Four credit hours.* U

GO314s Civil Liberties in American Constitutional Law An examination of legal, moral, and philosophical controversies involving rights and liberties arising under the Bill of Rights and the 14th Amendment. Topics include the nature of rights and theories of constitutional interpretation; the right to the free exercise of religion and the establishment clause; freedom of expression; the "right of privacy" and protections for contraception, abortion, and homosexuality; and affirmative action and the status of women and minorities under the law. Readings include U.S. Supreme Court cases and related works of moral and political philosophy. *Prerequisite:* Government 111 or 115. *Four credit hours.* U REISERT

[GO316] Presidential Electoral Politics The procedural and electoral environment of presidential elections and the strategies employed in presidential campaigns by candidates, party organizations, and political committees. Topics include campaign communication strategies, media coverage of elections, and recent controversies associated with the voting process, with a focus on the current or most recent election. *Prerequisite:* Government 111 or 115. *Four credit hours.*

[GO317] The Policymaking Process The policymaking process, including 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 policymaking at the national level in the U.S. government. *Prerequisite:* Government 111 or 115. *Four credit hours.* U

GO318f Money and Politics The role of money in the political process and the policy debates on various campaign finance reform alternatives. Formerly offered as Government 419. *Prerequisite:* Government 111 or 115. *Four credit hours.* CORRADO

GO320f The Rights Revolution and Its Discontents The changing role of the national government in American society since the beginning of the 20th century, especially government involvement in defining and protecting individual and civil rights. Critical analyses of the movements that led to those expansions, the government programs that resulted, and the opposition and reaction they inspired. *Prerequisite:* Government 111 or 115. *Four credit hours.* U MACKENZIE

[GO331] Business and American Foreign Policy Examination of competing theories about the relationship between business and the state in the conduct of foreign policy. The relevance of these theories will be tested vis-à-vis cases of Cold War interventionism, East-West trade, economic sanctions, trade policy, the role of international banking, the arms industry, and the oil companies. *Prerequisite:* Government 131. *Four credit hours.*

[GO332] International Organization The structure, politics, and current operation of international organizations within the nation-state system. Topics include conflict resolution, nonproliferation, human rights, and international economic cooperation. *Prerequisite:* Government 131. *Four credit hours.*

[GO335] U.S.-Latin American Relations The evolving relationship between Latin America and the United States. Analysis will focus on the continuities and changes in U.S. policy toward Latin America as well as Latin American perceptions and policies toward the United States. Special attention to post-Cold War issues such as the war on drugs, democracy promotion, international migration, hemispheric trade, financial crises, crime, and terrorism. *Prerequisite:* Government 131 or 253. *Four credit hours.*

[GO344] Post-Communist Transformations Examines the rise and fall of communism in Russia and Eastern Europe. Offers analysis of the post-communist political, economic, and social transformation processes. Fulfills the "thematic" requirement. *Prerequisite:* At least one government course. *Four credit hours.*

[GO354] The European Union How should we understand the European Union? Is it a regional trade bloc, an international organization, or even a state—and, if so, what kind? Is it, as some have suggested, a superpower on par with the United States? If it is as significant as many attest, what are the implications for the primacy of nation-states and national sovereignty? A detailed and critical understanding of what the EU is and how it works. Through a variety of assignments, students analyze the design, construction, and operation of the new institutions of governance in Europe. Fulfills the "thematic" requirement. *Prerequisite:* Government 131. *Four credit hours.*

[GO355] Winners and Losers in Chinese Politics An exploration of contemporary Chinese politics, especially the political and social fallout from post-Mao economic reforms. *Four credit hours. I*

[GO356] Winners and Losers in Japanese Politics An exploration of Japanese politics, with a focus on the evolving struggle between traditional insiders (such as government bureaucrats and corporate executives) and traditional outsiders (such as labor unions and housewives). *Four credit hours. I*

GO357s Political Economy of Regionalism Comparative analysis of economic and political integration in three regions: Europe (the EU), North America (NAFTA), and Asia. Why do states agree to give up some sovereignty by cooperating on regional projects? Why do these projects vary so much from region to region? Fulfills the "thematic" requirement. *Four credit hours. HATCH*

GO358s Comparative Arab Politics Builds on knowledge acquired in Government 252 to explore the political dynamics of selected Arab countries. Highlights both similarities and differences in political processes across countries, evaluates the political changes taking place in each of them, and delves into the nature of the challenges they confront. For each country, key political actors are identified, and their resources, interests, and strategies are analyzed. Examines how these actors relate to one another according to both formal and informal "rules of the game" that confer a distinctive flavor on each country's political dynamics. *Prerequisite:* Government 252 *Four credit hours. DENOEX*

[GO359] Political Ideologies and Revolutionary Movements in Europe An exploration of major ideological currents and movements in modern Europe. Focuses on various forms of radicalism on the right and left of the political spectrum against the background of important political developments in Europe in the last century, such as the Bolshevik revolution, the rise of fascism and Nazism, the emergence of domestic terrorism, the explosion of nationalisms and fundamentalisms, and the collapse of Soviet-style communism. Fulfills the "thematic" requirement. *Prerequisite:* Government 131 or 171. *Four credit hours.*

[GO371] Foundations of American Constitutionalism An examination of the philosophical foundations of the Constitution and American political thought at the time of the founding through an analysis of Revolution-era documents, the writings of Locke and Montesquieu, and selected Federalist and anti-Federalist essays. *Prerequisite:* Government 111 or 115. *Four credit hours.*

GO397j Politics of Natural Resources Focuses on the politics of natural resources and their governance, including oil, water, minerals, and clean air. Students will learn to identify key theories of resource politics (primarily focusing on the resource curse and its critiques), compare and contrast resource governance regimes across time and geographic space, and produce a research paper on some aspect of international or comparative research governance. *Three credit hours. S SEAY*

[GO413] Seminar: Policy Advocacy Intensive study of selected public-policy issues and the techniques of policy advocacy; emphasis on oral presentations of policy positions. *Prerequisite:* Government 111. *Four credit hours.*

GO414f Seminar: Ethics in Politics A discussion of critical ethical issues faced by American and other national leaders. Case studies of 20th-century decisions, including those involved with violence (e.g., Truman's decision to drop the bomb on Hiroshima

and Nagasaki), deception in government (e.g., Oliver North's decision to lie to Congress about Iran-Contra), disobedience of those in authority (e.g., Daniel Ellsberg's release of the Pentagon Papers), policies regarding life and death (e.g., abortion and euthanasia laws), and others. *Prerequisite:* Government 111 or 115 and senior standing as a government major. *Four credit hours.* U MAISEL

GO417f Seminar: Reinventing America: A Constitution for the 21st Century The American Constitution was written in 1787 and has changed little since then. This seminar will examine the strengths and weaknesses of that document in the contemporary context. What no longer fits the needs of the United States in the 21st century? What is worth preserving? Participants will review the creation of the current Constitution, participate in a detailed analysis of the contemporary operation of the institutions and processes it created, identify areas in need of reform, and offer and justify specific reform proposals. *Prerequisite:* Government 111. *Four credit hours.* MACKENZIE

GO421s Seminar: Prospects for Political Reform Examines issues and various policy alternatives associated with reform of the electoral process. Topics vary but may include reform of candidate selection process and methods of voter participation. Designed to advance research, writing, and communication skills by requiring students to conduct an independent written research project and present the results to the seminar. *Prerequisite:* Senior standing as a government major. *Four credit hours.* CORRADO

[GO432] Seminar: U.S. Foreign Policy Examines debates surrounding U.S. foreign policy and multilateral institutions with a principal focus on national security issues in the post-Cold War world. Central questions focus on when the United States should define its security in terms of acting within or strengthening international laws and institutions or whether it should maintain its freedom to engage in unilateral actions in a dangerous world. Areas of application include the use of force, counterterrorism, nuclear nonproliferation, and arms control. *Prerequisite:* Government 131 and senior standing. *Four credit hours.*

[GO435] Seminar: Memory and Politics An exploration of domestic and international attempts to answer difficult questions about justice, collective memory, and democratic transition, particularly as they relate to whether and how a society should address a difficult past. *Prerequisite:* Permission of the instructor. *Four credit hours.*

GO451f Seminar: Political Violence A seminar exploring a variety of theoretical perspectives on political violence, with particular emphasis on terrorism and ethnic and religious violence. Introduces key relevant concepts and analytical frameworks and provides students with an opportunity to apply them to a case study of their choice. Students present the preliminary results of their research projects to the class. *Prerequisite:* Senior standing as a Government major. *Four credit hours.* I DENOEU

[GO454] Seminar: Politics of Development: State, Society, and Markets An inquiry into why some developing nations have managed to achieve industrialization and rising standards of living while others have not, with special attention to the relationship between state and society as one of the key factors in the development process. Cases include South Korea, Nigeria, Brazil, and India. *Prerequisite:* Senior standing as a Government or Global Studies major. *Four credit hours.* I

GO455s Seminar: Conflict and Crisis in Africa Focuses on political violence in Africa from the pre-colonial period to the present day. Students will be able to identify, compare, and contrast major theories of conflict and conflict resolution as they apply in sub-Saharan Africa. Students will also be able to describe the history of political violence in Africa, including pre-colonial conflicts, conflict related to colonization, wars of liberation, and post-colonization civil and intra-state wars. *Prerequisite:* Government 251, 252, 253, 255, 256, or 259. *Four credit hours.* SEAY

GO456s Seminar: Civil Society and Social Change in Latin America What are civil society organizations and what is their place in politics? This research seminar examines the evolution of civil society in contemporary Latin American democracies, and their roles in effecting social and political change. Over the past 30 years, civil society organizations in Latin America have become vehicles for poor and otherwise marginalized communities to access the political system. Topics include the collective action problem, the role of civil society organizations in interest representation and service provision, relationships with political parties and international donors, and participatory governance. *Prerequisite:* 200-level government course or a Latin American Studies course. *Four credit hours.* S,I MAYKA

GO474f Seminar: Democracy and Education in *Republic* and *Emile* A detailed examination of two masterpieces of political philosophy, Plato's *Republic* and Rousseau's *Emile*, with specific attention to issues of democratic theory and the philosophy of education. Students will be expected to develop their own philosophical arguments based on careful readings of the primary texts in conjunction with readings drawn from relevant secondary literatures. Written work includes weekly response papers, two short papers, and a major original research paper that satisfies the Government Department's paper requirement. One of the short papers and the final project will be presented formally. *Four credit hours.* REISERT

GO483f, 484s Honors Workshop Individual and group meetings of seniors and faculty members participating in the government honors program. *Prerequisite:* Admission to the honors program. *Four credit hours.* FACULTY

GO483J Honors Workshop *Noncredit.* MAISEL, REISERT

GO491f, 492s Independent Study A study of government through individual projects. *Prerequisite:* Government major and permission of the instructor. *One to four credit hours.* FACULTY

GO498s Islands, Nukes, Memories: Conflict in East Asia Examines the foreign policies and international relations of states and territories in Northeast Asia, with specific focus on competing claims to Islands (Taiwan, Senkaku/Diaoyu, Dokdo/Takeshima), the nuclear crisis on the Korean Peninsula, and the conflict over history (Nanjing Massacre, Comfort Women, etc.). A seminar in which seniors gain greater knowledge, but also learn to think more deeply and communicate more effectively about this increasingly important but troubled part of the world. *Prerequisite:* Government 131. *Four credit hours.* **S** HATCH

GREEK

In the Department of Classics.

The Classics Department offers courses listed in this catalogue under "Ancient History," "Classics," "Greek," and "Latin."

Course Offerings

GK111f Introductory Greek Western civilization and culture finds its basis in the ideas and thoughts of the ancient Greeks. Students acquire the basic principles of ancient Greek grammar, syntax, and vocabulary while learning to translate simple and some compound sentences from Greek to English and from English into Greek. The grammatical and syntactical aspects also bring an appreciation for and understanding of a radically different culture, separated from us by time and space. Other learning goals include developing reading comprehension skills, enhancement of critical and analytical faculties, and attention to detail. *Four credit hours.* H. ROISMAN

GK112s Intermediate Greek Students continue to acquire the basic principles of ancient Greek through grammar, syntax, and vocabulary, and thus come closer to the ideas and thoughts of the ancient Greeks. Students will acquire the elementary knowledge of tools necessary to read original Greek text. Various passages in the original Greek bring students an appreciation of ancient Greek literature. Learning goals include developing reading comprehension skills, enhancement of critical and analytical faculties, attention to detail. Satisfies the second semester of language requirement. *Prerequisite:* Greek 111. *Four credit hours.* H. ROISMAN

GK131f Introduction to Greek Literature Introduction to the reading of original ancient Greek text. The choice of text varies from year to year and consists of either poetry or prose. Focus on applying the concepts of syntax and grammar learned in previous semesters. It includes textual and literary analysis of the selected work. Learning goals include decoding of ancient text, further development of reading ancient Greek and comprehension skills, enhancement of critical and analytical faculties, improvement of oral argumentational structuring skills. *Prerequisite:* Greek 112. *Four credit hours.* **L** H. ROISMAN

[GK232] Male Deception: Sophocles's *Philoctetes* Sophocles's *Philoctetes* dramatizes the suffering and rage of a hero who was abandoned on a deserted island because of a putrefied and bad-smelling wound. Ten years later his comrades realize that without Philoctetes and his bow Troy cannot be captured, and they want him back. The play questions the values of betrayal, loyalty, and friendship. It debates the value of truth and deception as means for attaining goals and of the war itself. *Prerequisite:* Greek 131. *Four credit hours.* **L**

[GK235] The Defense of Socrates: Xenophon's and Plato's *Apology* What was Socrates's defense against the charge of impiety? Why was he willing to die? Plato and Xenophon give two different accounts of Socrates's pleas. *Prerequisite:* Greek 131. *Four credit hours.* **L**

[GK239] Revenge and Cowardice: Euripides's *Electra* In the Euripidean version of the myth of Electra, the playwright asks his audience what happens when one parent murders the other. How does one reconcile the imperative to avenge a father's murder with matricide? *Prerequisite:* Greek 131. *Four credit hours.* **L**

[GK252] Euripides's *Hippolytus: The Stepmother and the Prince* Phaedra lusts after her stepson Hippolytus, who expresses his devotion to the virgin goddess Artemis by choosing sexual chastity. His angry rejection of Phaedra's advances leads to suicide, false accusations of rape, and an ever-worsening family tragedy. We shall discuss and examine the interactions of this family through the prism of Greek tragedy's perspective on deception, truth, and emotional or devotional excess. *Four credit hours.*

GK258f Politics of Revenge: Sophocles's *Electra* Electra's own inaction in the face of her mother's crime is examined in this drama. Each of Greece's great tragedians confronted this horrifying tale of conflicting duties and responsibilities. The differing emphases and perspectives of Euripides and Sophocles will receive particular scrutiny. *Prerequisite:* Greek 131. *Four credit hours.* **L** H. ROISMAN

[GK351] Homer's *Odyssey* Odysseus arrives at Scheria and meets Nausicaa. Will he be safe? *Prerequisite:* Greek 131. *Four credit hours.* **L**

GK356s Homer, *Iliad* 1: Hero's Rage Achilles's quarrel with Agamemnon followed by his decision not to fight caused the Greeks and their allies many casualties and led to the deaths of Patroclus and Hector. The episode described in *Iliad* 1 questions

the values of authority, hierarchy, bravery, gratitude, loyalty, and arrogance, as well as the attitude of the Homeric Greeks toward their wives and concubines. The description of events allows us to analyze the emotions of anger and restraint, as well as forgiveness. Learning goals include further development of Greek reading and comprehension skills, familiarity with the Homeric epic, enhancement of critical and analytical faculties, improvement of oral and argumentational structuring skills, and refinement of writing skills. *Prerequisite:* Greek 131. *Four credit hours.* L H. ROISMAN

HISTORY

Chair, *Professor Elizabeth Leonard*

Professors Paul Josephson, Elizabeth Leonard, Raffael Scheck, Larissa Taylor, James Webb, and Robert Weisbrot; Associate Professor John Turner; Assistant Professors Elizabeth LaCouture and Daniel Tortora; Mellon Postdoctoral Fellow Bryce Beemer

History provides the opportunity to understand the diversity of human experience through the study of one's own and other cultures and societies as they have evolved over time. It is also a rigorous intellectual discipline involving research techniques, problem solving, the critical evaluation of evidence, and intensive writing. The department offers a wide variety of learning experiences, including lectures, individual tutorials, discussion groups, 300-level seminars, and senior research seminars. Students are expected to take courses in many areas of history in order to achieve a broad training in the discipline. A number of distinguished academic historians began their training at Colby; in addition, many majors find that history is excellent preparation for careers in secondary education, business, law, publishing, 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 (of at least three credits each), to include History 200 (Introduction to History); History 276 (Patterns and Processes in World History); a senior research seminar; and at least two courses in each of three areas: Category I (Africa, Asia, and world history); Category II (Europe, Russia, and the USSR); and Category III (the Americas). In each of these three areas, at least one course must be at the 200 level or higher; additionally, one of the courses must be in early history and one must be in modern history, as designated by the department (a detailed list of the distribution of courses among the fields is available on the department website). Because of Category I's geographical scope, complexity, and extraordinary cultural and historical diversity, students are strongly encouraged, but are not required, to take a minimum of *three* courses in Category I.

Of the 12 courses for the major, at least two must be at the 300 level. (Note: for the Classes of 2014 and 2015, only one 300-level course is required.) Beginning with the Class of 2016, History 200 and 276 are prerequisites for all 300- and 400-level courses unless special permission is granted to take one or both of them later. All majors must take a designated senior research seminar taught by a departmental faculty member, which also may count toward fulfilling an area requirement, and in which they write a major research paper. Students who choose to do honors in history during their senior year are still required to complete the senior seminar requirement. Many of these students choose to do the senior seminar in their junior year.

Up to three semester courses in history may be taken from historians at other colleges and universities in the United States and abroad. Please consult with the department chair if you have questions about non-departmental courses that are approved for the major.

The point scale for retention of the major applies to all courses in history. No requirement for the major may be taken satisfactory/unsatisfactory. No course will count for the history major if the grade is lower than C-. Seniors with a GPA of 3.75 or higher in history courses will graduate "With Distinction" in the major.

Honors in History

Admission to the year-long honors program requires at least a 3.5 grade point average in the history major and approval by the department. These projects signify a serious engagement with independent scholarship; interested students should plan to devote a large portion of their academic time to the project during their senior year. Students should begin planning for the honors project by the end of the spring semester of their junior year and, at the discretion of the history professor who agrees to act as honors advisor and following approval of a detailed research proposal by the department faculty as a whole, may be admitted in the first semester of the senior year to the honors program. A total of up to eight credits may be given for the year, including January Program credit. The honors thesis must receive at least an A- grade for the student to graduate "With Honors in History." For specifics on the procedures and expectations for Honors in History, as well as guidelines for writing the research proposal, please refer to the History Department's website.

Course Offerings

[HI106] Greek History Listed as Ancient History 158. *Three or four credit hours.* H, I

HI111f The West from Antiquity to 1618 An interdisciplinary survey of European history from ancient Mesopotamia to the religious wars. Larger themes include the evolution of legal systems and the development of kingship; ancient and medieval notions of history; relations between church and state; the development of universities; the impact of the plague; discoveries in the New World; and the Renaissance, Reformation, and religious wars. Focus is on the interpretation and analysis of primary

sources, class discussion, and development of writing skills. Throughout we will examine changing attitudes toward gender and sexuality; concepts of persecution, repression and tolerance; reactions to disease; and the results of economic disparity. *Four credit hours.* **H, I** TAYLOR

HI112s A Survey of Modern Europe An introduction to four centuries of an eventful and exciting history that has shaped not only Europe but the world of today. It includes an analysis of social structures, the role of the state, claims to political participation, intellectual currents, and a synthesis of everyday life and large-scale historical events changing at different paces. *Four credit hours.* **H, I** SCHECK

HI120f Made in China Long before Walmart stitched the "Made in China" label into your T-shirt and Apple slapped a similar sticker on your iPhone, China was known for its stuff—for producing, trading, and consuming luxury items and everyday goods. Introduces students to China's long history of material culture covering "things" from ancient Bronze Age vessels to Mattel toys and offering a historical perspective on such contemporary issues as China's growing economy, labor practices, Chinese consumerism, and U.S.-China trade relations. Students will develop basic skills in critical thinking, historical argument, research, and writing. *Four credit hours.* **H,W1** LACOUTURE

HI131f Survey of U.S. History, to 1865 A general overview of key issues and events in U.S. history from the age of settlement through the Civil War. *Four credit hours.* **H, U** TORTORA

HI132s Survey of U.S. History, 1865 to the Present The rise of national power and its implications for American democratic values. *Four credit hours.* **H, U** WEISBROT

HI136f American Superpower, 1945-1970 Examines the evolution of postwar America with attendant questions of economic growth and the challenge of poverty, national security in the nuclear age, rising protests and social justice, and cultural change and social order. Exposes students to diverse primary sources; hones critical thinking and interpretive skills; helps students write and speak clearly, concisely, and precisely; and, in conjunction with complementary courses in this cluster, draws connections between different disciplinary perspectives of a subject that can enrich understanding. Part of the three-course Integrated Studies 136 cluster, "America in the Postwar World: 1945-1970." *Prerequisite:* Concurrent enrollment in American Studies 136A and American Studies 136B. *Four credit hours.* **H, U** WEISBROT

[HI137] The Great Depression: America in the 1930s The Great Depression of the 1930s is still the worst economic collapse of modern times. Why did it come about? How did it pose a crisis of faith in capitalism? How did Americans cope with the hard times, and how did the experience shape their values and behavior? In what ways did the federal government respond, to what ends, and with what consequences? Exploration of these historical problems hones critical-thinking and interpretive skills; helps students write clearly, concisely, and precisely; and fosters clear, logical, and informed exchanges of ideas. Part of the three-course Integrated Studies 137 cluster, "American Stories: Understanding the Great Depression." *Prerequisite:* Concurrent enrollment in American Studies 137 and English 137. (Elect IS137.) *Four credit hours.* **H**

[HI154] Roman History Listed as Ancient History 154. *Three or four credit hours.* **H, I**

HI173f History of Latin America Listed as Latin American Studies 173. *Four credit hours.* **H, I** FALLAW

HI183f History of the Premodern Middle East The history of the Middle East from the rise of Muhammad to the rise of the Ottomans and Safavids. The spread of Islam, the development and application of religious and political authority, the Umayyad and Abbasid dynasties and their successors, the development of Islam in both its formal and more folk forms, the development of literature, art, science, and society. Gives a broad and deep understanding of the Middle East that will allow for more nuanced interpretations of current events grounded in an understanding of the long historical context. *Four credit hours.* **H, I** TURNER

HI184s History of the Modern Middle East The history of the Middle East from the post-Suleymanic Ottoman Empire to the present. Examines the fall of the Ottoman and Safavid empires, the rise of Western dominance, the struggle for independence, attempts at reform, the Arab-Israeli conflict, oil, the Iranian revolution, the Gulf War, the rise of Islamist movements, and ongoing repercussions. Particular focus on the interplay between religion and politics and the nature of power and authority. Designed to give the historical background necessary for understanding current events in the Middle East in their proper context. *Four credit hours.* **H, I** TURNER

HI200fs Introduction to History Required of all history majors and designed to help develop understanding of what it means to pursue authentic knowledge about the human past. Explores why historians do what they do and what it is they think they are doing. Develops some of the basic tools necessary to be a good historian, including research, writing, and methodological skills. Reveals the diversity and vitality of historical scholarship and helps students master its basic goals and techniques. *Four credit hours.* **H** LEONARD, WEBB

HI211s History of Ancient Civilizations: Mesopotamia to Ancient Greece Study of ancient civilizations (from c. 3100 BCE to 350 BCE) beginning with the first urban developments and legal systems of Mesopotamia, in-depth study of ancient Egypt from the First Dynasty of the Old Kingdom through the New Kingdom, Bronze and Archaic Age Greece, and finally the classical age. Emphasis will be on the concept of civilization, construction of laws and kingship, gender and ethnic diversity, and how the

cultures of ancient civilizations influenced political, cultural, and economic developments in the Western past. *Four credit hours.* **H** TAYLOR

[HI216] Church History and Theology in Medieval Europe Introduces students to the history and theology of Christianity from ancient through medieval times, ending with the Lutheran Reformation. After an introduction to the Bible and the earliest missions, we trace developments in doctrine, heresy, persecution, popular beliefs, gender, organizational structures, and relationships with other religions, specifically Judaism and Islam. *Four credit hours.* **H**

HI224f Germany and Europe, 1871-1945 What went wrong with Germany from the first unification to the catastrophe of Nazism? Examining the question of German peculiarities within the European context and the debate on continuities in recent German history. Focus on critical reading and writing skills and on understanding historical processes including patterns of exclusion and intolerance. *Four credit hours.* **H, I** SCHECK

HI227f Russian History, 900-1905: Orthodoxy, Autocracy, and Nationality The cultural and social history of Russia. Topics include Kievan Rus', the rise of Moscow, the westernizing influence of Peter the Great, and the development of serfdom and autocracy. Focus on Russia's self-identity as Western or Eastern and on the challenges of building civil society. *Four credit hours.* **H, I** JOSEPHSON

HI228s The Russian Empire: Soviet History and 20th-Century Revolutions The people of the Soviet Union lived through three revolutions (1905, 1917, 1991) and two world wars. Their leaders forced the pace of modernization and subjected their own citizens to class war, arrest, and execution. An exploration of the last days of Tsarism, of Leninism and Stalinism, and of the forces leading to the Gorbachev revolution and breakup of the Soviet empire. *Four credit hours.* **H, I** JOSEPHSON

HI230Af Religion in the United States Listed as Religious Studies 217. *Four credit hours.* **H** CAMPBELL

[HI230C] In Search of a Strong Man: Greece in the Fourth Century Listed as Classics 234. *Three credit hours.* **H, I**

HI231f American Women's History, to 1870 An examination of key themes in the varied lives of women in America from Colonial times to the end of the Civil War, such as their relationship to the public sphere and politics; women's work in the contexts of household production, early industrialization, and slavery; women and citizenship in the new republic; and women, religion, and social reform. *Four credit hours.* **H, U** LEONARD

HI232s American Women's History, 1870 to the Present An exploration of critical topics in the history of women in America from Reconstruction to the present, including the struggle for suffrage, black women in the aftermath of slavery, women and the labor movement, the impact on women of two world wars, birth control and reproductive freedom, women's liberation, the feminization of poverty, and the backlash against feminism. *Four credit hours.* **H, U** LEONARD

HI233f Native Americans to 1850 Through readings, discussions, and films, students will examine how native peoples actively sought to preserve their lands, cultures, and identities and will consider their social and cultural contributions to American life. Topics may include pre-contact Indian societies; contact and conflict with explorers, traders, missionaries, and settlers; warfare and society; the struggle against early American expansion; Indian removal in the East; and the Trail of Tears. *Four credit hours.* **H, U** TORTORA

HI234s Native Americans since 1850 Through reading, discussion, and film, students will examine how native peoples actively sought to preserve their lands, cultures, and identities and will consider their social and cultural contributions to American life. Topics may include warfare and removal in the West, cultural repression, boarding schools, Indian soldiers and code talkers, urban migration, termination, Indian activism and revival in the 1960s and 70s, and the ongoing struggle for sovereignty, recognition, and prosperity. *Four credit hours.* **H, U** TORTORA

[HI239] The Era of the Civil War A social, political, and cultural survey of the Civil War, its origins, and its aftermath. Was the war a watershed in American history, as historians have commonly suggested? And if so, what kind of watershed? *Four credit hours.* **H, U**

HI241s History of Colby College Through readings, lectures, discussion, presentations, and independent research, students will learn about the history of Colby since its founding in 1813. Students will participate in writing the College's history by doing independent research projects on Colby's past using the abundant resources in Special Collections and elsewhere. Who is your residence hall named after? Why are our sports teams called the Mules? How did town-gown relations change when the College moved to Mayflower Hill? Who was Janitor Sam? Who was Mary Low? Discover answers to these and a multitude of other questions you never have thought to ask. *Four credit hours.* **H** LEONARD

HI242s Colonial North America Through a continental perspective, explores the rich economic, social, and cultural diversity of the American colonies. We will consider the experiences, interactions, and conflicts of American Indians, Europeans, and Africans within the Spanish, French, Dutch, and English colonial empires in what is now the United States and Canada, from 1491 to the 1760s. *Four credit hours.* **H, U** TORTORA

- [HI245] Science, Race, and Gender** Historical analysis of the concepts of race and gender in four different ways: their institutional basis, their scientific content, epistemological issues that surround notions of race and gender, and the cultural and social background of the scientists and science that developed from 1800 to the present. Consideration of importance of historical issues for contemporary society. *Four credit hours.* **N, U**
- HI246s Luddite Rantings: A Historical Critique of Big Technology** Adopting a technologically determinist argument, the instructor will subject to withering criticism the way in which Westerners, and in particular Americans, have embraced such technologies as automobiles, computers, reproductive devices, rockets, and reactors, with nary a thought about their ethical, moral, political, or environmental consequences. Students will be encouraged to argue. *Four credit hours.* **H, U** JOSEPHSON
- HI247f African-American History, from Slavery to Freedom** Explores the experience of blacks in American society from Colonial times through the present. Subjects focus on racism, slavery, the role of African Americans in shaping the nation's history, and the ongoing struggle for equality. In exploring these historical developments, the course aims to expose students to a range of primary and scholarly sources; to hone critical thinking and interpretive skills; to help students write clearly, concisely, and precisely; and to foster clear, logical, and informed exchanges of ideas. *Four credit hours.* **H, U** WEISBROT
- HI250s History of Modern China** A survey of modern China from the late Qing Dynasty (18th century) to the present, examining how the idea and reality of "China" and "Chinese-ness" changed over time through exploring the relationship between ideological change and everyday life. Topics include the decline of empire and the rise of the nation-state, changing relationships between state and society, the development of ethnic, national and gender identities, urban cosmopolitanism, and communism and capitalism with Chinese characteristics. Previously offered as History 297. *Four credit hours.* **H, I** LACOUTURE
- [HI272] History of Law, Society, and Rebellion in Mexico** Listed as Latin American Studies 272. *Four credit hours.* **H, I**
- [HI274] Race, Religion, and Frontiers in Iberian-American Colonization** Listed as Latin American Studies 274. *Three credit hours.* **H, I**
- HI275j Strongmen and Populism in Modern Spain and Latin America** Listed as Latin American Studies 275. *Three credit hours.* **H, I** FALLAW
- HI276fs Patterns and Processes in World History** An introduction to patterns and processes in world history. Themes include the evolution of trade and empire, global balances in military and political power, impacts of disease, the evolution of capitalism, slavery and its abolition, global migrations, industrialization, imperialism, and decolonization. Students read essays and study maps of historical patterns and processes and write essays to hone their critical-thinking and writing skills. *Four credit hours.* **H, I** BEEMER, WEBB
- [HI277] History of the Maya from 200 B.C.** Listed as Latin American Studies 277. *Four credit hours.* **H, I**
- HI285f Foundations of Islam** A comprehensive introduction to the Islamic religious tradition focusing on the formative early period (seventh-11th centuries CE) and to contemporary interpretations and adaptations. Explores the nature of religion, religious knowledge, practice, identity, law, gender, and the nature of the divine. Analyzes the foundational beliefs, diversity, and social constructions within Islam by examining the early texts (the Qur'an, hadith/sunna), their interpretations, and their application through time. No prior knowledge expected. *Four credit hours.* **H, I** TURNER
- HI297f History of Southeast Asia: Crossroads of the World** An examination of the phases of Southeast Asian history beginning with the development of cities and states (prehistory to c. 800); the rise of the great Southeast Asian empires such as Angkor in Cambodia (ca. 800 to ca. 1400); the age of trade and the rise of great trading states (ca. 1400 to ca. 1800); and concluding with a discussion of Europe's emerging power in the region in the 19th century. Includes important historical themes such as gender relations, trade, indigenous notions of power and prestige, and religious diversity. *Four credit hours.* **H** BEEMER
- HI306f Alexander the Great** Listed as Classics 356. *Four credit hours.* **H** J. ROISMAN
- [HI311] Sainthood and Popular Devotion in the Middle Ages** Exposes the religious beliefs and practices of the people of the ancient and medieval world, looking beyond what was prescribed by the institutional church. How did religious behaviors structure people's lives? Why did some go so far outside of the accepted norms that they were considered heretics? Examines the role of women and non-Christians in medieval religious life. After extensive reading and discussion of secondary sources, students work on their own research projects using primary sources and present their final product to the class. *Prerequisite:* Prior course in medieval history recommended. *Four credit hours.* **H**
- [HI312] Medieval England, 1066-1485** The history of England from the Norman Conquest until the end of the Plantagenet dynasty in 1485. Topics include the impact of the Norman Conquest, the Anarchy, the spread of the king's justice and the church/state controversy, Magna Carta and the rise of parliament, women and gender, the Hundred Years' War, religion and culture, and the mystery surrounding the last Yorkist king, Richard III. *Prerequisite:* Junior or senior standing or previous

medieval history course. *Four credit hours.* H

HI313f Women in Medieval and Early Modern Europe The history of women and gender from the early Middle Ages to the French Revolution, with attention to women of all classes and categories of society: virgins, wives, and widows; saints, nuns, and mothers; queens, intellectuals, physicians, and brewers; prostitutes, magicians, and witches. Changes in legal, family, and economic status over time; working opportunities and restrictions; attitudes toward sexuality; *thequerelle des femmes*; male views of women; writings by women; church attitudes. *Four credit hours.* H, I TAYLOR

[HI314] Italian Renaissance An interdisciplinary seminar on the history and culture of the Renaissance in Italy, with special attention to Florence and Venice. Topics include culture (art, literature, music); civic life; gender, family and sexuality; humanism; religion and popular culture; politics. *Four credit hours.* H

[HI315] Heresy, Humanism, and Reform Why would someone be willing to kill or be killed for religious beliefs? The question is as relevant in the modern world as it was in the century of the Reformations. Using microhistories and *mentalités* as the basis for our study, this seminar will use discussion and extensive writing exercises to examine this issue as it related to the inquisition, anti-Jewish sentiment at the end of the Middle Ages, and the development of Lutheranism and the reformed religions. How did changes in belief restructure and challenge the very bases of European societies? What role did women play in religious change? We will also look at the beginnings of "toleration" and the ambiguous meanings of the word. *Prerequisite:* Junior or senior standing or a prior course in medieval history or religion. *Four credit hours.* H

HI316s Tudor England, 1485-1603 Seminar examines a period of major change in English history, not only with a new dynasty, but also with the Renaissance and Reformation, social and cultural changes, parliamentary developments, poor relief, the beginnings of colonialism, and the problem of women, including the significant number of female monarchs, the women accused of witchcraft, and family life. *Four credit hours.* H TAYLOR

[HI317] The Gothic Moment: Paris and the Ile-de-France, 1100-1250 An exploration of the 12th-century renaissance—the moment during which universities first develop, Gothic cathedrals and churches are built all over northern Europe, literature in the form of Arthurian legends, courtly love, and *fabliaux* reach all levels of society, and when speculative philosophy and theology engage the minds of the leading thinkers. Concentrating on Paris between 1100 and 1250, exploring the culture of this period through interdisciplinary studies. *Four credit hours.* H, I

[HI321] The First World War Covers the origins of the war, its impact on European societies, the experience of soldiers and of civilians on the home front, and the war's long-term legacy in Europe and the wider world. Focus on the meaning of total war, patterns of intolerance and persecution, the crusading spirit, and the sheer scale of violence. Includes an individual research component. *Four credit hours.* H, I

[HI322] Europe and the Second World War Seeks a deeper understanding of the origins of the war, its military, civilian, and diplomatic aspects, and its effects. Starts with an intensive look at the First World War and its aftermath, because the Second World War is hardly imaginable without the "Great War." Includes targeted debates on crucial aspects of the war and a strong research component. Focus is on Europe, but global dimensions receive ample consideration. Goal is to understand historical processes in their dramatic and unsettling openness—important, as the outcome was initially hard to predict, leading many Europeans to make decisions based on false expectations. *Four credit hours.* H, I

HI325f Prisoners of War and Civilian Internees in the 20th Century The detention camp was a prominent feature of the age of total war (1914-1945). In an age of mass armies, millions of people became prisoners of war. The fear of enemy aliens and "unreliable" populations led to the mass internment of civilians. Totalitarian regimes used concentration and forced labor camps to "reeducate," discipline, or decimate millions. How did international law try to adapt to these developments, and how did international organizations intervene? Internment experiences left a powerful legacy and inspired many works in philosophy, literature, and the arts. Focuses on Europe but makes rich global comparisons. *Four credit hours.* I SCHECK

HI327f Daily Life Under Stalin Many workers and peasants, and of course political elites, supported the Stalinist system, overlooking, discounting, or even justifying the great human costs of collectivization, industrialization, and the Great Terror as needed to create a great socialist fortress. An examination of the nature of regime loyalty under Stalin, making extensive use of primary sources. *Prerequisite:* Sophomore or higher standing. *Four credit hours.* H JOSEPHSON

HI336f After Appomattox An examination of America from the Confederacy's collapse in April 1865 to the Supreme Court's decision in *Plessy v. Ferguson* in 1896. What were the major issues facing the nation once the shooting war was over? What did Reconstruction accomplish? How much did emancipation change the lives of African Americans? Did women's activism on behalf of the war effort accelerate their expectations for equality in the postwar period? Where did all those soldiers go? We will address these and many other important questions. Enhances critical historical reading and thinking, excellence in research and writing, and competence in oral presentation. *Four credit hours.* H, U LEONARD

[HI337] The Age of the American Revolution The American revolutionary period (c. 1760-1820), blending political, social, intellectual, and cultural history, from 18th-century America as a society built on contradictions (liberty and slavery, property and equality, dependence and independence) through the rebellion against Britain to the democratic, slave-owning, egalitarian, libertarian, and hyper-commercial world of the early republic. *Four credit hours.* H, U

HI342s Crisis and Reform: American Society and Politics in 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. *Four credit hours.* H, U WEISBROT

HI350s Women and Gender in East Asia A seminar on the history of women, gender, and sexuality in China, Japan, and Korea. Offers students new insights into theoretical, cultural, and historical issues pertaining to sex and gender by looking outside contemporary and Euro-American contexts. Begins by examining early modern concepts of gender, culture, and the body and concludes with the rise of consumer capitalism and the "new woman." Readings cover a range of primary and secondary materials, including literature, visual and material culture, theoretical works, and historical monographs. Students will engage in active discussion, write an analytical essay, and complete an original research paper on a related topic. *Four credit hours.* H, I LACOUTURE

HI362s History of Egypt Focus on the cultural, social, and political development of Egypt from the 7th century conquest to the fall of Mubarak. Particular points of focus are state formation, development of nationalism, definition of religious and political identities, power relations, the struggles for control over resources and for independence, and Egypt's place in the power matrix of the Middle East. Through reading primary sources and secondary scholarship, students will come to a deeper understanding of the nature of history and historical processes. They will learn how to critically assess the arguments of history and the deployment of historical memory and how to articulate their assessments through writing papers and sitting exams. *Four credit hours.* H, I TURNER

HI364s Environmental and Health History in Africa A seminar on major issues in African environmental and health history. Topics include the impacts of the horticultural, agricultural, and livestock revolutions; the "Columbian Exchange" and the "Monsoon Exchange"; the rinderpest pandemic; colonial-era campaigns to control sleeping sickness, TB, and malaria; the colonial-era transformations of African disease environments; African and Western conceptions of disease etiologies; the interface between allopathic, traditional, and religious healing; and postcolonial campaigns against HIV. *Four credit hours.* H, I WEBB

[HI381] Women and Gender in Islam A comprehensive introduction to the construction of gender in the Islamic Middle East. Puts the lives of contemporary Muslim women and men into a deeper historical perspective, examining the issues that influence definitions of gender in the Islamic world. Through monographs, essays, novels, stories, and film, examines the changing status and images of women and men in the Qur'an, hadith/sunna, theology, philosophy, and literature. Traces changes and developments in those constructions of identity beginning with the rise of Islam and continuing through contemporary understandings. *Four credit hours.* H, I

[HI388] History of the Crusades Exploration of the historical circumstances of the Crusades primarily from a Middle Eastern perspective. The goal is to foster a broader understanding of the sociopolitical, religious, and economic forces driving the Crusades and their effects on the Middle East. Focus primarily on the Crusades of the 11th-13th centuries, but consideration is also given to their legacy and long-term effects. The nature of "holy war" from both Christian and Islamic perspectives, the nature of Christian-Muslim conflict, armed conflict in a premodern context, and whether there was such a thing as an East vs. West conflict. *Three credit hours.* H, I

[HI389] History of Iran Focus on the cultural, social, and political development of Iran from the rise of the Safavid dynasty to the election of Muhammad Khatami in 1997. Particular points of focus: state formation, the influence of the West on 19th-century economic and intellectual development, 20th-century internal struggles between the religious and political elite, the effects of oil and great power intervention, the rise of activist Islam and the revolution, the war with Iraq, and life after Khomeini. *Four credit hours.* H, I

HI394s Ecological History A seminar on major issues in ecological history. Topics include the relationship between ecological science and environmental history; the early impact of the agricultural revolutions; the "collapse" of early civilizations; processes of deforestation and desertification; the rise of the conservation movement; ecological costs and benefits of technological efforts to engineer nature; biological innovations and chemical controls; the paradox of population growth; and the contemporary crisis of modern agriculture and diet. *Four credit hours.* H, I WEBB

HI413f Research Seminar: Joan of Arc: History, Legend, and Film A critical examination of one of the most famous figures in history within the context of 15th-century French history and particularly the Hundred Years' War with England. Focus will be on the role of narrative and interpretation in the understanding of history from the time of Joan of Arc to our own. *Prerequisite:* Permission of the instructor. *Four credit hours.* H, I TAYLOR

[HI414] Research Seminar: History of Fear in Europe, 1300-1900 An exploration of how fear and different forms of communication or rumor influenced the course of European history in the medieval and early modern period. Case studies involve instances of anti-Judaism and anti-Islam; reactions to leprosy and syphilis; misogyny and demonology; xenophobia; and fear of death in all its forms from 1321 to 1888. Explores how changing communications from oral to semiliterate to journalistic culture influenced and changed history, marginalizing those outside the religious, gendered, ethnic, medical, and socioeconomic norms of society at a given time and place. *Prerequisite:* A course in medieval or early modern history. *Four credit hours.* H, I

HI421s Research Seminar: Debating the Nazi Past Explores the political and social dynamics of the Third Reich, the charisma and importance of Hitler, the choices of ordinary Germans, the genesis and execution of the Holocaust, and the problems of postwar Germans in dealing with the Nazi past. Focus on critical research, reading, and writing skills and on understanding historical processes including patterns of exclusion and intolerance and charismatically underpinned violence.

Four credit hours. H, I SCHECK

HI432s Research Seminar: Native Americans in New England An exploration of the experiences of Native Americans in New England within the broader context of American and Native American history and culture. How have Native Americans confronted racism, ignorance, and indifference to preserve their cultures and identities? The literary, artistic, and social contributions of natives to New England and to American life are examined closely. *Four credit hours.* H, U TORTORA

[HI435] Research Seminar: The American Civil War An in-depth study of the Civil War in America, with a series of common readings on the war, including its causes, its aftermath, significant military and political leaders (e.g., Grant, Lee, Longstreet, Sherman, Lincoln, Davis), the experiences and impact of the war for women and African Americans, the impact of defeat on the South, the ways in which Americans remember and reenact the war. *Four credit hours.* H, U

HI443s Research Seminar: 20th-Century Environmental History Students will consider the role of scientists, engineers, state officials, and the public in shaping the natural world in the 20th century. The focus will include major hydroelectric, nuclear, agriculture, and transportation infrastructure in North America, Europe, and South America. Students will complete an original research paper. Previously offered as History 498A (Spring 2012). *Four credit hours.* H, U JOSEPHSON

[HI445] Research Seminar: Nuclear Madness An examination of the place of nuclear technologies in the modern world, using social, cultural, and institutional history and focusing on the USSR and the United States. Nuclear technologies are symbols of national achievement, yet significant scientific uncertainties accompanied their creation, they require significant public outlays, and they have led to dangerous pollution. What explains their great momentum? *Four credit hours.* H

[HI446] Research Seminar: Global Health History An exploration of humankind's historical experience with disease. Topics include the nature of disease and health, the origins of disease, the distribution of disease over time and space, therapeutic and prevention strategies, epidemics of infectious disease, international health interventions, epidemiological transitions, and behavior and disease. Students learn to integrate natural science and social science perspectives, writing weekly intellectual journals, engaging in seminar discussion, undertaking a research project on the history of disease, and making a public presentation of their research. *Prerequisite:* History 276, 364, or 394. *Four credit hours.* H

HI447f Research Seminar: The Cold War Soon after World War II the Soviet Union and the United States began a struggle for military, diplomatic, economic, and ideological supremacy. Why did this confrontation develop? Why did it risk mutual nuclear annihilation and dominate global politics for more than 40 years? How did it shape and reflect the societies and governments that waged it? In exploring these issues, the seminar aims to expose students to diverse primary sources; to hone critical thinking and interpretive skills; to help students write and speak clearly, concisely, and precisely; and to foster independent research through a semester-long project. *Four credit hours.* H WEISBROT

HI461f Research Seminar: The History and Development of Islamic Law An examination of questions—how law comes to be, who has control over it, what makes it Islamic, how is it different from other systems—leading to a deeper understanding of the functions, diversity, and trajectories of Islamic law. We will explore the roots, historical paths of formation, and development of the major schools of Islamic legal thought and their arguments over and elucidation of *Shari'a*. This will shed light on current Islamist movements and their claims to that heritage and to the law. *Prerequisite:* Permission of the instructor. *Four credit hours.* H TURNER

[HI472] Research Seminar: Daily Life Under Khrushchev Nikita Khrushchev was Soviet premier from 1954 until Communist Party conservatives deposed him in 1964. He presided over a series of reforms under the banner of de-Stalinization. These reforms led consumers, intellectuals, and other citizens to anticipate the construction of communism within their lifetimes. In this seminar we examine daily life under Khrushchev. Readings consist of primary sources (in translation). Students will learn research and writing skills and complete an original research paper. Major foci include urbanization, political reform, the arts, consumer society, and the nature of Soviet socialism. *Four credit hours.* H

HI473f Research Seminar: Historical Roots of Violence in Modern Latin America Listed as Latin American Studies 473. *Four credit hours.* H, I FALLAW

HI483f, 484s History Honors Program Majors should begin to plan late in their junior year for admission into the History Honors Program. A detailed research proposal must be completed by the third week of the fall semester of the senior year. Requires research conducted under the guidance of a faculty member and focused on an approved topic leading to the writing of a thesis. Upon successful completion of the thesis and the major, the student will graduate "With Honors in History."
Prerequisite: Senior standing, a 3.5 grade point average in the history major at the end of the junior year, and permission of the instructor. Please see history department website for complete information and research proposal guidelines. *Four credit hours.* FACULTY

HI491f, 492s 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

HUMAN DEVELOPMENT

In the Department of Education.

A minor in human development is described in the "Education" section of the catalogue. Students may also pursue an independent major in human development. For more information, please contact the chair of the Education Program.

INTEGRATED STUDIES

Coordinator, Associate Professor Margaret McFadden

Integrated Studies is an innovative academic program designed to introduce first-year students to methods of interdisciplinary analysis and interpretation and to encourage them to use those methods to explore important questions about varied aspects of human experience. Taken together, integrated studies courses provide a strong foundation in the liberal arts, on which students can build during their four years at Colby. The program is supported by grants from the Christian A. Johnson Endeavor Foundation of New York.

Each year the program organizes several clusters of three courses that focus on a relatively brief historical period, studying that era from the perspectives of different disciplines. Students must sign up for all three courses. Integrated studies clusters allow students to explore a subject in great depth, working closely with a team of three faculty members in small, seminar-style classes. Students learn how to gain mastery of an important topic in considerable depth and from varied points of view. At the same time, the clusters provide a coherent context in which students can explore vital questions about human experience, pursuing an understanding of moral, political, aesthetic, spiritual, and epistemological issues as they are relevant to the cluster topic.

This intensive experience enables students to develop important intellectual capacities, including training in both disciplinary and interdisciplinary critical thinking and problem solving, critical writing, and meaningful participation in small group discussions. Each cluster also fulfills several all-College area distribution requirements, so each provides a broad, interdisciplinary liberal arts foundation for students' subsequent work at Colby.

The courses within each cluster, which have no prerequisites, are described in the list of courses and are cross-listed in their respective departmental sections of this catalogue. Each course is offered for four credit hours. Enrollment in each first-year cluster is limited to 15 to 20 students.

Course Offerings

IS126f The Green Cluster A three-course cluster on environmental literature, activism, and biological science. See Biology 131 (lab B is designated for this cluster), English 126, and Environmental Studies 126 for course descriptions. **Satisfies the First-Year Writing (W1), Literature (L), Natural Science with lab (N,Lb), and Social Science (S) requirements.** *Twelve credit hours.* **N,W1,Lb** BEVIER, CARLSON, MACKENZIE, STAFFIERE

[IS129] Islands in the Sun A three-course cluster with a focus on islands as lands of special origin and biological richness—lands that, as settings, give their own special twist to literature and film as well. Special attention will be paid to the scientific importance of the Galapagos Islands of Ecuador. See Biology 129, English 129, and Geology 129 for course descriptions. **Satisfies the First-Year Writing (W1), and Natural Science (N and N,Lb) requirements.** *Twelve credit hours.* **N,W1,Lb**

IS135s New York: Modern Global City Focus on New York City as an enormously influential place. Study and analysis of a range of cultural "texts" produced in and about New York, from literature to visual culture to the built environment; situating those works in larger historical, political, and economic contexts. Why do so many move to New York? What do they do when they arrive? How does New York serve as an economic and cultural control center in a globalized world? What might our focus on this city and its people teach us about the powerful forces that shape our worlds? An all-expenses-paid field trip to New York is central. See American Studies 135A and 135B and English 135 for course descriptions. **Satisfies the First-Year Writing (W1), Historical Studies (H), Literature (L), and Social Science (S) requirements.** *Twelve credit hours.* **H,W1** BURKE, LE ZOTTE, LISLE

IS136f America in the Postwar World: 1945-1970 The United States in the postwar era waged a Cold War with the Soviet Union that verged on full-scale nuclear war, and it experienced upheaval in race, gender, and ethnic relations; politics; and culture. We will explore connections among these developments. How did music, literature, television, and film document and comment on the social and political rebellions that defined the era? How did changing opportunities of African Americans and women reshape cultural expression? And how did the development of a new consumer culture transform the nation? See American Studies 136A, American Studies 136B, and History 136 for course descriptions. **Fulfills Arts (A), First-Year Writing (W1), Historical Studies (H), and U.S. Diversity (U) requirements.** *Twelve credit hours.* **A,W1,U** LE ZOTTE, LISLE, WEISBROT

[IS137] America in the 1930s The devastating crash of the U.S. economy in 1929 caused many Americans to question their faith in capitalism, and their values, ways of organizing family life, sense of community, and understanding of the social contract between citizens and their government. Americans used art, film, photography, literature, material culture, design, and other creative forms to represent their views and to reinvent and re-imagine a vibrant new America from the ruins of the old. We explore these cultural responses to economic and political crisis, paying special attention to the ways different groups contended to define the complexities of the Depression years and shape the national future. See American Studies 137A, American Studies 137B and Philosophy 137 for course descriptions. **Satisfies the Arts (A), First-Year Writing (W1), Historical Studies (H), and Social Science (S) requirements.** *Twelve credit hours.* **L,W1**

INTERNSHIPS

090 Internship A carefully directed work experience in a field related to Colby's academic program, most frequently at an off-campus job site and monitored by an on-site work supervisor. An internship must have a sponsor who is a member of the Colby teaching faculty, and it requires an online application, with final approval granted by the internship coordinator in the Career Center. A successful internship will receive transcript notation and, at the discretion of the faculty sponsor and the internship coordinator, one academic credit per internship, up to a maximum of three credits toward the 128 credits required for graduation. Internships completed in January may also count toward the Jan Plan requirement. Complete internship policies and application deadlines are on the Career Center website.

ITALIAN

In the Department of French and Italian.

Chair, Professor Bénédicte Mauguère (French)

Assistant Professors James Kriesel and Gianluca Rizzo; Language Assistant Marco Lucci

All courses are conducted in Italian unless otherwise noted.

Entrance Credit: If a student offers a foreign language for entrance credit and wishes to continue it at Colby, that student must either have taken the College Board SAT Subject Test or AP Exam in the language or take the placement test during orientation.

Requirements for the Minor in Italian Studies

The minor in Italian studies seeks to acquaint students with the breadth of Italian language and civilization and to introduce them to the life and culture of Italy, from the Middle Ages to the modern and contemporary unified Italian state. Minors are strongly encouraged to spend at least one semester studying in Italy. The minor requires six courses: a minimum of four in the Italian program, on campus, beginning with Italian 127, and either two additional courses in Italian literature or culture or two courses, which may be taught in English, that deal centrally with one field of Italian cultural studies (for example, Italian art, literature, cinema, or music). All courses taken outside of the department must be approved by the department chair. Students should plan on taking 127 and 128 consecutively, preferably before going abroad. Students planning to take fifth-semester Italian while abroad should see the department chair.

Course Offerings

IT125f Italian I Basic comprehensive course for students with little or no previous knowledge of Italian. Focus is on developing the reading, writing, speaking, and listening skills needed to gain fluency in Italian and on familiarizing students with basic aspects of Italian culture and geography. Learning in the classroom takes place entirely in Italian and is task based, involving group activities, interviews with fellow students, and role-playing exercises. *Four credit hours.* RIZZO

IT125Jj Italian I in Siena Basic comprehensive course for students with little or no previous knowledge of Italian. Focus is on developing the reading, writing, speaking, and listening skills needed to gain fluency in Italian and on familiarizing students with basic aspects of Italian culture and geography. Learning in the classroom takes place entirely in Italian and is task based, involving group activities, interviews with fellow students, and role-playing exercises. Conducted in Siena, Italy. Estimated cost: \$3,550. *Three credit hours.*

IT126s Italian II Continued basic comprehensive course for students with elementary knowledge (Italian 125 or equivalent) of Italian. Focus is on continuing development of the reading, writing, speaking, and listening skills introduced in Italian I and on increasing students' familiarity with aspects of Italian culture and geography. Learning in the classroom takes place entirely in Italian and is task based, involving group activities, interviews with fellow students, and role-playing exercises. *Prerequisite:* Italian 125. *Four credit hours.* KRIESEL

IT127f Italian III Continued practice in listening and speaking skills; grammar review, with greater emphasis on writing. Reading and conversation topics taken from contemporary Italian literature; course materials convey a sense and understanding of contemporary Italian society. *Prerequisite:* Italian 126 or equivalent. *Prerequisite:* Italian 126 or equivalent. *Four credit*

hours. RIZZO

IT128s Italian Through Film and Visual Culture Through an in-depth study of film and visual media, students will improve their understanding of Italian language and culture as well as master increasingly complex grammatical structures. Study of different aspects of Italian society and history as depicted in film, television, and the visual arts. Oral and written work will allow students to improve linguistic skills and expand cultural knowledge creatively. *Prerequisite:* Italian 127 or equivalent. *Four credit hours.* RIZZO

[IT131] Italian Conversation and Composition Study of contemporary Italian novel, short stories, articles, and films to increase vocabulary, consolidate knowledge of advanced grammatical structures, learn to express and support opinions, and improve analytical skills and intercultural awareness. Prepares students to engage in topics of current interest such as Italian politics, the environment, immigration, fictional representation of women, and the south. Students will produce short samples of their own critical and creative writings. Oral presentations provide the opportunity to situate literary texts and films within a broader historical, cultural, and literary context. *Prerequisite:* Italian 128 or equivalent. *Four credit hours.*

IT141f Existential Italy In this discussion-intensive course, we will explore the most enduring topics of Italian culture: the nature of love, the role of the artist in society, and the experience of time and death. Students will learn about different artistic genres (lyric poetry, short story, novel, film, contemporary song) and hone analytic skills and writing (rhetorical figures, form-content, stylistics). Students will become familiar with key periods of Italian culture and famous authors (Dante, Boccaccio, Petrarch, Leopardi, Montale, Moravia, Maraini, Deledda, Calvino). In Italian. *Prerequisite:* Italian 128 or equivalent. *Four credit hours.* L KRIESEL

[IT151] A Cinema of Social Conscience (in English) Many films owe a debt to the radical sociopolitical and artistic mandates of Italian neorealism. A survey of Italian cinema since World War II, emphasizing the neorealist movement and its influence on subsequent filmmakers. Readings and discussions situate films within their social and historical contexts, from the partisan resistance movement of World War II and economic boom of the postwar years to the terrorism of the '70s and '80s and the corruption scandals that plague Italy today. The elements and strategies of film as a medium are also explored in weekly readings, discussions, and analyses. Taught in English. Films screened in Italian with English subtitles. *Four credit hours.* A, I

IT153j Modern and Contemporary Italian Fiction in Translation in Verona Held in Verona, Italy, a close study of six authors whose work spans the 20th century, including Silvia Bonucci's *Voices from a Time*, Cesare Pavese's *The Moon and the Bonfires*, Leonardo Sciascia's *To Each His Own*, and Giuseppe Lampedusa's *The Leopard*. Field trips to Venice and Italian cultural centers around Verona. Written work required: three analytical papers. Cost: \$3,300. *Three credit hours.* L BRANCACCIO

IT235fs Italian Conversation An informal, weekly, small-group meeting for conversation practice, led by the Italian language assistant. Topics will vary, to include everyday life experience, contemporary culture and media, and literature. Conducted in Italian. May be repeated for credit. *Prerequisite:* Italian 127 (may be taken concurrently) or prior study-abroad experience in Italy. *One credit hour.* LUCCI

[IT254] Dante's Divine Comedy (in English) Introduces Dante's *Divine Comedy* as an enduring work of poetry, a stunning portrait of medieval Europe, a foundational text of Western culture. Through close analysis we follow Dante's journey through the realms of the Christian afterlife, in which he voices the tension between God's perfect grace and man's free will but never gives up searching for truth and earthly justice. A committed citizen facing exile from his city of Florence, a man of faith criticizing contemporary church-state relations, a poet seeking fame, Dante chants the glories of his time but also exposes the dark side of his civilization, confronting issues still relevant. Conducted in English; no knowledge of Italian required. *Four credit hours.* L

IT255s Modern Classics, Italian Style An overview of some of the most relevant and interesting texts (visual, cinematic, literary, and musical) of the 20th century, while strengthening the linguistic skills acquired so far. We will begin with Futurismo, the first of the historical avant-gardes, an artistic movement that originated in Italy and set out to change everything: music, theater, literature, painting, sculpture, and food. Every week students will engage a different text, from pop music to cinema and literature, learning how to appreciate its history and to enjoy its beauty. *Prerequisite:* Italian 128. *Four credit hours.* L RIZZO

IT257s Renaissance Heroes: Knights, Giants, and Gypsies (in English) Beginning with the *Chanson de Roland*, late medieval and Renaissance epic poetry has told the stories of mighty knights, their loves, their deeds, and their arms. An introduction to this remarkable corpus of literature, tracing its evolution across different centuries and different languages, with a particular focus on its comic components. Reading assignments will include passages from Boiardo, Ariosto, Pulci, Folengo, Rabelais, and Cervantes. Taught in English. *Four credit hours.* L RIZZO

[IT262] Outsiders, Losers, Rejects: Topics in Italian Cultural Studies Italy's history is characterized by tensions: north/south, periphery/center, church/state, native/foreigner to name several. In a nation often viewed as divided, questions about identity, tradition, and the "other" are hotly debated. We will address these issues through topics in cultural studies: politics, law, gender, immigration, religion, etc. Study of short stories and film will hone skills in textual and film analysis and develop critical thinking. Authors/directors: Verga, Pirandello, Moravia, Primo Levi, Deledda, Rossellini, Ginzburg, Calvino, Maraini,

Pasolini, Benni, Amelio. In Italian. *Prerequisite:* Italian 131 or equivalent. *Four credit hours.* L, I

[IT361] Love, Sex, and Romance in Italy In the Middle Ages and Renaissance, the concept of love played a fundamental role in every field of study: for example, cosmology, linguistics, literary theory, medicine, and theology. Students will study the manner in which premodern authors theorized love by analyzing literary texts of a variety of genres (e.g., lyric poetry, epic, short story), as well as other media (e.g., painting, music, architecture). Authors to be studied include Dante, Petrarch, Boccaccio, Lorenzo de' Medici, Ariosto, and Bembo. *Prerequisite:* Italian 237 or equivalent. *Four credit hours.* L

IT372f Boccaccio and Petrarch: Birth of Modernity Boccaccio and Petrarch lived at a revolutionary moment in Italian history, at the dawn of modernity (e.g., vast cultural explosion, increasing globalization and democracy, crisis of political-religious authority). We will examine how these two colleagues responded to and helped create a new world that often resembles our own, as well as how they considered the major debates of the day: the relationship between secular and religious, past and present, elite and popular, and the self and God. Texts to be studied include the *Decameron*, *Canzoniere*, *Corbaccio*, *Secretum*, and letters. In Italian. *Prerequisite:* Italian 131 or equivalent. *Four credit hours.* L KRIESEL

[IT375] Comedy, Italian Style: The Golden Age of Italian Film Comedy Traces the evolution of the film comedy across three decades of Italian cinematic life through the lens of the *commedia all'italiana* (Italian-style comedy, 1950s-1970s). Beyond their ability to entertain, these popular comedies also served as a crucial means for exploring via humor the social and political upheaval unfolding throughout Italy during this historical period. Skills of critical analysis will be honed through readings on the history and theory of cinema and screenings of films by such celebrated directors as Fellini, De Sica, Monicelli, Germi, Wertmüller, and others. *Prerequisite:* Italian 237. *Four credit hours.* A

IT491f, 492s 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

JANUARY PROGRAM

January Program options include courses for credit, independent study, internships, noncredit courses, and faculty-led courses abroad.

Selected courses offered in January may be used to fulfill the January Program requirement, which is described in the Academic Policies section. A complete list of offerings is available through the Curriculum Search link on the registrar's website in October, when students elect a course for the January term. Enrollment is limited to 30 or fewer students in nearly all courses. First-year students have priority in all noncredit and 100-level courses unless otherwise indicated.

A more complete description of the January Program with material about previous Jan Plan activities is online. An online list of Jan Plans is updated each year during the fall semester.

Most courses to be offered in January are described under the sponsoring academic department or program in this catalogue along with the regular semester offerings (a "j" following the course number indicates a January Program course). Some courses, however, are independent of any specific department and can be found by searching for "JP" courses in "Curriculum Search" on the registrar's website.

Examples of such Jan Plans offered in recent years include Emergency Medical Technician Training, Mindfulness, Furniture Making, Blacksmithing, and Premed Academy.

Course Offerings

AA297j Critical Race Feminisms and Tap Dance *Three credit hours.* A, U THOMAS

AD231j Introduction to Financial Decision Making *Three credit hours.* LARGAY

AM117j Fundamentals of Screenwriting *Two credit hours.* WILSON

AM368Jj Great Books by American Women of Color: from Hurston to Danticat *Three credit hours.* L, U MANNOCCHI

AM483Jj Senior Honors Project *Noncredit.* ARELLANO

AN145j Between Revolution and Tradition: Julius Caesar and Augustus *Two credit hours.* J. ROISMAN

AR114j Pottery *Two credit hours.* N. MEADER

AR117j Introduction to Art Conservation and Preservation *Two credit hours.* ROTH-WELLS

- AR134j** **Creating Your Own Photographic Book** *Two credit hours.* GREEN
- AR151j** **Art of the Monotype: Methods for Painterly Printmaking** *Two credit hours.* MITCHELL
- AR293j** **Asian Museum Workshop: Asian-American Art at Colby** *Three credit hours.* WEITZ
- AY119j** **The Anthropology of Utopias** *Three credit hours.* S HRISKOS
- AY297j** **The New African Americans** *Three credit hours.* BESTEMAN
- BI118j** **Sustainable Agriculture and Food Systems** *Three credit hours.* N MARSHALL
- BI152j** **Human-Microbe Connection** *Prerequisite:* Students with prior credit for Biology 133 or 248 may not receive credit for Biology 152. *Three credit hours.* N CHILDERS
- BI265j** **Introduction to Human Anatomy and Physiology** *Prerequisite:* Biology 131 or 163 or equivalent. *Three credit hours.* N KLEPACH
- BI287j** **Impact of Climate Change on Ocean Life** *Three credit hours.* N EMERSON
- BI297j** **Diversity and Function of Life in Marine Ecosystems** *Prerequisite:* Biology 131 or 163. *Three credit hours.* N COUNTWAY
- BI358j** **Ecological Field Study in Belize** *Three credit hours.* COLE, RUEGER
- BI474j** **Neuroscience Research** *Prerequisite:* Biology 274 and permission of the instructor. *Three credit hours.* TILDEN
- CH151j** **K-8 Chemistry Outreach Activities** *Prerequisite:* Chemistry 112 with laboratory or 118 with laboratory or 141. *Three credit hours.* N MILLARD, MILLER
- CH255j** **Nuclear Magnetic Resonance** *Prerequisite:* Chemistry 241. *Three credit hours.* SHATTUCK
- CH297j** **Green Chemistry** *Prerequisite:* Chemistry 241. *Three credit hours.* HUDSON
- CI215j** **The Image of Women and Men in American Film** *Prerequisite:* First-year standing. *Three credit hours.* EISEN
- CI251j** **History of International Cinema I** *Three credit hours.* A KELLER
- CI297j** **Short-Form Digital Storytelling** *Three credit hours.* MURPHY
- CL145j** **Between Revolution and Tradition: Julius Caesar and Augustus** *Two credit hours.* J. ROISMAN
- CL197j** **Introduction to Greek and Roman Archaeology** *Three credit hours.* H CRAWFORD
- EA275Jj** **Cultured Tough Guys: Samurai Devotion, Music, Poetry, and Art** *Three credit hours.* A NUSS
- EC197j** **Global Financial Markets** *Three credit hours.* ATKINSON
- ED135j** **Multicultural Literacy** *Prerequisite:* First-year standing. *Three credit hours.* U FACULTY
- ED221j** **Creating Media for Social Change** *Three credit hours.* PIERCE
- ED351Jj** **Practicum in Education** *Prerequisite:* Permission of the instructor and at least one course in Education. *Three credit hours.* FOWLER
- ED437j** **Student Teaching Practicum** *Prerequisite:* Education 433. *Three credit hours.* KUSIAK
- EN151Jj** **Reading and Writing About Literature** *Three credit hours.* L,W1 N. HARRIS
- EN162j** **Creating Fiction from Life Stories** *Three credit hours.* A CONLEY
- EN174j** **Introduction to Public Speaking** *Two credit hours.* DONNELLY

EN238j Art of Fly Fishing: Maine and Bishop, California *Prerequisite:* Permission of instructor. *Three credit hours.* L SUCHOFF

EN251j History of International Cinema I *Three credit hours.* A KELLER

EN279Jj Poetry Writing I *Prerequisite:* English 115 or equivalent. *Three credit hours.* A P. HARRIS

EN351j Contemporary American Poetry *Prerequisite:* English 120 or 172. *Three credit hours.* L SADOFF

EN368Jj Great Books by American Women of Color: from Hurston to Danticat *Three credit hours.* L, U MANNOCCHI

EN397j Multiethnic American Literature *Prerequisite:* English 115 or equivalent. *Three credit hours.* L BURKHART

EN413Hj Author Course: Henry James and Edith Wharton *Three credit hours.* L STUBBS

ES143j Sustainable and Socially Responsible Business *Three credit hours.* PENNEY

ES151j Landscapes and Meaning: An Exploration of Environmental Writing *Three credit hours.* L MACKENZIE

ES265j Global Public Health *Prerequisite:* Environmental Studies 118 or one course in the natural sciences. *Three credit hours.* I CARLSON

ES287j Impact of Climate Change on Ocean Life *Prerequisite:* One semester of mathematics or science; a biology course is highly recommended. *Three credit hours.* N EMERSON

ES297Bj Diversity and Function of Life in Marine Ecosystems *Three credit hours.* N COUNTWAY

ES358j Ecological Field Study in Belize *Prerequisite:* Environmental Studies 118, or Biology 131 or 164, and permission of the instructor. *Three credit hours.* COLE, RUEGER

FR127Jj French III (Paris) *Prerequisite:* French 126 or equivalent. *Three credit hours.* DAVIES

GE297j Hydrogeology *Prerequisite:* Geology 141 or 146, and Mathematics 121 or 122. *Three credit hours.* MORIN

GM151j Dungeons and Dragons: The Middle Ages in German Literature (in English) *Three credit hours.* L H. KOCH

GO113j Overview of the U.S. Legal System *Three credit hours.* LEE

GO116j News Literacy *Three credit hours.* OFFER

GO197j Information Use and Misuse: Big Data in America *Three credit hours.* KUGELMEYER

GO216j Political Rhetoric *Three credit hours.* REISERT

GO297j Legal Writing and Legal Argument: Through and After Law School *Three credit hours.* HIGGINS

GO397j Politics of Natural Resources *Three credit hours.* S SEAY

GO483Jj Honors Workshop *Noncredit.* MAISEL, REISERT

GS483Jj Honors in Global Studies *Noncredit.* FRANKO

HI275j Strongmen and Populism in Modern Spain and Latin America *Three credit hours.* H, I FALLAW

IM483Jj Independent Major Honors Program *Noncredit.* TAPPAN

IT125Jj Italian I in Siena *Three credit hours.*

IT153j Modern and Contemporary Italian Fiction in Translation in Verona *Three credit hours.* L BRANCACCIO

JP002j Emergency Medical Technician Training Basic life support skills. An introduction to patient assessment skills

including training in the maintenance of intravenous lines and use of automatic external defibrillation devices as required by the Maine Office of Emergency Medical Services for licensure at the basic EMT level. Meets National Standard Curriculum for EMT - Basic Education. Supplemental cost of \$720 covers materials, uniform shirt, and a required CPR course, but not text and workbook. Students are required to wear the uniform shirt and dark blue chinos to class. In addition, there is a national registry fee of \$70. Students are required to find their own transportation to off-campus clinical sites in Waterville, including the emergency department. *Prerequisite:* Due to limited space, please submit a paragraph stating the reasons you want to take this class to Jennifer Riddle FNP, jgriddle@colby.edu. *Noncredit.* RIDDLE

JP003j Premed Academy Students will be paired with MaineGeneral-affiliated physicians in the Waterville area for intensive job shadowing and clinical observation. They will also develop and complete a project of benefit to the practice of the supervising physician and spend time reflecting on their experiences through group discussions centered on relevant readings. Previously offered as JP097 (January 2011). *Prerequisite:* Biology 163 and 164, or Chemistry 141 and 142, or 145; sophomore or higher standing; and significant interest in medicine as demonstrated through previous volunteer work or job shadowing. *Noncredit.* BERKNER

JP006j Furniture Making An introduction to the basic techniques and design skills that will enable students to create fine furniture. Hand- and power-tool techniques taught in a well-equipped shop at the Colby-Hume Center. \$100 lab fee. *Prerequisite:* Permission of the instructor. Contact Daniel Camann at djcamann@colby.edu *Noncredit.* CAMANN

JP007j Blacksmithing An intensive introduction to the fundamental processes involved in forging and forming iron (steel). Primary focus will be the development of the skills and understanding necessary to complete assigned exercises using fire, hammer, and anvil. Students will also work individually with the instructor to design and execute a final project. Materials fee: \$100. *Prerequisite:* Prospective students should submit a brief essay outlining their interest in the course to the instructor, Steve Murdock, at scmurdock@uninets.net. Final selection will be by personal interview. *Noncredit.* MURDOCK

JP021j Integrating Mindfulness into Work, Health, Play, Relationship Mindfulness is the study and practice of paying attention to what is happening right here, right now, before judgment, and responding to the situation from the place of balance and center rather than reacting from old patterns. We will study the history and neuroscience research of mindfulness with emphasis on techniques for everyday life. With lightheartedness we will study the mind/body connection. Our study and practice comes from the work of Nancy Hathaway, founder of the Center for Studying Mindfulness, and Jon Kabat-Zinn, founder and director of the Mindfulness Program at the University of Massachusetts Medical Center. Nongraded. Previously offered as JP097 (January 2013). *Noncredit.* HATHAWAY

JP136j Introduction to Behavioral Medicine Basic health psychology theory and principles applied to health-care settings and the influence of stress on health and disease. Topics include an overview of the influence of behavior on health and health-care consumer behavior, and the development and dissemination of evidence-based behavioral and cognitive interventions that improve health outcomes. Interventions range from prevention to end-of-life care. Students will complete a class presentation, readings, quizzes, class discussion, and a final paper. Previously offered as JP197 (January 2013). *Prerequisite:* Biology 163 or Psychology 111. *Two credit hours.* FERGUSON

JS097j Kitchen Judaism: Jewish Identity Formation Through Cooking *Noncredit.* WEISS

JS121j Entartete (Degenerate) Musik *Three credit hours.* A, I SILVER

JS387j Jews and Muslims in Christian Thought *Three credit hours.* FREIDENREICH

LA275j Strongmen and Populism in Modern Spain and Latin America *Three credit hours.* H, I FALLAW

MA102j Calculus with Pre-calculus II *Prerequisite:* Mathematics 101. *Three credit hours.* Q WELCH

MU091j Lessons: Noncredit (or January Program) *Noncredit.* FACULTY

MU114j Jazz Improvisation *Prerequisite:* Ability to sing or play major scales. *Three credit hours.* A THOMAS

MU118j African Music *Three credit hours.* A BENISSAN

MU121j Entartete (Degenerate) Musik *Three credit hours.* A, I SILVER

MU197j Music Industry Seminar *Three credit hours.* RENARD

MU275j Cultured Tough Guys: Samurai Devotion, Music, Poetry, and Art *Three credit hours.* A NUSS

PH416j Physics and Astronomy Research *Prerequisite:* Physics 415. *One or two credit hours.* FACULTY

- PL212j Philosophical Paradoxes** *Three credit hours.* COHEN
- PS234j Theories of Learning** *Prerequisite: Psychology 111. Three credit hours.* YETERIAN
- PS483Jj Honors Research I** *Noncredit.* COANE
- RE121j Catholic Church and Hollywood** *Three credit hours.* H, U CAMPBELL
- RE277j Religious Responses to Harry Potter** *Three credit hours.* PUKKILA
- RE297j Religious Influences of the Rev Martin Luther King Jr.** *Three credit hours.* U NELSON
- RE387j Jews and Muslims in Christian Thought** *Three credit hours.* FREIDENREICH
- RU113j The Literature and Art of St. Petersburg** *Three credit hours.* MONASTIREVA-ANSDELL
- RU114j Russia's Transition Economy** *Three credit hours.* MONASTIREVA-ANSDELL
- RU115j Russian Ethnography** *Three credit hours.* MONASTIREVA-ANSDELL
- RU125Jj Elementary Russian I** *Three credit hours.* MONASTIREVA-ANSDELL
- SO219j Self and Society in the Digital Age** *Three credit hours.* S MAYER
- SO361j Special Topics in Health and Medicine: Substance Use and Abuse** *Prerequisite: A lower-level social science course. Three credit hours.* ARCHIBALD
- SP483Jj Senior Honors Thesis** *Noncredit.* ALLBRITTON
- SR492Jj** *Noncredit.* MAZZEO
- ST297Bj The Automobile in American Life** *Three credit hours.* REICH
- ST297Jj Democracy and Technology in the Contemporary World** *Three credit hours.* KASPERSKI
- ST361j Special Topics in Health and Medicine: Substance Use and Abuse** *Three credit hours.* ARCHIBALD
- TD013j Introduction to the Alexander Technique** *Noncredit.* SIEGLER
- TD064Cj Applied Performance/Production: *Bloody Bloody Andrew Jackson*** *Prerequisite: Audition. Noncredit.* COULTER
- TD131j Theater Production** *Three credit hours.* A ERVIN
- TD197Jj Acting Wilde: British Stage Dialect** *Three credit hours.* WEINBLATT
- TD264Cj Applied Performance/Production: *Bloody Bloody Andrew Jackson*** *Prerequisite: Auditions on October 7-8 at 6 pm. Contact Todd Coulter (tcoulter@colby.edu) for more information. Three credit hours.* A COULTER
- WG297j Critical Race Feminisms and Tap Dance** *Three credit hours.* A, U THOMAS

JAPANESE

In the Department of East Asian Studies.

Chair, Associate Professor Hong Zhang (Chinese)

Professor Tamae Prindle; Associate Professor Hideko Abe; Visiting Faculty Fellow Yumiko Naito; Language Assistant Risa Fujiwara

A minor in Japanese is offered for students who have a substantial interest in Japanese language and culture.

Requirements for the Minor in Japanese

Five language courses of at least three credits each at the level of Japanese 126 or above, and one more course with a substantial literary/cultural component to be chosen from either Japanese 421, 422, or a course on Japanese literature/culture at the 200 level or higher (Japanese literature/culture courses are listed in the "East Asian Studies" section of the catalogue). Students who start taking Japanese from an upper level are expected to take at least four language courses probably including 421, 422, and independent study 491 and 492.

Note: The minor in Japanese is intended for non-East Asian studies majors. East Asian studies majors must declare either a Chinese concentration or a Japanese concentration within the major.

Course Offerings

JA125f Elementary Japanese I Introduction to the spoken and written language to provide a solid grounding in all the language skills: speaking, listening, reading, and writing. Students will have a comfortable command of hiragana, katakana, and basic sentence patterns and will become familiar with about 60 kanji and their combinations. *Five credit hours.* NAITO

JA126s Elementary Japanese II Introduction to the spoken and written language to provide a thorough grounding in all the language skills: speaking, listening, reading, and writing. *Prerequisite:* Japanese 125. *Five credit hours.* NAITO

JA127f Intermediate Japanese I A continuation of the methods and goals used in elementary Japanese. *Prerequisite:* Japanese 126. *Four credit hours.* ABE

JA128s Intermediate Japanese II Designed for students who have taken three semesters of Japanese. All four components of language skills—speaking, writing, reading, and listening—are simultaneously introduced and practiced in every class, and emphasis is placed on balancing accuracy, fluency, and complexity. Enables students to function in various social contexts using culturally appropriate linguistic skills and knowledge, including honorifics and speech levels. *Prerequisite:* Japanese 127. *Four credit hours.* ABE

JA135fs Conversational Japanese I In a small group setting, students practice speaking. Nongraded. *Prerequisite:* Concurrent enrollment in Japanese 125 or 126. *One credit hour.* FUJIWARA

JA235fs Conversational Japanese II In a small group setting, students practice speaking. Nongraded. *Prerequisite:* Concurrent enrollment in Japanese 127 or 128. *One credit hour.* FUJIWARA

JA321f Third-Year Japanese Advanced reading, audiovisual comprehension, writing essays in Japanese, speaking at a native speaker's level, and an introduction to Japanese culture. *Prerequisite:* Japanese 128. *Four credit hours.* ABE

JA322s Third-Year Japanese Advanced reading, audiovisual comprehension, and writing practice in Japanese. Designed primarily for those students who have had substantial experience in a Japanese-speaking setting. *Prerequisite:* Japanese 321. *Four credit hours.* ABE

JA335fs Conversational Japanese III In a small group setting, students practice speaking. Nongraded. *Prerequisite:* Concurrent enrollment in Japanese 321, 322, 421, or 422. *One credit hour.* FUJIWARA

JA421f Fourth-Year Japanese Further reading, writing, listening, and speaking in Japanese, using current newspaper articles, short stories, and audiovisual materials. *Prerequisite:* Japanese 322. *Four credit hours.* NAITO

[JA422] Fourth-Year Japanese A continuation of Japanese 421 for students who have taken seven semesters of Japanese. Language practice includes reading short stories and newspaper articles, giving oral presentations on topics related to Japanese culture, learning another 150 Chinese characters, mastering the use of various types of dictionaries and online supports, and learning the structure of kanji radicals. All class activities are conducted only in Japanese. *Prerequisite:* Japanese 421. *Four credit hours.*

JA462s Japanese Culture through TV Drama Advanced Japanese language with a focus on TV dramas through which students learn colloquial speech patterns in different social contexts. Special attention is paid to different speech levels (casual to formal) by speakers of different ages, social status, gender, and regions. TV dramas range from romantic stories to political as well as business stories, all of which deal with different social issues. Students are required to (1) understand the content of the drama, (2) discuss specific themes found in the drama, and (3) write a response paper in Japanese about the drama. *Prerequisite:* Japanese 321. *Four credit hours.* NAITO

JA491f, 492s 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

JEWISH STUDIES

Director, Professor Raffael Scheck

Program Steering Committee and Faculty: Professors Véronique Plesch (Art), Raffael Scheck (History), and Robert Weisbrot (History); Associate Professors David Freidenreich (Jewish Studies) and John Turner (History); Assistant Professor Audrey Brunetaux (French); Visiting Instructor Rachel Isaacs (Jewish Studies)

Program Affiliated Faculty: Professors Guilain Denoeux (Government) and David Suchoff (English); Visiting Assistant Professor Phillip Silver (Music)

The Jewish Studies Program, in the Division of Interdisciplinary Studies, is an academic program whose core mission is to educate students in the breadth and complexities of Jewish history, religion, politics, and culture and to situate this learning in the larger context of their liberal arts education. Jewish studies courses engage students of all backgrounds in diverse aspects of Jewish civilization and address themes as divergent as identity formation, prejudice, and intercultural relations. Through the minor in Jewish studies, the program offers students an opportunity to take courses in several disciplines of the humanities and social sciences, including religious studies, history, government, French, and music.

As the only program of its kind in Maine, Jewish studies seeks not only to educate Colby students but also to provide public programming to members of the Maine community through its curricular and co-curricular activities. Though a major in Jewish studies is not offered, interested students are encouraged to consult the director about an independent major.

Requirements for the Minor in Jewish Studies

A minimum of six courses, including two core courses (Religious Studies 181 and 182) and four other courses in Jewish studies that are approved for the minor. Jewish Studies 125 does not count toward the minor.

Successful completion of the minor requires a 2.00 average for all requirements above. None of the required courses may be taken satisfactory/unsatisfactory.

Courses listed below are described in the appropriate department sections of this catalogue.

Courses Approved for the Minor in Jewish Studies

French

- 376 Shadows of the Past: Remembering Vichy France and the Holocaust

Government

- 251 Israelis and Palestinians: Conflict and Accommodation
- 252 Politics of the Middle East

History

- 421 Research Seminar: Debating the Nazi Past

Music

- 121 *Entartete* (Degenerate) *Musik*

Religious Studies

- 143 Introduction to the Hebrew Bible/Old Testament
- 181 Conceptions of Jews and Judaism
- 182 Jews, Judaism, and the Modern World
- 219 Texts of Terror: Violence and the Religions of the Book
- 221 Topics in Maine's Jewish History
- 322 Food and Religious Identity
- 384 Jewish Responses to Ethical Dilemmas

For updates to the list of courses approved for the Jewish studies minor and courses offered in the 2013-2014 academic year, refer to the Jewish Studies Program's website.

Course Offerings

JS097j Kitchen Judaism: Jewish Identity Formation Through Cooking How does food—and more specifically, the act of cooking—shape identity? Meeting in Beth Israel congregation's kitchen in Waterville, we will examine Jewish dietary laws and history before cooking dishes from a range of geographically diverse Jewish cuisines. Students will read food-related memoir and first-person accounts, and each session will begin with a roundtable conversation and brief lecture. After that, we hit the kitchen!
Noncredit. WEISS

JS120f Personal Writings about God Listed as Religious Studies 120. *Noncredit.* **W1** FREIDENREICH

JS121j Entartete (Degenerate) Musik Listed as Music 121. *Three credit hours.* **A, I** SILVER

JS125f Hebrew I The first of three consecutive courses designed to develop fluency and accuracy in Modern Hebrew. Through an interactive approach to language learning, students gain communicative proficiency and a greater understanding of Israeli society. Videos, audio, and Web materials introduce students to the nuanced and rich connections between Hebrew and Jewish culture in Israel and around the world. *Three credit hours.* ISAACS

JS126s Hebrew II The second of three consecutive courses designed to develop fluency and accuracy in Modern Hebrew. Students will deepen their knowledge of Hebrew grammar and further develop the facilities for written and oral communication in Hebrew. Delves more deeply into Israeli culture through media and literature. *Prerequisite:* Jewish Studies 125 or equivalent. *Three credit hours.* ISAACS

JS127f Hebrew III The third of three consecutive courses designed to develop fluency and accuracy in Modern Hebrew. Students will deepen their knowledge of Hebrew grammar and further develop the facilities for written and oral communication in Hebrew. Delves more deeply into Israeli culture through media and literature. *Prerequisite:* Jewish Studies 126 or equivalent. *Three credit hours.* ISAACS

JS143f Introduction to the Hebrew Bible/Old Testament Listed as Religious Studies 143. *Four credit hours.* **L** MANDOLFO

JS181f Conceptions of Jews and Judaism Listed as Religious Studies 181. *Four credit hours.* **H, I** FREIDENREICH

JS182s Jews and Judaism in the Modern World Listed as Religious Studies 182. *Four credit hours.* **H, I** FREIDENREICH

[JS221] Topics in Maine's Jewish History Listed as Religious Studies 221. *Three credit hours.* **H, U**

[JS224] Jewish Theology An introduction to the multiple Jewish answers to life's big questions. We will explore how to live the good life, the role of God in determining our fate, the meaning of suffering in our lives, and the relationship between politics and faith. We will interrogate ideas found in the Hebrew Bible, Jewish liturgy, rabbinic texts, and the works of modern thinkers such as Hermann Cohen, Mordecai Kaplan, Abraham Joshua Heschel, Martin Buber, Franz Rosenzweig, and Abraham Isaac Kook. *Three credit hours.*

JS251s Israelis and Palestinians: Conflict and Accommodation Listed as Government 251. *Four credit hours.* **S, I** DENOEUX

JS252f Politics of the Middle East Listed as Government 252. *Four credit hours.* **I** DENOEUX

[JS322] Food and Religious Identity Listed as Religious Studies 322. *Four credit hours.* **S**

[JS376] Shadows of the Past: Remembering Vichy France and the Holocaust Listed as French 376. *Four credit hours.* **L, I**

[JS384] Jewish Responses to Ethical Dilemmas Listed as Religious Studies 384. *Four credit hours.*

JS387j Jews and Muslims in Christian Thought Listed as Religious Studies 387. *Three credit hours.* FREIDENREICH

JS421s Research Seminar: Debating the Nazi Past Listed as History 421. *Four credit hours.* **H, I** SCHECK

JS491f, 492s Independent Study *One to four credit hours.* FACULTY

LATIN

In the Department of Classics.

The Classics Department offers courses listed in this catalogue under "Ancient History," "Classics," "Greek," and "Latin."

Course Offerings

LT111f Introductory Latin Latin was the language of Virgil, Ovid, Cicero, and Tacitus, giants in the Western literary tradition, and, for centuries Latin remained the lingua franca of the educated. It also gave rise to the Romance languages and to a vast proportion of English vocabulary. Combines lucid explanations of grammar with cultural information and readings in simplified Latin of major classical texts. *Four credit hours.* BARRETT

LT112s Intermediate Latin The history, literature, and culture of the Western tradition can be traced through Rome, and

many of the great ideas and texts of the ancient and premodern world were formulated in Latin. Builds on the foundations laid in Latin 111. Learning goals include continuing the assimilation of Latin grammar and syntax, equipping students with the tools to read Rome's greatest authors in their original tongue, and fostering greater familiarity with broader Roman culture. *Prerequisite:* Latin 111. *Four credit hours.* BARRETT

LT131f Introduction to Latin Literature Having mastered Latin grammar and syntax, students now take on the challenges and rewards of reading an unsimplified Latin text. They will learn to translate most Latin texts with the aid of a dictionary, to accomplish a literary, historical, and cultural analysis of any complex text, and to satisfy the rigorous requirements of a demanding work schedule. *Prerequisite:* Latin 112, or appropriate score on the College Board Latin SAT Subject Test, AP Latin exam, or placement test administered during new student orientation. *Four credit hours.* L O'NEILL

[LT232] Catullus and Tibullus In works ranging from brief epigrams to epyllia, from impassioned love poems to scurrilous abuse, Catullus demonstrates his mastery of meter, mythology, and language. His poems about the beautiful Lesbia provided a model for the elegiac poets to follow, while his long poems demonstrate the learning of this scholar-poet. Whether bitterly assailing a false friend or tearfully bidding farewell at his brother's graveside, Catullus exhibits a mastery of poetic language. Tibullus is a poet of deceptive complexity who writes exclusively in the elegiac meter but shares many themes with Catullus: love, death, and passion in between. *Prerequisite:* Latin 131. *Four credit hours.* L

[LT233] Apuleius: Africa's Naughty Genius Apuleius's life is as fascinating as his writing. His origins in Africa and his post-classical dates have left him on the margins of the classical canon, but his ribald wit, his narrative flair, and his inventive genius make him well worth reading. We shall read his account of the Festival of Laughter from *The Golden Ass*, paying special attention to his debt to Satire and Aristophanic Comedy. *Prerequisite:* Latin 131. *Four credit hours.* L

LT251f Ovid and the Censored Voice Ovid is perhaps the most famous victim of censorship in classical antiquity, but even banishment could not silence him. We will read selections from the *Metamorphoses*, *Tristia*, and *Ars Amatoria* that explicitly address the suppression of the poet's speech, figuratively present the poet's response to censorship, or possibly constitute the reason for his exile. Through reading Latin texts and secondary literature, and performing original research, students will develop familiarity with the genius of Ovid. They will enhance their abilities in language; literary, historical, and cultural analysis; and oral and written communication. *Prerequisite:* Latin 131, or appropriate score on the College Board Latin SAT Subject Test, AP Latin exam, or a higher level Latin course. *Four credit hours.* L O'NEILL

[LT271] Horace's Epodes: Lampoons and Blame Poetry Horace is one of Rome's greatest and most influential poets, but often textbooks focus on his blandest poems for fear of offending anyone. Selections from *The Epodes*, a book of often scurrilous abuse in poetic form, focusing in particular on his poems about civil strife, political and physical impotence, and witchcraft. *Prerequisite:* Latin 131. *Four credit hours.* L

[LT341] Sacred Rites and Erotic Magic: Propertius 4 An analysis of the two, rival poetic programs of Propertius 4: how "patriotic" poems become erotic manifestos, and how sacred rites are profaned by erotic ritual. *Prerequisite:* Latin 131. *Four credit hours.* L

[LT354] Seneca's Medea This Roman version of Medea's terrible revenge on the guilty and innocent alike warns us that injustice begets injustice and asks how divine power can permit evil to triumph. The play draws on contemporary dilemmas of imperial Rome but explores them in the safe context of a Greek tragedy. Learning goals include enhanced analytical skills, improved translation abilities, and improved written, oral, and visual communication skills. *Prerequisite:* Latin 131 or higher-level course. *Four credit hours.* L

LT357s Myth and History at Rome: Cicero's De Re Publica Set in 129 BCE and written in the late 50s BCE, Cicero's *De Re Publica* is a dramatic dialogue like those of Plato. Addressing the ideal state, it contains both Scipio Aemilianus's dream of the afterlife and an account of early Roman history, from Romulus and Remus to the early kings. Triangulating these three historical periods—early Rome, the late 2nd century, and the mid-1st century—the dialogue poses questions about Rome's origins as a key to Roman identity, the role of Greece in Roman self-fashioning, the representation of the past in Roman political discourse, aristocratic values in crisis, and philosophy as a form of politics. *Prerequisite:* Latin 131. *Four credit hours.* L BARRETT

[LT362] Lovers, Exiles, and Shepherds: Virgil's Eclogues *The Eclogues* have exerted a tremendous influence on later poets across Europe and the Americas. Virgil's bucolic poetry draws on ancient learning, contemporary politics, and his own artistic sensibility. *Prerequisite:* Latin 131 or higher-level course. *Four credit hours.* L

LATIN AMERICAN STUDIES

Director, Professor Luis Millones

Appointment in Latin American Studies: Associate Professor Ben Fallaw

Affiliated Faculty: Professors Patrice Franko (*Economics and Global Studies*), Luis Millones (*Spanish*), and Jorge Olivares (*Spanish*); Associate Professor Betty Sasaki (*Spanish*); Assistant Professors Emma Garcia (*Spanish*), Lindsay Mayka (*Government*), and Winifred Tate (*Anthropology*)

The Latin American Studies Program provides students with the opportunity to deepen their understanding of this fascinating, complex region of the world. The interdisciplinary program collaborates with the departments of Anthropology, Government, History, and Economics. Through the integration of a variety of approaches to the study of the region, majors explore both historical and contemporary social, political, and economic issues, tensions, and inequalities that challenge the area, while also attaining an awareness of and appreciation for the rich cultural diversity of Latin America. Study abroad, the biannual Walker Symposium, internships, independent research, and visiting scholars, artists, and activists enhance formal classroom learning, and Latin American studies graduates emerge as active global citizens capable of analyzing and articulating central issues affecting Latin America.

Requirements for the Major in Latin American Studies

A total of 11 courses, including Latin American Studies 173, 174, Spanish 135 and 231, two Latin American literature courses at the 200 level or above, three courses on Latin America at the 200 level or above in at least two disciplines in the social sciences, and either a fourth course in the social sciences of Latin America at the 200 level or above (no more than two in the same discipline total) or a Latino/a literature course at the 200 level or above, and one senior seminar or senior project.

Students must receive a grade of C or better for a course to count toward the major. No major requirements may be taken satisfactory/unsatisfactory. The point scale for retention of the major applies to all courses taken to fulfill the major.

Majors are required to spend at least one semester in Latin America matriculated in a program that offers university-level courses (not in a language acquisition program); all course work abroad must be conducted in either Spanish or Portuguese. All study-abroad plans must be approved by the director of the Latin American Studies Program. Students may count up to four semester courses of foreign study credit toward the major if they study abroad for an entire year, but only up to two semester courses if they study abroad for just one semester. Students with transfer credits should be advised that four semester courses, combining study abroad and credits from other institutions, is the maximum total permitted to count toward the Latin American studies major. A minimum grade point average of 2.70 is required for permission to study abroad. Prerequisites for study abroad include the completion of Spanish 135 and Spanish 231 (may be taken concurrently) with a grade of C or better.

Note: Students wishing to fulfill the advanced grammar requirement in Portuguese must enroll, after securing the approval of the director of the Latin American Studies Program, in either a one-semester language program abroad (which will not replace the study-abroad requirement) or in an intensive summer language program that certifies advanced proficiency.

Honors in Latin American Studies

Students majoring in Latin American studies with a 3.7 major average or better and 3.3 overall at the end of their fifth semester (including course work done abroad) may apply for admission to the honors program by May 30 of their junior year. Permission of the program director and faculty sponsor is required. It involves a year-long independent research project that replaces the senior seminar requirement. Successful completion of the work of the honors thesis and of the major will enable the student to graduate "With Honors in Latin American Studies."

Courses Approved for the Major in Latin American Studies

Anthropology

- 242 Anthropology of Latin America: City Life
- 236 Illegal Drugs, Law, and the State
- 361 Militaries, Militarization, and War

Economics

- 214 Economic Policy and Performance in Contemporary Latin America

Government

- 253 Latin American Politics
- 264 Challenges to Democracy in Latin America

Latin American Studies

- 173 History of Latin America
- 174 Introduction to Latin American Studies
- 272 History of Law, Society, and Rebellion in Mexico
- 274 Race, Religion, and Frontiers in Iberian-American Colonization
- 275 Strongmen and Populism in Modern Spain and Latin America
- 277 History of the Maya from 200 B.C.
- 473 Seminar: Historical Roots of Violence in Modern Latin America

Spanish

- 135 Introduction to Hispanic Literature
- 231 Advanced Spanish
- 265 The Short Novel in Spanish America
- 268 Latina/o Cultural Expressions in Literature and Film
- 273 Contemporary Spanish-American Short Story
- 276 U.S. Latina/Chicana Women Writers
- 338 Diasporic Imagination: Cubans Beyond Cuba

- 354 Detectives and Spies: Popular Culture in Spanish-American Fiction
- 371 The Colonial Experience: European and Amerindian Responses
- 493B Seminar: The Latina Body

Note: Additional courses, often taught by visiting faculty, may be available from time to time as temporary offerings and may be counted toward the major with permission of the Latin American Studies Program director.

Course Offerings

LA173f History of Latin America To understand the historical roots of Latin America's enduring tensions and conflicts, students discuss and analyze sources (especially primary ones), write several short historical essays, and research and present a historical drama. Themes include the first American civilizations, the construction of colonial hierarchies, frustrated modernizations (religious, socioeconomic, political), liberalism and conservatism, nationalism, neocolonialism, and social revolutions. *Four credit hours.* H, I FALLAW

LA174s Introduction to Latin American Studies Cross-disciplinary, historically-grounded introduction to modern Latin America, including developing the capability to analyze and articulate the underlying forces behind the region's historical problems and its common geographical and environmental features (i.e. frontiers, regionalism), politics, cultural features, and recurring socioeconomic structures (i.e. plantations, favelas). Historical themes include the Gilded Age of export-oriented liberal modernization, the construction of supposedly timeless national cultures during the "critical decades" of the 1920s and 1930s, urban populism and economic nationalism, the Cuban Revolution, and Cold War dictatorships. *Four credit hours.* H, I FALLAW

LA214s Economic Policy and Performance in Contemporary Latin America Listed as Economics 214. *Four credit hours.* I FRANKO

LA236f Illegal Drugs, Law, and the State Listed as Anthropology 236. *Four credit hours.* TATE

LA242s Anthropology of Latin America: City Life Listed as Anthropology 242. *Four credit hours.* TATE

LA253s Latin American Politics Listed as Government 253. *Four credit hours.* I MAYKA

LA264f Challenges to Democracy in Latin America Listed as Government 264. *Four credit hours.* S, I MAYKA

LA265s The Short Novel in Spanish America Listed as Spanish 265. *Four credit hours.* L OLIVARES

[LA268] Latino/a Cultural Expressions in Literature and Film Listed as Spanish 268. *Four credit hours.* L, U

[LA272] History of Law, Society, and Rebellion in Mexico We look beyond the clichéd image of the Mexican bandit to consider the complex economic, social, and political problems behind ruptures in the legal order from Aztec times to the present. Focusing on revolts, the social origins and political construction of crime, and state regulation of popular culture, we trace the outlines of the history of Mexico and consider how notions of legality vary across time and cultures. *Four credit hours.* H, I

[LA274] Race, Religion, and Frontiers in Iberian-American Colonization Topics include the medieval roots of Iberian expansion and the importance of religion and race in the Conquest; the institutional and social construction of colonial society, including Iberians' cultural baggage—notions of racial purity and piety and related ideas such as honor and hierarchy; decolonization, focusing on the struggle over abolition; and the persistence of Iberian notions of race and colonization in the Americas. *Three credit hours.* H, I

LA275j Strongmen and Populism in Modern Spain and Latin America A cross-disciplinary study of the historical factors behind the creation of Trujillo's dictatorship in the Dominican Republic, the rise of Getulio Vargas's *Estado Novo* in Brazil, the role of Zapata as an agrarian warlord in the Mexican Revolution, the failure of the Spanish Republic and the emergence of Franco's regime, and the crises that have brought populist regimes and *caudillos*, or charismatic strong leaders to power. *Three credit hours.* H, I FALLAW

[LA277] History of the Maya from 200 B.C. A multidisciplinary survey (archaeology, anthropology, sociology, literature, and history) of the trajectory of the Mayan peoples from the writing of the first known Maya glyphs (c. 200 B.C.) to the current conflicts in Chiapas and Guatemala. *Four credit hours.* H, I

LA338f The Diasporic Imagination: Cubans Beyond Cuba Listed as Spanish 338. *Four credit hours.* L OLIVARES

LA361s Militaries, Militarization, and War Listed as Anthropology 361. *Four credit hours.* S TATE

LA371s The Colonial Experience: European and Amerindian Responses Listed as Spanish 371. *Four credit*

hours. L MILLONES

LA456s Seminar: Civil Society and Social Change in Latin America Listed as Government 456. Four credit hours. S, I MAYKA

LA473f Historical Roots of Violence in Modern Latin America Why have Latin American nations experienced persistent violence? We examine historical roots of the violence from an interdisciplinary perspective. How do social, political, and cultural historians, as well as anthropologists, sociologists, political scientists, and psychologists, explain social and ethnic conflicts, domestic violence, torture, insurgencies, and counterinsurgencies, and dirty wars? Objectives include a response paper, in-class presentations, a critical book review, and a substantial (c.30 page) research paper, the first draft of which will be presented and critiqued in class. *Prerequisite:* A previous course on Latin America and permission of the instructor. Four credit hours. H, I FALLAW

LA483f, 484s Senior Honors Thesis A year-long research project for senior majors resulting in a written thesis to be publicly presented and defended. Students may register either for two credits in the fall, January, and spring terms or for three credits in the fall and spring terms. *Prerequisite:* a 3.3 or higher major average at the end of the junior year and permission of the Latin American studies advisory committee. One to four credit hours. FACULTY

LA491f, 492s Independent Study An independent study project devoted to a topic chosen by the student with the approval of an advisor. Only independent studies taken with a Colby faculty member and approved by the director of the Latin American Studies Program may count toward fulfilling major requirements. One to four credit hours. FACULTY

LA493s Seminar: The Latina Body Listed as Spanish 493. Four credit hours. L, U GARCIA

LA497f Senior Honors Seminar As the first seminar of the senior honors thesis, students write and (orally) defend a thesis proposal (mid-course) and the first chapter (end of term), as well as writing grant proposal for JanPlan and research plan for spring. Other major themes include interdisciplinary methods, archival research, interviewing and the IRB process, and reviewing scholarly literature in English, Spanish, and Portuguese. Students who fail to successfully defend their proposal in mid-October or the first chapter at the end of the semester will be given credit for a semester-long 4 credit independent study. Four credit hours. FALLAW

MATHEMATICS AND STATISTICS

Chair, Professor Fernando Gouvêa

Professors Fernando Gouvêa, Jan Holly, Leo Livshits, and Benjamin Mathes; Associate Professors Liam O'Brien and George Welch; Assistant Professors Otto Bretscher, Lu Lu, Andreas Malmendier, James Scott, and Scott Taylor; Faculty Fellow Justin Sukiennik; Instructor Richard Fuller

The Department of Mathematics and Statistics offers courses for students who: (1) plan a career in an area of pure or applied mathematics, including statistics; (2) need mathematics as support for their chosen major; or (3) elect to take mathematics as part of their liberal arts education or to fulfill the area requirement in quantitative reasoning.

The department offers three programs: majors in mathematics and mathematical sciences and a minor in mathematics. The major in mathematical sciences is also offered with a concentration in statistics. Majors in mathematics and mathematical sciences can be taken with honors. In addition, there is an interdepartmental joint major in economics-mathematics.

Colby mathematics majors in recent years have entered graduate school to do advanced work in mathematics, statistics, biostatistics, engineering, economics, computer science, biomathematics, and the sciences. They also have used the major as a solid foundation for careers in teaching, law, medicine, banking, insurance, management, the computer industry, and other areas.

All incoming students who intend to enroll in mathematics courses in the fall semester are required to complete the mathematics placement questionnaire prior to registration.

Requirements for the Major in Mathematics

Completion of each of the following with a grade of C- or higher*: One year of calculus, Mathematics 253, 274, 333, 338, either 434 or 439, plus four additional courses selected from Mathematics 262 and any three- or four-credit mathematics courses numbered 300 or above (excluding 484). In exceptional cases, with the permission of the department, another 400-level course may be substituted for 434 or 439.

Although Mathematics 262 and 352 are not specifically required, the department strongly recommends that mathematics majors complete both courses.

Requirements for the Major in Mathematical Sciences

Completion of each of the following with a grade of C- or higher*: One year of calculus, Mathematics 253, 262, 274, Computer Science 151; one course (to establish an overall theme for the major) selected from Mathematics 311, 332, 372, 381, Computer

Science 231; four additional three- or four-credit courses selected from mathematics courses numbered 200 or above (excluding Mathematics 484). With written permission of the advisor, one (or, in exceptional cases, two) of these courses may be replaced by a course with significant mathematical content from another department.

Requirements for the Major in Mathematical Sciences with a Concentration in Statistics

Completion of each of the following with a grade of C- or higher*: One year of calculus, Mathematics 212 or 231, 253, 262, 274, 381, 382, Computer Science 151; one course selected from Mathematics 306, 321, and 374; one additional three- or four-credit course selected from mathematics courses numbered 300 or above (excluding Mathematics 484). Students interested in pursuing a graduate degree in statistics are advised to take Mathematics 338.

Requirements for the Honors Program in Mathematics or Mathematical Sciences

An honors program is available for students majoring in mathematics and mathematical sciences who have a grade point average of at least 3.25 in all mathematics courses numbered 200 or higher and who complete an additional, preapproved program of independent study in the major (Mathematics 484) culminating in both a written paper and a colloquium presentation. Students who successfully complete the requirements and who receive recommendation of the department will graduate "With Honors in Mathematics" or "With Honors in Mathematical Sciences."

Requirements for the Minor in Mathematics

Six three- or four-credit mathematics courses, including completion of at least one semester of calculus, Mathematics 253, and at least one course at the 300 level or above.

The point scale for retention of the majors and minor applies to all courses in the majors/minors. No requirement for the majors or minor may be taken satisfactory/unsatisfactory.

**Note: The requirement of a grade of C- or above for each course begins with the Class of 2015.*

Course Offerings

MA101f Calculus with Pre-calculus I Designed for students who enter Colby with insufficient algebra and pre-calculus background for the standard calculus sequence. It is expected that all students who complete Mathematics 101 will enroll in Mathematics 102 in the following January. The combination of 101 and 102 covers the same calculus material as Mathematics 121. Completion of 101 alone does not constitute completion of a College calculus course for any purpose; in particular, it does not qualify a student to take Mathematics 122 nor does it satisfy the quantitative reasoning requirement. First-year students must complete the mathematics placement questionnaire prior to registration. *Three credit hours.* WELCH

MA102j Calculus with Pre-calculus II A continuation of Mathematics 101. Successful completion of both Mathematics 101 and 102 is equivalent to completion of Mathematics 121. *Prerequisite:* Mathematics 101. *Three credit hours.* Q WELCH

MA110f Statistical Thinking Statistics is the science of learning from data; it provides tools for understanding data and arguments based on data in many diverse fields. Students will learn to describe data in basic terms and to verbalize interpretations of it. Topics include graphical and numerical methods for summarizing data, methods of data collection, basic study design, introductory probability, confidence intervals, and statistical inference. Does not count toward any major or minor. Credit may be received for only one of Mathematics 110, 212, or 231. *Four credit hours.* Q SCOTT

[MA111] Mathematics as a Liberal Art Mathematics is one of humanity's longest-running conversations. Its crucial role in the thought-world of medieval Europe can be seen in the fact that four of the original seven liberal arts were inherently mathematical. Today, mathematics is just as important, permeating our culture. Students will develop awareness of the historical and contemporary roles of mathematics so that they will better understand the nature of mathematics, will know what kinds of things mathematics does well, and will know when to ask for a mathematician's help with their intellectual work. Specific topics discussed will vary. *Four credit hours.* Q

MA121fs Single-Variable Calculus Calculus is the result of centuries of intellectual effort to understand and quantify change, such as the position of a moving object or the shape of a curve. Competent users of calculus understand its intellectual structure sufficiently to apply its ideas to a variety of intellectual pursuits. Topics include differential and integral calculus of one variable: limits and continuity; differentiation and its applications, antiderivatives, the definite integral and its applications; exponential, logarithmic, and trigonometric functions. First-year students must complete the mathematics placement questionnaire prior to registration. *Four credit hours.* Q BRETSCHER, FULLER, SUKIENNIK

MA122fs Series and Multi-Variable Calculus A continuation of Mathematics 121. Students will learn how to use infinite series, both to represent and to approximate functions, and will extend all of their skills from single-variable calculus to the multivariable setting. Topics: infinite series; vectors and analytic geometry in two and three dimensions; partial derivatives, differentials and the gradient; integration in two and three variables. *Prerequisite:* A course in single-variable calculus. First-year students must complete the mathematics placement questionnaire prior to registration. *Four credit hours.* Q LU, SUKIENNIK, TAYLOR, WELCH

MA161f Honors Calculus I The first in a two-course sequence that treats the material of Mathematics 121 and 122 with a focus on the intellectual structure behind the methods. Students will acquire a deep understanding of the theory and foundational facts of calculus, will be able to use the techniques in an intelligent manner, will understand and be able to explain the arguments that undergird those techniques, and will be able to construct original arguments of their own. Topics are presented as a deductive mathematical theory, with emphasis on concepts, theorems, and their proofs. May not be taken for credit if the student has earned credit for Mathematics 122. *Prerequisite:* One year of calculus in high school. First-year students must complete the mathematics placement questionnaire prior to registration. *Four credit hours.* Q LIVSHITS

MA162s Honors Calculus II A continuation of Mathematics 161. Topics are essentially the same as for Mathematics 122, but they are presented as a deductive mathematical theory, with emphasis on concepts, theorems, and their proofs. May not be taken for credit if the student has earned credit for Mathematics 122. *Prerequisite:* Mathematics 161. *Four credit hours.* LIVSHITS

MA194s Mathematics Seminar An opportunity to read and discuss audience-appropriate mathematical material in an informal setting with members of the mathematics faculty, away from problem sets and exams. Successful students will show improvement in reading comprehension of mathematical articles, will increase their knowledge and understanding of the scientific community and the specific ways of mathematicians and statisticians, and will become familiar with mathematical issues of the past and present not normally covered in other courses. May be repeated for additional credit. *Prerequisite:* Mathematics 102, 121, 122, or 161. *One credit hour.* TAYLOR

MA212fs Introduction to Statistical Methods An exploration of statistical methods relevant to a broad array of scientific disciplines. Students will learn to properly collect data through sound experimental design and to present and interpret data in a meaningful way, making use of statistical computing packages. Topics include descriptive statistics, design of experiments, randomization, contingency tables, measures of association for categorical variables, confidence intervals, one- and two-sample tests of hypotheses for means and proportions, analysis of variance, correlation/regression, and nonparametrics. To learn about multiple linear regression techniques students should take Mathematics 231. Credit can be received for only one of Mathematics 110, 212, or 231. *Four credit hours.* Q SCOTT

MA231fs Applied Statistics and Regression Analysis Regression modeling provides a way to interpret data and to gain insight about the processes and populations behind them. Extracting useful information requires careful consideration of context, critical thinking, and a sound understanding of fundamental statistical concepts. Students will explore tools, including statistical software, that help them make sense of data and will analyze it with quantitative outcomes. Topics include descriptive statistics, sampling theory, confidence intervals, one- and two-sample tests of hypotheses, correlation, simple linear regression, and multiple linear regression. Credit may be received for only one of Mathematics 110, 212, or 231. *Prerequisite:* Mathematics 102, 121, or 161. *Four credit hours.* Q O'BRIEN

MA253fs Linear Algebra Linear algebra is a crossroads where many important areas of mathematics meet, and it is the tool used to analyze the first approximation of complex systems. Students will learn to understand and use the language and theorems in both abstract and applied situations, gain insight into the nature of mathematical inquiry, and learn how to reason carefully and precisely about formally described situations. Topics include vectors and subspaces in \mathbf{R}^n , linear transformations, and matrices; systems of linear equations; abstract vector spaces and the theory of single linear transformation: change of basis, determinants, eigenvalues and eigenvectors, and diagonalization. *Prerequisite:* Mathematics 102, 121, 122, or 161. *Four credit hours.* LIVSHITS, MATHES

MA262fs Vector Calculus Develops ideas first seen in Mathematics 122 by applying the notions of derivative and integral to multi-variable vector-valued functions. The goal is to understand the high-dimensional versions of the fundamental theorem of calculus and to use these theorems in specific scientific applications. Topics include parameterized curves and surfaces; gradient, divergence, and curl; change of variables and the Jacobian; line and surface integrals; conservative vector fields; Green's, Stokes's, and Gauss's theorems; applications. Previously offered as Mathematics 302. *Prerequisite:* Mathematics 122 or 162. *Four credit hours.* BRETSCHER, MATHES

MA274fs Mathematical Reasoning Proofs are the main method used by mathematicians to develop and communicate their ideas; this course prepares students to read, create, write, and communicate mathematical arguments. Topics include logic and standard methods of direct and indirect proof; the set-theoretic approach to functions and relations; the theory of infinite sets; elementary algebraic structures; and techniques from discrete mathematics. Credit can be received for only one of Mathematics 274 and 275. *Prerequisite:* Mathematics 102, 121, 122, or 161. Two semesters of calculus is recommended. *Four credit hours.* TAYLOR

MA275fs Topics in Abstract Mathematics Some students are sufficiently proficient with proofs and logic that they do not need to take Mathematics 274; this offers an alternative that focuses less on proof techniques and more on the set theory and related topics. The goal is to equip students to continue their study of mathematics. Topics include set-theoretic approach to functions and relations, the theory of infinite sets, elementary algebraic structures, and techniques from discrete mathematics. Credit can be received for only one of Mathematics 274 and 275. *Prerequisite:* Mathematics 161 and 162 and permission of the department. *Two credit hours.* MATHES

[MA306] Topics in Epidemiology The purposes of epidemiological research are to discover the causes of disease, to advance and evaluate methods of disease prevention, and to aid in planning and evaluating the effectiveness of public health programs. Students will learn about the historical development of epidemiology, a cornerstone of public health practice. Through the use of statistical methods and software, they will explore the analytic methods commonly used to investigate the occurrence of disease. Topics include descriptive and analytic epidemiology; measures of disease occurrence and association; observational and experimental study designs; and interaction, confounding, and bias. *Prerequisite:* Mathematics 212, 231, or 382. *Four credit hours.*

MA311fs Ordinary Differential Equations Differential equations allow us to deduce the long-term behavior of quantities from information about their short-term rates of change; for that reason they are the language of classical science. Students will learn to analyze concrete situations modeled by differential equations and to draw conclusions using equations, graphical techniques, and numerical methods. Topics include theory and solution methods of ordinary differential equations, linear differential equations, first-order linear systems, qualitative behavior of solutions, nonlinear dynamics, existence and uniqueness of solutions, and applications. *Prerequisite:* Mathematics 122 or 162, and 253. *Four credit hours.* GOUVEA

[MA313] Differential Geometry The study of curves and surfaces in three-dimensional space, with the primary focus being on the nature of "curvature" and the distinction between intrinsic and extrinsic geometry. Students will improve their spatial intuition and learn to move easily between general theorems and specific examples. Topics include curves: tangent, normal, and binormal vectors; curvature and torsion; the moving frame; surfaces: the first and second fundamental forms, sectional and Gaussian curvature, the *Theorema Egregium*, geodesics, parallel transport; and selected additional topics. *Prerequisite:* Mathematics 122 or 162, and 253, and 274 or 275. *Four credit hours.*

MA314s Geometry of Surfaces Explores the notion of "geometry" by studying the most important two-dimensional geometries: Euclidean, spherical, and hyperbolic. We will prove that every compact two-dimensional surface admits a geometric structure modeled on one of these geometries. As time allows we will also study applications of these geometries and their relationship to Teichmüller space, Kleinian groups, and three-dimensional manifolds. Students will engage in significant self-teaching and will communicate mathematical ideas with oral presentations, written proofs, and short essays aimed at a general audience. Previously offered as Mathematics 398 (Spring 2012). *Prerequisite:* Mathematics 162 or 262; 253; and 274 or 275. *Four credit hours.* TAYLOR

MA321s Applied Regression Modeling Students will expand on their inferential statistical background and explore methods of modeling data through linear and nonlinear regression analysis. Through the use of statistical software, they will learn how to identify possible models based on data visualization techniques, to validate assumptions required by such models, and to describe their limitations. Topics include multiple linear regression, multicollinearity, logistic regression, models for analyzing temporal data, model-building strategies, transformations, model validation. *Prerequisite:* Mathematics 212, 231, or 382. *Four credit hours.* O'BRIEN

[MA331] Topology Begins as the abstract mathematical study of the notions of proximity and continuity and then deploys these methods to understand interesting objects and spaces. Students will develop their ability to construct precise arguments and to explore concrete examples as instances of a general theory. Topics are selected at the discretion of the instructor from the areas of point-set, differential, and algebraic topology. *Prerequisite:* Mathematics 274 or 275. *Four credit hours.*

[MA332] Numerical Analysis In practice, a solution to a problem might be impossible to obtain by classical methods of manipulating equations. Nonetheless, solutions can often be obtained by numerical methods, usually with the aid of a computer. Numerical analysis is the study of those numerical algorithms. Students will acquire the ability to use standard methods and mathematical software for solving the most common types of numerical problems and to analyze the speed and accuracy of the solutions. Topics include solution by numerical methods of linear and nonlinear equations, systems of equations, and differential equations; numerical integration; polynomial approximation; matrix inversion; error analysis. *Prerequisite:* Mathematics 122 or 162, and 253. *Four credit hours.*

MA333f Abstract Algebra Simply called "algebra" by mathematicians, it is the study of abstract sets with operations and is fundamental in expressing and working in theoretical mathematics. An introduction to that language, to the motivating examples, and to some of the fundamental theorems. Students will develop their ability to discover and write formal arguments, explore the relationship between general theory and specific examples, and learn to recognize algebraic structures where they occur. Topics include groups, rings, and fields: definition, basic theorems, and important examples. *Prerequisite:* Mathematics 253, and 274 or 275. *Four credit hours.* GOUVEA

[MA336] Mathematical Economics Listed as Economics 336. *Prerequisite:* Economics 224, Mathematics 253, and either Mathematics 122 or 162. *Four credit hours.*

MA338s Real Analysis An exploration of the theory behind calculus, as well as its extension to more general settings. Students will learn to think carefully and clearly about limiting processes such as differentiation, integration, and summation of series and to interpret their knowledge in terms of the topology of metric spaces. They will develop the ability to read and to produce formal mathematical arguments, with particular attention to handling exceptional cases and delicate issues of convergence. Special focus on foundational issues: topology of metric spaces, continuity, differentiation, integration, infinite series. *Prerequisite:* Mathematics 122 or 162, and 274 or 275. *Four credit hours.* MATHES

MA352f Complex Analysis An introduction to functions of a complex variable. Topics include the definition and properties of holomorphic and analytic functions, Cauchy's integral theorem and formula, meromorphic functions, representation by Laurent series, the residue calculus, and the elementary transcendental functions. Offered in alternate years. *Prerequisite:* Mathematics 122 or 162, and 274 or 275. *Four credit hours.* LIVSHITS

MA357s Elementary Number Theory Number theory deals with questions about numbers, especially those related to prime numbers and factorization. It offers a wide array of problems that are easily stated and understood but that can be difficult to solve. Students will gain an understanding of the beauty that such problems offer as well as the persistence that is often necessary in tackling them, and they will strengthen their problem-solving and proof-writing skills. Topics include prime numbers and unique factorization; congruences, Fermat's Little Theorem, the Chinese Remainder Theorem, and RSA cryptography; quadratic residues, reciprocity, quadratic forms, and the Pell Equation. *Prerequisite:* Mathematics 102, 121, 131, or 161. Two semesters of calculus or Mathematics 253 is recommended. *Four credit hours.* SUKIENNIK

MA372s Mathematical Modeling Applicable mathematics becomes applied mathematics when we construct a mathematical theory that models the world in a useful way. Students learn to do this using many different types of mathematical tools. Students will continue to develop their problem-solving skills and their ability to present mathematical models to others. Topics include application of mathematics to problems in a variety of areas; interpretation of existing mathematical models, analysis, and computer simulation; formulation and development of new mathematical models. *Prerequisite:* Mathematics 122 or 162, and 253. *Four credit hours.* LU

[MA374] Design and Analysis of Experiments Students will learn how to identify potential sources of variation and plan experiments accordingly, paying attention to the desired comparisons. Statistical computing software will be used to perform analysis of variance and post-estimation techniques in a variety of experimental designs. Emphasis on statistical thinking and applications as well as the underlying mathematical structures and theory. Topics include completely randomized factorial designs, randomized block designs, Latin squares, factorial designs, and fractional factorial designs. Formerly offered as Mathematics 398A. *Prerequisite:* Mathematics 212, 231, or 382. *Four credit hours.*

[MA376] History of Mathematics The history of mathematics with emphasis on the interaction between mathematics, culture, and society. Writing-intensive and involving careful reading of original historical documents. By studying the mathematics of different times and cultures, students will deepen their own understanding of mathematics and develop a clearer idea of how society and mathematics influence each other. A survey of the history of mathematics is followed by a more careful tracing of the development of one theme or topic. Specific topics vary from year to year but often include the mathematics of non-Western cultures. *Prerequisite:* Mathematics 274 or 275. *Four credit hours.* H

MA378f Introduction to the Theory of Computation Listed as Computer Science 378. *Prerequisite:* Computer Science 231 and either Mathematics 274 or 275. *Four credit hours.* SKRIEN

MA381f Mathematical Statistics I: Probability A mathematical introduction to probability theory, the foundation for commonly used inferential statistical techniques (covered in Mathematics 382). Students will learn the basic theorems of probability and computational techniques for finding probabilities associated with stochastic processes. Topics include axiomatic foundations, combinatorics, random variables, discrete and continuous probability distributions, special probability distributions, independence, conditional and marginal probability distributions, properties of expectations, moment generating functions, sampling distributions, weak and strong laws of large numbers, and the central limit theorem. *Prerequisite:* Mathematics 122 or 162. *Four credit hours.* O'BRIEN

MA382s Mathematical Statistics II: Inference Building on their background in probability theory, students explore inferential methods in statistics and learn how to evaluate different estimation techniques and hypothesis-testing methods. Students learn techniques for modeling the response of a continuous random variable using information from several variables using regression modeling. Topics include method of moments and maximum likelihood estimation, sample properties of estimators including sufficiency, consistency, and relative efficiency, Rao-Blackwell theorem, tests of hypotheses, confidence intervals, linear models, and analysis of variance. Although applications are discussed, the emphasis is on theory. *Prerequisite:* Mathematics 381. *Four credit hours.* SCOTT

[MA391] Problem-Solving Seminar Mathematicians solve problems. This seminar on problem solving is designed for students of all levels. The focus is on mathematical puzzles and curiosity-driven mathematics. The goal is to explore systematic ways in which nonstandard problems can be approached. Facts and strategies presented will be of value to both pure and applied pursuits. Topics will vary. May be repeated for credit. *One credit hour.*

MA397f Error-Correcting Codes and Finite Fields How can data from smartphones be transmitted effectively without constant errors? How can a scratched CD still play music? An introduction to the mathematics behind coding, specifically codes used for data compression, error detection, and error correction. Students will be introduced to basic set theory, probability, modular arithmetic, various theorems and algorithms of integers, and finite fields to investigate the properties of coding theory, especially linear codes. *Prerequisite:* Mathematics 122 or 162, and 253. *Four credit hours.* SUKIENNIK

[MA411] Partial Differential Equations Applying the methods of differential equations to a multi-variable setting involving

both time and space generates a whole new theory, which is at the core of much scientific computation, mathematical physics, and several other areas of applied mathematics. An introduction to the main ideas of that theory, preparing students for further work in applied mathematics. Topics include linear and nonlinear partial differential equations, systems; initial value problems, boundary value problems; analytic and numerical methods of solution; applications. *Prerequisite:* Mathematics 253 and 311. *Four credit hours.*

MA434s Topics in Abstract Algebra One semester's exposure to algebra is not sufficient for further work in mathematics, so this is a continuation of Mathematics 333. Students will further develop their ability to speak the language of and use the methods of algebra through the study of one particular algebraic theory. Improving one's written and oral communication of mathematics is an integral part of the course. Topics will vary from year to year. May be repeated for credit with permission of instructor. *Prerequisite:* Mathematics 333. *Four credit hours.* GOUVEA

MA439f Topics in Real Analysis A sequel to Mathematics 338. Students will deepen their understanding of analysis through the exploration of more-advanced topics and will sharpen their ability to read, analyze, construct, and present proofs. Improving one's written and oral communication of mathematics is an integral part of the course. Topics will vary from year to year. May be repeated for credit with permission of instructor. *Prerequisite:* Mathematics 338. *Four credit hours.* LIVSHITS

MA484s Honors Independent Study The independent study component of the honors program in mathematics. Cannot be counted toward the major or minor. *Prerequisite:* Permission of the instructor and admission to the honors program. *Three or four credit hours.* FACULTY

MA491f, 492s Independent Study Independent study in an area of mathematics of particular interest to the student. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY

MUSIC

Chair, Associate Professor Jonathan Hallstrom

Professor Steven Saunders; Associate Professors Todd Borgerding, Jonathan Hallstrom, and Steven Nuss; Assistant Professor Natasha Zelensky; Assistant Professor Lily Funahashi

Requirements for the Major in Music

Music 111, 181, 182, 241, 242, 252 or 262, 281, 282, 341, and 493 or 494; two four-credit electives in music at the 200 level or higher; two semesters of applied lessons (both of which must be taken on the same instrument and for credit) and two semesters of ensemble participation.

The point scale for retention of the major applies to all courses in music. No requirement for the major may be taken satisfactory/unsatisfactory.

Requirements for the Major in Music-Interdisciplinary Computation

Music 111, 181, 182, 282, and 491 or 492 (in collaboration with computer science); one 200-level or higher music elective that has a computational or digital focus; two semesters of applied lessons (both of which must be taken on the same instrument and for credit); Computer Science 151, 231, 251; two of 351, 365, or other approved 300- or 400- level course.

The point scale for retention of the major applies to all courses in music and computer science. No requirement for the major may be taken satisfactory/unsatisfactory.

Requirements for the Minor in Music

Music 111, 181, 182; one semester of music history chosen from Music 241, 242, 252, 341; two four-credit music courses at the 200 level or higher; two semesters of applied lessons (both of which must be taken on the same instrument and for credit), one semester of ensemble participation. The College does not subsidize the cost of lessons for minors. For additional information concerning applied music options, refer to the statement below.

Honors in Music

An honors program is available to students majoring in music who have a 3.25 overall grade point average and a 3.50 average in the major. In addition to fulfilling the requirements for the music major, honors students must take one additional course in music, approved by the department, at the 300 level or above; they must also complete the honors sequence (Music 483, 484) in one of four areas (theory/analysis, history/culture, performance, or composition/theory). During the second semester of the junior year, students seeking admission to the honors program submit a formal proposal outlining their proposed research or creative project to the department for approval.

Applied Music

Private lessons in voice and a variety of instruments are available, with or without academic credit (see Music 091, 191). Music 153 or Music 181 fulfills the co-requisite for graded credit in Music 191 and 193. Fees for lessons, billed through the College business office, depend upon the number of credits elected; consult the Music Department for specific charges. By electing any applied music, the student incurs a responsibility for the appropriate fee. Students electing Music 091 or 191 or taking extracurricular instruction must consult the applied music coordinator. Individual lessons/times are scheduled in consultation with the appropriate applied music associate.

Instruction in applied music is also available in January and may satisfy a January Program requirement; no academic credit for applied music may be earned in January. Music majors, beginning in the first semester of their sophomore year, are eligible for six semesters of subsidized instruction in applied music (Music 191 for two credits) in the instrument of their choice provided they continue to make satisfactory progress in the major. Majors in good standing are also eligible for an additional four semesters of subsidized instruction on a second instrument; however, the College will not fund more than two instruments per semester.

Course Offerings

MU091fjs Lessons: Noncredit (or January Program) Noncredit instruction in voice and instruments for qualified students. Regular offerings include violin, viola, violoncello, piano, voice, flute, guitar (classical, American traditional, and jazz), and selected brass and woodwind instruments. One 30- or 60-minute lesson weekly in fall and spring; two 45-minute lessons weekly in January. For an application (required) and additional information concerning fees and scheduling, see the Music Department secretary. *Noncredit.* FACULTY

MU093fs Applied Music: Ensemble, Noncredit Noncredit participation in musical ensembles sponsored by the Music Department. See description for Music 193. *Noncredit.* FACULTY

MU111fs Introduction to Music An exploration and celebration of the art of listening. Develops techniques and vocabulary for critical listening, emphasizing student listening to a range of musical works in a variety of styles. Surveys the history of Western art music from the Middle Ages to the present, emphasizing the relationship between music as a historical and cultural artifact and as an object of aesthetic delight. Special attention to the structure of musical works, their place in Western culture and history, and the ways in which sounding music reflects the beliefs and values of those who made (and make) it. No previous musical experience is assumed. *Four credit hours.* **A** SAUNDERS

MU114j Jazz Improvisation Basic jazz theory and improvisation, including melody-, scalar-, modal-, and chord-based improvisation. Introduction to arranging for jazz groups and interactions between soloists and background musicians; jazz style and performance practices. Includes semiprivate instruction and performances in large groups and smaller combos. Listening assignments include jazz greats. Instrumentalists and vocalists welcome. *Prerequisite:* Ability to sing or play major scales. *Three credit hours.* **A** THOMAS

[MU116] Introduction to the MIDI Studio Students will learn basic Musical Instrument Digital Interface (MIDI) and digital audio techniques primarily using the *Ableton Live* software program in the Colby electronic music studio. Topics include sequencing, synthesis, sampling, and audio processing. We will listen to classics of electronic music as well as current works. Each week students will create a piece of electronic music that will be played for the entire class. Final compositions will be played for an audience. *Prerequisite:* Knowledge of basic musical concepts such as pitch, rhythm, and time signature is assumed. *Three credit hours.* **A**

MU118j African Music An introduction to the music of Africa, an integral and defining aspect of the culture of Africa. Hands-on experience with various instruments (e.g., drums, rattles, bells), as well as singing and dancing, to provide important insights into the cultures of Africa. Various African music themes will be explored through films and recordings. Culminates in a final performance by the class. *Three credit hours.* **A** BENISSAN

MU120s Popular Music Criticism This first-year writing course explores the styles and genres of current popular music. Students will develop listening skills and, through readings in current (pop) music criticism, learn to write effectively and persuasively about music. *Four credit hours.* **A,W1** BORGERDING

MU121j Entartete (Degenerate) Musik "Degenerate Music" was the term Nazis applied to any music influenced by jazz, the avant-garde, or written by composers of Jewish descent. This music was banned, its composers driven into exile and/or murdered in concentration camps, creating a lost generation that altered the direction of 20th-century musical development. Now there is a worldwide effort to find a historical place for these artists, and this course contributes to that effort. Topics include German anti-Semitism, anti-Semitic thought in works of Wagner, Nazi racial laws targeting Jewish musicians, official agencies and cultural policies, performers and composers as victims and survivors. *Three credit hours.* **A,I** SILVER

MU153f Introduction to Music Theory Through Composition An introduction to the fundamental elements of music theory through analysis and composition. Students will learn to compose pieces in a variety of styles by effectively manipulating rhythm, intervals, scales and keys, melody, harmony, and form. Particular emphasis will be placed on the analyze/emulate model. Primarily for students without extensive musical training. May be taken as preparation for Music 181. Students cannot receive credit for both this course and Music 154. *Four credit hours.* **A** HALLSTROM

MU154s Introduction to Music Theory Through Improvisation An introduction to the fundamental elements of music theory through improvisation. Students will learn about rhythm, intervals, scales, keys, melody, and harmony and how to use them to effectively improvise in a variety of styles. While designed for students without extensive musical training, does require basic music reading skills. May be taken as preparation for Music 181. Credit cannot be earned for both this course and Music 153. *Prerequisite:* Ability to read music. *Four credit hours.* **A** HALLSTROM

[MU157] Music in the Digital Age Examines trends and techniques in digital music composition from 1983 to the present with an emphasis on avant-garde works involving interactive multimedia. Students will learn to critically assess a wide range of music that integrates digital technology and to analyze it based on its structure as distinct from its representational meaning. Hands-on compositional exercises will introduce students to software tools for manipulating sounds and images, creating interactive multimedia performances. Culminates in a group project that will synthesize work in all three components of the cluster. *Four credit hours.* **A**

MU172f Music and Gender Can musical sounds be gendered? What is the relationship between sound, sex, and the body? What elements of a musical performance—pitch, timbre, lyrics, instruments, staging, audience reaction—can inform, reflect, or construct modes of gender, and how, in turn, can this space be used as a subversive realm? How do these constructions vary across time and cultures? Exploring such questions through the lens of Western classical, pop, and world musics provides students with a starting point for considering the rich and often contested intersection between music and gender. *Four credit hours.* **A** ZELENSKY

MU181f Music Theory I The first course in a sequence exploring the language of music. Just as learning a foreign language involves mastering a variety of skills (listening, speaking, reading, and writing), becoming conversant in music requires the ability to hear, notate, analyze, compose, and perform. Assures that students are fluent in the elements and structure of music, including intervals, scales, triads, and seventh chords. Central attention to species counterpoint, all diatonic harmonies, and four-part writing. Introduction to composing in a variety of styles and to ear training and sight singing. Primarily for students with some prior musical training (see also Music 153). *Four credit hours.* **A** BORGERDING, SAUNDERS

MU182s Music Theory II A continuation of Music Theory I that further refines students' command of diatonic harmony and counterpoint and introduces modulation and other important aspects of chromatic harmony. Includes regular work in ear training, studies of musical form, composition, and keyboard harmony. Primarily for music majors and others with prior training in music. *Prerequisite:* Music 181. *Four credit hours.* NUSS

MU191fs Lessons: Credit Instruction in voice and instruments for qualified students. Regular offerings include violin, viola, violoncello, piano, voice, flute, guitar (classical, American traditional, and jazz), selected brass and woodwind instruments, and African drums. 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, see the Music Department secretary. May be repeated for additional credit. *Prerequisite:* Music 153, 154, or 181 (may be taken concurrently). *One or two credit hours.* FACULTY

MU193fs Applied Music: Ensemble for Credit Credit for participation in musical ensembles sponsored by the Music Department. In addition to the large ensembles listed below, the department frequently offers a contemporary music ensemble, a flute choir, a guitar ensemble, a trumpet choir, a string ensemble (master class), and small chamber music groups. Interested students should consult the department for additional information before registering. May be repeated for credit. *Prerequisite:* Music 153, 154, or 181 for graded credit (may be taken concurrently). *One credit hour.*

African Drumming. Performance of music from various African cultures, with hands-on experience with various instruments, including drums, rattles, and bells, and exposure to several traditions of African singing and dancing. The group presents concerts on campus and throughout the state of Maine. BENISSAN

Chorale. Colby's largest choral ensemble, its repertoire includes unaccompanied works of the 18th through 20th centuries by European and American composers as well as major works for chorus and orchestra. Tours and exchange concerts are arranged. Enrollment, open to all students, is through auditions early in the fall semester. DOSMAN

Collegium Musicum. Early music ensembles, performing music from before 1750. Groups include the Collegium Chamber Singers (a small choir of about 16 performers) and the Collegium Chamber Players (an instrumental ensemble). Instrumentalists (strings and winds) should contact instructor; enrollment for singers is through auditions early in the fall semester. BORGERDING

Jazz Band. Presents a standard big band setup, performing swing, Latin jazz, funk, soul, R & B, and bebop styles for concert, tour, and college functions. Brass, wind, and percussion players by audition. THOMAS

Orchestra. A symphony orchestra composed of students, local amateurs, and professionals. Performs four concerts per year of works spanning the entire range of major symphonic literature. Noncompetitive auditions are held at the beginning of each semester. RENARD

Wind Ensemble. Each semester the ensemble presents a concert of works drawn from standard literature, symphonic works, movie music, marches, etc. Open to all interested brass, wind, and percussion players without audition. THOMAS *One credit hour.* FACULTY

MU197] Music Industry Seminar A broad overview of the recording and music industry. Students will learn the structure of,

and relationship between, the recording, music publishing, marketing, and live performance industries. In addition, students will learn about different career and income opportunities, how to develop a strategy to break in and succeed in the industry, and to understand the business aspects involved in producing, manufacturing, marketing, and distributing musical content. To the extent possible, project opportunities will be aligned with students' individual interests. *Three credit hours.* RENARD

MU222s Maine's Musical Soundscapes: Ethnography of Maine What are the musical cultures outside of Colby and what are the communities making this music? We will engage this question through direct interaction and observation of Maine's ethnic and racial communities. Students will learn ethnographic field methods and take field trips to conduct interviews at sites that make up the rich tapestry of Maine's soundscape, including Waterville establishments and Penobscot, Lebanese, Somali, Russian, and French-Canadian communities (the group under study will rotate on a yearly basis). Students will present their findings in a written or cinematographic study. *Four credit hours.* A ZELENSKY

MU234f From Rockabilly Kings to Lady Gaga: A History of Rock 'n' Roll A survey of rock music, from its roots in country and blues to the postmodern eclecticism of Lady Gaga. Rock music will be considered in relation to race, sex, gender, drugs, technology, marketing, and politics to better understand its powerful position in constructing, challenging, and reinforcing various positions of identity. Students will learn to discuss the musical characteristics of a work, identify its genre and era of composition, and contextualize it within a broader framework of American culture and politics. *Four credit hours.* A ZELENSKY

MU241f Music History I: Middle Ages to the Early Baroque Period An exploration of Western art music from c. 800 to c. 1700, including principal genres from the Middle Ages (chant, organum, motet, chanson), Renaissance (mass, motet, madrigal), and the 17th century (opera, instrumental music). Focuses on compositional concepts and processes, historical music theories, institutional patronage, and the connections between music and such areas as theology, philosophy, and the visual arts. Students develop analytical and writing skills through listening, writing, and analysis. *Prerequisite:* Music 111 and 181. *Four credit hours.* BORGERDING

MU242s Music History II: High Baroque to the Dawn of Romanticism Focuses on music of the High Baroque, Classical, and early Romantic periods, including works of Bach, Handel, Haydn, Mozart, Beethoven, Schubert, Chopin, and Schumann. Students develop critical, analytical, and listening tools for dealing with these repertoires and hone their bibliographic, oral, and written skills. Theoretical issues include the relationship between musical structure and cultural context, music's relationship to literature and the visual arts, tonality, music and drama, and aesthetics. *Prerequisite:* Music 111 and 181. *Four credit hours.* SAUNDERS

MU252f Introduction to World Music While nearly every society in the world has music as an important part of life, its meaning varies widely. We will examine some of the ways music is integrated in different societies in the world, focusing on a variety of musical traditions in Asia, Africa, the Near East, and the Americas. Units cover religious ritual, art music, theater and poetry, and festival. Traditions covered include santeria, north Indian classical music, Russian folk music, gagaku, Brazilian capoeira, samba, Native American pow-wow, 'oud art music, and many more. Open to first-year students. *Four credit hours.* A, I ZELENSKY

MU254f Music of Meditation Study of music, ritual, and meditation in Rinzi Zen Buddhism, monastic Roman Catholicism, and Hinduism. Attention to ways communication and apprehension of sacred texts are affected by unique musical and meditative practices and ritual forms. Units include (1) discussion of writings by Japanese, Indian, and Western philosophers, musicians, and theorists of language; (2) instruction in the three forms of ritual choreography and meditation techniques; (3) chant instruction and performance. Each unit concludes with a required public group performance scheduled outside regular class time. Willingness to engage in original research and participate in group chanting and meditation/contemplation exercises is essential. *Four credit hours.* A NUSS

[MU258] The Politics and Poetics of Music and Dance of Eastern Europe A historical, cultural, and practical exploration of traditional music and dance of various regions of Eastern Europe, including Bulgaria, Serbia, Romania, Albania, Russia, Greece, and Georgia. Students will learn basic techniques of folk singing, dancing, and instrument playing of these regions and will examine the use of Eastern European folk music in Western art music and its role in broader political sociocultural realms, including gender relations, ethnic and religious identity, and Socialist/post-Socialist politics. *Four credit hours.* A

MU262s Music in Life, Music as Culture: Introduction to Ethnomusicology Provides students with a theoretical and methodological introduction to ethnomusicology, a discipline that is rooted in exploring music not merely as an aesthetic object, but as a cultural force that reflects and shapes our everyday lives. Topics include: music and medicine, migration, war, ethnicity, sexuality, and spirituality. Topics will be explored through a close reading of seminal texts and an examination of relevant theory. Students will also learn the fundamentals of conducting ethnographic fieldwork through attending a religious ceremony, a concert, and scrutinizing the soundscapes of Colby's campus. *Four credit hours.* A ZELENSKY

[MU267] Contact Zone In her influential critical work *Imperial Eyes*, Mary Louise Pratt introduces the concept of "contact zone"—a site of interchange and tension among language, history, tradition, and authority that characterizes colonial and postcolonial cultures. We will examine the ways in which the Gandhi Ashram in Kalimpong, India paradoxically uses Western classical music and other elements from India's colonial legacy as the means to overturn long-held social and cultural prejudices that are an everyday part of the lives of their economically disadvantaged and low caste students. Students serve as general

subject teachers at the ashram and use their experiences to reflect on the ethical, cultural, and political implications of the school's unique, music-centered educational approach as one unique Indian way of dealing with basic issues of human rights. Estimated cost: \$2,900. *Three credit hours.* **A, I**

MU275j Cultured Tough Guys: Samurai Devotion, Music, Poetry, and Art The samurai, known as the warrior class of medieval and early modern Japan, have a long history in the Western imagination. Through internationally famous Japanese warrior movies of the 1950s and 60s, and more modern images of crafty ninjas in video games and Western print and visual media, the samurai are often depicted as one-dimensional automatons ready to fight and die at a moment's notice for their superior's cause. A combination of historical readings and experiential learning activities offers a more refined view of the samurai and their elegant contributions to every aspect of the visual, literary, and musical arts of Japan. *Three credit hours.* **A** NUSS

MU281f Music Theory III Analytical studies of advanced chromatic harmony and modulatory techniques in major works of the 19th century using composition assignments "in the style of" representative composers of the middle and late Romantic periods, analytical essays, and keyboard harmony and ear training assignments. An introduction to neo-Riemannian theory (triadic post-tonality) with applications to selected works of Brahms, Liszt, and Wagner. Students will learn to illustrate the logic of complex chromatic passages, explain their analyses in clear, discipline-specific prose, translate analytical thinking to actual composition, demonstrate advanced chromatic techniques at the keyboard, and develop a solid aural grasp of chromatic idioms. *Prerequisite:* Music 182. *Four credit hours.* NUSS

MU282s Music Theory IV Post-tonal harmony and contemporary analytical techniques. Primarily for music majors. *Prerequisite:* Music 281. *Four credit hours.* NUSS

[MU297] Seeing, Then Hearing: Graphic Design for the Music Industry While it may seem counter-intuitive, visual attraction is a central concern in the business of music. Getting music to the attention of the widest possible audience demands an increasingly refined and international visual fluency. We will look at and listen to several well-known and recent releases with an eye to the whats and whys behind the differences in the visual publicity and packaging in the European, Asian, and American markets for albums by artists such as Katy Perry, The Rolling Stones, Kanye West, and Kiss. Students will use readings in world and art history, ethnomusicology, and cultural theory, and hands-on work with AdobePhotoshop to debate and formulate answers to a number of complex, multi-cultural music industry design problems. *Three credit hours.* **A**

MU298s Trancing: Possession, DJs, Electronica, Ritual, Ecstasy A close study of two very different musical worlds: the world of the electronic trance music DJ and his/her role in orchestrating a transcendent musical experience, and that of mainstream and tribal traditions of music-induced trance. While these two streams of trance seem to have wildly different goals and effects, close study of their individual rituals, practices, and environments strongly suggests that they may be striving for a similar transcendent goal. Through listening and reading assignments, writing projects, and class discussions, students will develop their own theories of the nature of these two streams of trance music as well as the roles they often play in both defining and contesting cultural identity. *Four credit hours.* **A, I** NUSS

MU341f Music History III: Music of the 19th and 20th Centuries An overview of 19th- and 20th-century music with a focus on the evolution of musical styles and the manner in which they have been impacted by concurrent artistic, cultural, and political events. Students will acquire a fundamental knowledge of those composers considered to have had a significant impact on music from the late 19th century to the present and their position within the larger sociocultural milieu. Achievement of learning goals will be assessed based on performance on a midterm examination, an oral presentation (for which current presentation technology and methodology must be used), and a final research paper. *Prerequisite:* Music 111 and 182. *Four credit hours.* HALLSTROM

MU483f, 484s Honors Research I Substantial original research or completion of a major creative project under faculty supervision, culminating in a written paper and/or a public presentation. *Prerequisite:* 3.25 overall grade point average, 3.5 major average at the end of the junior year, and permission of the department. *Three credit hours.* FACULTY

MU491f, 492s 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

MU493s Seminar: Computer Music and Sound Design A hands-on exploration of the practical, theoretical and historical aspects of computer-generated music with an eye toward understanding its increasingly important role in the shaping of musical tastes. *Prerequisite:* Music 282. *Four credit hours.* HALLSTROM

NEUROSCIENCE

In the Departments of Biology and Psychology.

Majors with concentrations in neuroscience are described in the "Biology" and "Psychology" sections of the catalogue.

PHILOSOPHY

Chair, Associate Professor James Behuniak

Professors William Adams, Daniel Cohen, and Jill Gordon; Associate Professors James Behuniak and Lydia Moland; Assistant Professor Keith Peterson

"Philosophy," as William James put it, "is an attempt to think without arbitrariness or dogmatism about the fundamental issues." Colby's philosophy program challenges students to understand what it means to live morally in an often unjust world, to deliberate rationally about knowledge, freedom, and meaning, and to appreciate deeply the natural and aesthetic dimensions of our lives. Our courses provide the historical depth, cosmopolitan breadth, and multiplicity of perspectives necessary for participating in the philosophical conversation that spans human history and reaches around the globe. The Philosophy Department cultivates skills in effective writing, close reading, clear reasoning, and creative thinking, enabling students to join this ongoing conversation. Philosophy prepares students for professional careers and a lifetime of intellectual engagement in a complex and changing world.

Requirements for the Major in Philosophy

To complete the major in philosophy, a student must take a minimum of 10 courses, including Philosophy 151, 231, and 232. The remaining seven elective courses must include at least one that satisfies the metaphysics and epistemology area requirement (M&E); one that satisfies the values area requirement (V); and one that satisfies the diversity requirement (D). Among the seven electives, only one from the 100-level can be counted, at least three must be at or above the 300-level, only one from 483/484 can be counted, and only one from 491/492 can be counted. In addition, students must enroll in two semesters of the philosophy colloquium (201 and 202). No courses taken satisfactory/unsatisfactory can be counted in fulfillment of major requirements, nor can any courses counting for fewer than three credits.

Honors in Philosophy

Students majoring in philosophy may apply during their junior year for admission to the honors program. Permission is required; guidelines are established by the department and posted at colby.edu/philosophy. Successful completion of the work of the honors program and of the major will enable the student to graduate "With Honors in Philosophy."

Requirements for the Minor in Philosophy

To complete the minor in philosophy, a student must take a minimum of six courses. These must include at least one course that satisfies the metaphysics and epistemology area requirement (M&E); one that satisfies the values area requirement (V); and one that covers a historical period in philosophy (H). At least one must be at or above the 300-level, and no more than one may be at the 100-level with this exception: both Philosophy 151 and another 100-level course may be counted. No course taken satisfactory/unsatisfactory can be counted in fulfillment of minor requirements, nor can any course counting for fewer than three credits.

Course Offerings

PL111f Central Philosophical Issues: Self and Society An introduction to philosophy by consideration of two of its central branches: social and political philosophy and ethics. Issues addressed are moral absolutes, the social contract, political power, individual rights, economic justice, the good society. Readings from Plato, Locke, Mill, Marx, and Malcolm X. *Four credit hours.* **S** GORDON

[PL112] Central Philosophical Issues: Puzzles and Paradoxes An introduction to some of the central concepts, problems, and methods of contemporary philosophy by engaging with an assortment of perplexing problems that inevitably arise when thought turns in on itself. Dilemmas of decision theory and paradoxes of rationality are among the topics covered. *Four credit hours.*

PL113f Central Philosophical Issues: On Being Human Combines readings of classic philosophical texts on the subject of human nature with current incarnations of these debates in the contemporary world. Possible topics include the extent to which human nature is natural as opposed to cultural, the question of what differentiates humans from animals, the ethics of genetic enhancement and our treatment of other animals, the role of race or gender in human identity, humor as a unique human characteristic, examinations of human nature in post-apocalyptic literature. Extensive and varied writing assignments will develop students' writing skills via engagement with these topics. *Four credit hours.* **S,W1** MOLAND

PL114f Central Philosophical Issues: Nature and God An introduction to philosophy approached through issues in the philosophy of religion. Stress will be on epistemological questions (regarding how we can have knowledge) in connection with metaphysical questions (regarding the basic features of the universe). Designed to introduce students to the history of Western philosophy; to improve skills of critical reading, writing, and thinking; and to promote thinking on some big-picture issues, such as education, happiness, wisdom, God, spirituality, and knowledge. Readings include Plato, Aquinas, Bacon, Descartes, Hume, and James. *Four credit hours.* **L** BEHUNIAK

[PL126] Philosophy and the Environment An introduction to philosophy approached through prominent questions and

themes in environmental philosophy. Topics include the historical context and causes of environmental crisis, anthropocentrism, animal rights, intrinsic value, biocentrism, ecocentrism, and radical social theories, incorporating core philosophical issues in ethics, philosophical anthropology, and nature philosophy. These provide resources for clear and creative reasoning on the philosophical aspects of creating sustainable ecologies and societies, for reflection on value priorities, and for exploration of relationships between academic work and responsibility to contribute to the world. *Four credit hours.* L

PL151fs Logic and Argumentation Argumentation is a subject that covers the processes of reasoning, the communicative actions, and the dialectical exchanges that give form to our intellectual lives. Logic, the study of inferences, is a central component of good argumentation. Students develop the conceptual vocabulary and critical skills to argue effectively and to evaluate arguments intelligently. These include interpretive techniques, like diagramming and fallacy identification, as well as the formal, analytic tools of symbolic logic. *Four credit hours.* Q COHEN

PL174s Central Philosophical Issues: Philosophical Anthropology What is human nature? What makes humans different from other animals? What is the significance of the divisions internal to human society, such as those of race, class, gender, and culture? What does it mean to be a self-interpreting, historical being? What is the place of human beings in the natural world, especially in the context of global environmental crisis? Philosophical anthropology is the study of past and current responses to these questions and includes an understanding practice of critique as a philosophical method. Exposure to responses from past and present provides opportunities to question fundamental beliefs about human nature. *Four credit hours.* S ELMORE

[PL175B] Science in Ancient Greece Listed as Science, Technology, and Society 175. *Four credit hours.* S

PL201fs Philosophy Colloquium I The first semester of a year-long series of presentations from faculty and invited speakers on topics of current philosophical interest. Students are expected to attend all the colloquia, read the papers beforehand, and, with mentors, prepare questions to be asked of the presenters. *One credit hour for completion of two semesters of the series.* *Prerequisite:* Philosophy major or minor. *Noncredit.* BEHUNIAK, COHEN, GORDON, MOLAND

PL202fs Philosophy Colloquium II The second semester of a year-long series of presentations from faculty and invited speakers on topics of current philosophical interest. Students are expected to attend all the colloquia, read the papers beforehand, and, with mentors, prepare questions to be asked of the presenters. *One credit hour for completion of two semesters of the series.* *Prerequisite:* Philosophy 201 and philosophy major or minor. *One credit hour.* BEHUNIAK, COHEN, GORDON, MOLAND

[PL211] Moral Philosophy Should ethics be based on universal respect for human dignity, on an assessment of what would benefit society at large, or on what fosters desirable character traits in the individual? Our answers determine how we address difficult questions concerning life and death, the ethics of war, indigenous rights, and global poverty. We explore the historical basis of four major movements in current ethical theory: virtue ethics, deontology, moral psychology, and utilitarianism. In conjunction with each theory, we will consider a contemporary ethical issue. Students develop both written and verbal argumentative skills through essays and class presentations. *Four credit hours.* S

PL212j Philosophical Paradoxes There can be an air of paradox when thinking about thinking, as if thought gets its own way. We will tackle these "antinomies of reason" to help us develop strategies that can be applied to other, more traditional philosophical problems. In order to untangle these knots, we will need to learn important analytic techniques and strategies. Finally, we will discover something about the nature of philosophy from these peculiarly and characteristically philosophical problems. Credit cannot be earned for both this course and Philosophy 112. *Three credit hours.* COHEN

[PL213] Philosophical Inquiries into Race A philosophical treatment of several aspects of race and racism: ontological issues surrounding what race is; existential and phenomenological issues about embodiment as a visible racial minority; social and political issues regarding oppression, colonization, and discrimination; and ethical issues involving racial minorities in the American context. *Four credit hours.* S, U

PL215s Feminist Philosophies Whether one views feminism as a philosophical school of thought, an interpretive strategy, a political movement, or a way of understanding culture and ideas, it has many faces; feminism is neither unified nor monolithic. Students examine several feminist frameworks (structures of political thought that shape feminism), their relationship to and difference from one another, and feminist issues that lie outside of those frameworks. *Four credit hours.* S, U GORDON

[PL217] Feminism and Science An examination of new and challenging questions feminists and social theorists have raised about the content, practice, values, and traditional goals of science. Objectives include deepening the student's knowledge of feminist philosophy and familiarizing them with some of the diverse literature in the field of science studies. Topics include "standpoint" and social epistemologies; objectivity, value-neutrality, and universality claims of modern science; the social and historical character of science; how implicit assumptions about gender, class, ethnicity, epistemic, and social values affect research and reasoning; and how the language scientists use to explain phenomena conditions the production of knowledge. *Four credit hours.* S, U

PL231f History of Ancient Greek Philosophy A survey of ancient thought that also examines the social and cultural contexts in which that thought arises. Study of the Greek world through the ideas of the pre-Socratics, the Sophists, Plato, and Aristotle. *Four credit hours.* H GORDON

PL232s History of Modern Philosophy The philosophical period covered (roughly 1600-1800) includes some of the great transformations of Western philosophy: Descartes' famous *cogito*, Spinoza's radical monism, Hume's sweeping skepticism, and Kant's Copernican Revolution. Along the way, thinkers such as Elizabeth of Bohemia, Hobbes, Locke, and Mary Astell engaged in spirited debates about the origin of emotions, the nature of freedom, the status of knowledge, and the place of belief. We study each of these theorists in an effort to understand the questions they raised and the impact of their answers on the contemporary world. *Four credit hours.* **H** MOLAND

PL234f Philosophy and Art In 1964 philosopher Arthur Danto had a life-changing experience viewing contemporary art and concluded that we had reached the "end of art." What could this mean? We will explore this and other questions, including: Why do humans create art in the first place? Is the aesthetic experience primarily cognitive or emotive? Should art merely entertain us or ennoble and improve us? Do artistic genres such as comedy evolve, or do they (and does art in general) articulate something constant about human nature? Will engage students in artistic events on campus and the Colby Museum of Art. Through written exercises and presentations, students' written and verbal skills are developed. *Prerequisite:* Sophomore or higher standing. *Four credit hours.* **A** MOLAND

PL236f Critical Social Thought Critical engagement with questions about state formation, social relations, and economic justice. Readings from seminal texts in the field of social and political philosophy, accompanied by texts from contemporary critics of the tradition. Students will practice close, analytic readings of the texts, followed by brief writing assignments aimed at priming our discussion. They will also write philosophical papers aimed at sustained argumentation. *Four credit hours.* **U** GORDON

[PL239] Epistemology An introduction to basic philosophical positions regarding Skepticism, knowledge versus belief, knowledge and the world, and epistemic justification as well as topics such as the nature of certainty, "naturalized epistemology," and the ethics of belief. *Four credit hours.*

[PL240] Ethics on the Continent: From Kant to Levinas An examination of prominent ethical theorizing and meta-ethical discourse on the Continent (primarily France and Germany), from Kant to the present. Topics include Kantian deontological moral theory, Nietzsche's critique of "slave morality," the phenomenological Value Ethics of Max Scheler and Nicolai Hartmann, the Existentialist ethics of Sartre and Simone de Beauvoir, the dialogical ethics of Martin Buber and Emmanuel Levinas, and the discourse ethics of Jürgen Habermas. Students will reflect on the ultimate structures of ethical relationships, the assumptions we make when we theorize about them, and on their own beliefs about the good, values, duty, rationality, freedom, and moral judgment. *Four credit hours.*

PL243f Environmental Ethics Beginning in the 1970s some philosophers began to seriously consider the ethical aspects of human relationships to the nonhuman natural world. Aims to familiarize students with the variety of philosophical ethics that has been developed to address the environmental crisis and its many dimensions. Students will accomplish this not only by reflecting theoretically on topics such as the value of nonhuman nature, anthropocentrism and ecocentrism, environmental justice, animal liberation, food issues, and sustainability, but also through civic engagement with local community partners. Previously offered as Philosophy 298 (Spring 2011). *Four credit hours.* **ELMORE**

[PL253] Skepticism East and West For as long as there have been philosophers engaged in passionate pursuit of knowledge, there have been skeptics critical of the entire enterprise. Can we really know the Truth about anything? For that matter, how important is it for us to know the Truth? Skeptical thinkers have appeared in all times and cultures. We will engage with three venerable texts: the *Zhuangzi* from ancient China, Nagarjuna's writings on the *Middle Way* from ancient India, and the *Outline of Skepticism* by Sextus Empiricus from ancient Greece. Our goal is to put these authors into dialogue and then join in that dialogue. *Prerequisite:* A prior course in philosophy. *Three credit hours.*

[PL258] Advanced Logic Further investigations into symbolic logic and its extensions, with special attention to modal logic and some attention to metatheoretic results. *Prerequisite:* Philosophy 151. *Four credit hours.*

PL265s Chinese Philosophy An introduction to major thoughts, texts, and thinkers in the "classical" period of Chinese philosophy, which covers roughly the sixth through the third centuries BCE (known as the Warring States period). We will cover Confucius, Mozi, Mencius, Zhuangzi, Laozi, Sunzi, Xunzi, Han Feizi, the *Yijing* or *Book of Changes*, and other important texts. Provides an overview of the philosophical questions that motivated thinkers in early China, and aims to provide an appreciation for how various answers to these questions have shaped East Asian civilizations generally. *Four credit hours.* **L** BEHUNIAK

[PL266] Buddhist Philosophy Examines the philosophical dimensions of the rise of Buddhism in India and its spread across East Asia. After an introduction to the historical Buddha and to Buddhist philosophies in India, we will examine the major schools of Buddhist philosophy in China and the dominant schools of Zen Buddhism in Japan, all in chronological order and with attention given to the development and transformation of key philosophical ideas. Questions pertaining to the nature of reality, time, causality, self, mind, truth, language, and the relation between theory and practice are explored. *Four credit hours.* **L**

PL274s Philosophy of Religion An examination of some principal philosophical issues in the area of religion, including the existence of God, divine attributes in relation to time, space, and the natural world, the origin and content of religious experience, issues regarding faith and its object, and the function of religious symbolism. Readings include both critics and defenders of the

religious standpoint. *Prerequisite:* One course in philosophy. *Four credit hours.* S BEHUNIAK

PL277fs Reuman Reading Group Faculty and students jointly select, read, discuss, and argue about a philosophical text in regular, intellectually rigorous, but free-wheeling and informal sessions that provide an opportunity to indulge our passion for philosophy. *Prerequisite:* Philosophy major or minor. *One credit hour.* COHEN

PL297f Business Ethics Investigates questions of the ethical in relation to business and economics, examining in particular the history, development, and ethical character of the corporation as the dominant economic institution of the modern world. Issues addressed will include the history of economics, freedom, individualism, responsibility, industrialization, and neo-liberalism as well as critiques of capitalism, Marxism, disaster capitalism, empire, and the military-industrial complex. Readings from Aristotle, Aquinas, Locke, Smith, Madison, Marx, Friedman, and Naomi Klein. *Four credit hours.* ELMORE

[PL311] Philosophical Approaches to Global Justice Recent philosophical theorizing regarding global justice. Topics include our responsibilities as regards global poverty, the definition and causes of terrorism, the nature of collective responsibility, the ethical implications of the nation state. Gives particular attention to philosophers who have left the ivory tower by putting their theories into action such as Peter Singer, Thomas Pogge, and Martha Nussbaum. Students have the option of putting theory into practice through a civic engagement project. *Prerequisite:* Two courses in philosophy. *Four credit hours.* I

PL314s Karl Marx and Marxist Philosophical Thought Beginning with Marx's and Engels's primary texts, we then examine the influence of Marxist philosophical thought on economic theory, revolutionary theory, cultural criticism, feminism, and aesthetic theory. *Four credit hours.* S GORDON

[PL316] Metaphysics What is the nature of space and time? How do things persist through change? What is the relationship between cause and effect? How are parts and wholes related? What is the ontological status of universals? How are things individuated? These and similar questions are treated in this general survey of metaphysics. *Prerequisite:* Two philosophy courses. *Four credit hours.*

PL317f Philosophy of Science A consideration of some major 20th-century conceptions of what scientists aim to do, what theoretical structures they employ in pursuing their aims, and what legitimates these structures. Science seems to be constrained by experience in distinctive ways, but it also ventures far beyond experience in pursuing its theoretical and explanatory aims. These issues are approached historically by examining the rise and fall of the project known as logical empiricism (or logical positivism). *Four credit hours.* COHEN

[PL318] Philosophy of Nature *Philosophy of Nature* included the study of physical existence, living nature, and cosmology, and reigned from Aristotle's time to the scientific revolution, when it was eclipsed by modern science. Students will encounter answers to the questions What is nature? What is characteristic of the dominant scientific understanding of nature? Are there more and less adequate ways of conceptualizing the natural world? Is the environmental crisis the result of defective ways of thinking about and relating to nature? How do the history and philosophy of ecology relate to the tradition of nature philosophy? Readings range from Aristotle to contemporary philosophy, history, and social studies of ecology. *Prerequisite:* One philosophy course. *Four credit hours.*

[PL328] Radical Ecologies Radical ecologies interrogate our everyday, scientific, and metaphysical conceptions of nature, they emphasize that environmental problems in human-to-nature relations originate in human-to-human relations (e.g., gender, class, and race relations), and they call for comprehensive social and cultural changes through their critiques of existing social forms. They critically explore the historical, cultural, ethical, political, economic, and technological aspects of the place of the human in nature. Readings from anarchist social ecology, deep ecology, ecofeminism, and ecosocialism. *Prerequisite:* One philosophy course. *Four credit hours.*

PL337s Philosophy of Humor What makes something funny? Is there a logic to jokes? What unites puns, slapstick, and satire? Does saying "It's only a joke" excuse offensive jokes? Is a sense of humor a virtue? Is humor a proper subject for philosophy? Historically important theories from Aristotle, Hobbes, Kant, Schopenhauer, Bergson, and Freud will lead us to contemporary debates about the logic, ethics, and aesthetics of humor as well as its cognitive and social aspects. Previously offered as Philosophy 398 (Spring 2013). *Prerequisite:* Three philosophy courses. *Four credit hours.* MOLAND

[PL338] Philosophy of Language Philosophy took a linguistic turn in the 20th century: philosophers have come to suppose that reflection on the nature of language and the linguistic representation can help solve longstanding philosophical problems. The development of the philosophy of language and its success, with special attention to the role of metaphor. *Prerequisite:* Philosophy 151. *Four credit hours.*

PL352f American Philosophy An introduction to classical American philosophy (roughly 1870-1945), with a focus on pragmatic naturalism as a response to European forms of empiricism and idealism. Begins with the transcendentalist thinker Ralph Waldo Emerson and concludes with contemporary neo-pragmatist Richard Rorty. Features close study of thinkers most representative of the "classical" period: Peirce, James, Dewey, Addams, Mead, and others. Students acquire a solid historical, cultural, and philosophical understanding of what is quintessentially "American" about American philosophy and how it relates to other philosophical traditions. *Prerequisite:* One course in philosophy. *Four credit hours.* H BEHUNIAK

PL353s Contemporary Analytic Philosophy At the turn of the 20th century, G. E. Moore and Bertrand Russell revolutionized the way we philosophize. Their new methods focused intensely on language, radically altering philosophy's agenda: old questions got new answers, new questions were raised, more attention was paid to the nature of philosophy itself. It culminated in Wittgenstein's extraordinary *Tractatus Logico-Philosophicus*—and a discipline in a crisis of self-identity. The first articulate responses in mid-century were Logical Positivism and Ordinary Language Philosophy, but the contours of contemporary philosophy and its main voices, such as Kripke's Realism or Rorty's Neo-Pragmatism, are still best understood against this historical backdrop. Provides context for entering contemporary philosophical debates. *Prerequisite:* Two philosophy courses. *Four credit hours.* COHEN

[PL355] Kant and German Idealism The years between the publication of Kant's *Critique of Pure Reason* (1781) and Hegel's *Phenomenology of Spirit* (1806) are among the richest in the history of philosophy. Inspired by the French Revolution, questions about Germany's political future, and attempts to respond to scientific advances, philosophers struggled to articulate a description of modern personhood, aesthetics, and politics. Focus is on several figures, including Kant, Fichte, Hölderlin, Novalis, Schlegel, Schelling, and Hegel. Through submitting detailed questions on the readings and writing essays that include secondary literature, students develop writing and critical-thinking skills. *Prerequisite:* Two courses in philosophy. *Four credit hours.* H

PL359f 19th-Century Philosophy Philosophy in the 19th century began with the assertion by great systematic philosopher G.W.F. Hegel that what is rational is actual and what is actual is rational; it ended with Nietzsche's virulent attacks on the entire Western rationalist tradition. Between these benchmarks we find Karl Marx's claim that philosophy's job is not to understand the world but to change it; John Stuart Mill's articulation of utilitarianism; and Kierkegaard's philosophy of existential renunciation. A survey of these and other philosophers along with a study of the social upheaval and scientific advances to which they reacted. *Prerequisite:* Philosophy 232. *Four credit hours.* H MOLAND

[PL373] History of Medieval Philosophy The evolution of philosophical debate in the Latin West from Augustine to Ockham, with particular focus on the problems of the reconciliation of faith and reason, of the metaphysics of universals, and of the sources and possibilities of human knowledge. *Prerequisite:* Philosophy 175 or 231. *Four credit hours.* H

[PL374] Existentialism An examination of the individual, freedom, death, meaning, value, nihilism, authenticity, responsibility, and faith in the works of Nietzsche, Heidegger, Camus, Sartre, de Beauvoir, Buber, and black existential philosophers. *Prerequisite:* One course in philosophy. *Four credit hours.*

PL378s Contemporary Continental Philosophy An exploration of the most significant themes and thinkers in French and German thought from the early 20th century to the present. Movements and schools of thought covered may include phenomenology, hermeneutics, existentialism, French empiricism, psychoanalysis, critical theory, feminism, (post)structuralism, deconstruction, science studies, and recent speculative realism. Through close reading and practiced writing students will engage with the question "What is philosophy?" *Prerequisite:* Philosophy 232 or 359. *Four credit hours.* ELMORE

[PL381] Philosophers in Focus: Plato A concentrated study of a selection of Plato's dialogues and some scholarly articles, centered around a given theme. Students will gain deep understanding of the theme, as well as its connection to Plato's larger philosophical project. *Prerequisite:* Philosophy 231. *Four credit hours.*

[PL383] Philosophers in Focus: Aristotle A close examination of some text(s) of Aristotle's, along with relevant secondary literature. The topic will change from time to time, depending on which work(s) we read. Texts most likely to be the focus in any given semester include poetics, politics, ethics, and rhetoric. *Prerequisite:* Philosophy 231. *Four credit hours.*

[PL384] Philosophers in Focus: John Dewey During the first half of the 20th century, John Dewey (1859-1952) was referred to simply as "America's Philosopher." After a brief period of neglect, there has been a resurgence of interest in his work, and today Dewey studies are as vital as ever. Close reading of some of Dewey's central works. *Prerequisite:* Two philosophy courses. *Four credit hours.*

[PL386] Philosophers in Focus: Immanuel Kant Working knowledge of Kant's philosophy is indispensable for an understanding of virtually all contemporary philosophical schools. The aim is to develop an understanding of the systematic whole of Kant's critical philosophy. Select portions of all three critiques, *Critique of Pure Reason* (1781), *Critique of Practical Reason* (1788), and *Critique of Judgment* (1790), will be examined. We will also discuss the historical reception of Kant and Kantianism. Most of the term will be spent on the *Critique of Pure Reason*, addressing the other critiques directly in the last third of the course. *Four credit hours.*

[PL387] Philosophers in Focus: William James An examination of the thoughts and writings of one of America's greatest thinkers, William James. We will explore his most important and groundbreaking ideas, which include the stream of consciousness, habit, radical empiricism, pure experience, the will to believe, pragmatism, and humanism. Also, his career-long assault upon the idea of the "Absolute," an idea that James insisted should be replaced by a notion of "Pluralism." The objective is to develop an appreciation for James's philosophical vision, to understand its importance to philosophy, and to recognize its place in the larger context of the American experience. *Prerequisite:* Two courses in philosophy. *Four credit hours.*

[PL388] Philosophers in Focus: Adam Smith Most of us know Adam Smith (1723-1790) as the author of the *Wealth of Nations* (1776). Smith envisioned his groundbreaking work in political economy as part of a grand system rooted in the moral psychology and philosophy of his *Theory of Moral Sentiments* (1759), which has seen a recent boom in attention from philosophers. We begin by discussing some of Smith's most important influences, which include the moral psychologies and philosophies of Hutcheson (1694-1746) and Hume (1711-1776). Then we will read significant portions of Smith's *Theory of Moral Sentiments* as well as selections from the *Wealth of Nations*. *Four credit hours.*

[PL389] Philosophers in Focus: Ludwig Wittgenstein A close encounter with Wittgenstein, one of the great minds and central figures of 20th-century philosophy, with attention paid to both his rigorous early work, "Tractatus," and his enormously influential later work, "Philosophical Investigations," with its critiques of essentialism and foundationalism. *Prerequisite:* Two philosophy courses. *Four credit hours.*

[PL390] Philosophers in Focus: A. N. Whitehead Focuses on the work of Alfred North Whitehead (1861-1947). Philosopher, mathematician, and central figure in the field of "process philosophy," Whitehead produced a series of late-career works devoted to speculative metaphysics and to the historical role of metaphysical ideas in Western civilization. His works include a seminal contribution to the area of metaphysics, *Process and Reality*. We will read several of Whitehead's works and explore the contemporary significance of his contributions. Work will involve close reading, argumentative writing, and the analysis of difficult ideas through collective discussion. *Prerequisite:* Philosophy 231, 232, and two additional courses in philosophy. *Four credit hours.*

PL483f, 484s Philosophy Honors Program Research conducted under the guidance of a faculty member and focused on an approved topic leading to the writing of a thesis. A 3.25 major average at the end of the senior year, a grade of A- or better on honors work, a public presentation, and final approval by the department are conditions of successful completion of this program. *Prerequisite:* Senior standing, a 3.25 major average at the end of the junior year, and permission of the department. The honors tutor must be a member of the philosophy faculty. *Four credit hours.* FACULTY

PL491f, 492s 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

PHYSICS

In the Department of Physics and Astronomy.

Chair, Professor Duncan Tate

Professors Robert Bluhm, Charles Conover, and Duncan Tate; Assistant Professors Jonathan McCoy and Elizabeth McGrath; Faculty Fellow Yoshihiro Sato; Teaching Associate Lisa Lessard

Physics studies nature and how things work on levels ranging from the smallest subatomic and atomic scales, through intermediate scales describing matter in its various forms, up to the largest astrophysical scales. Physics students acquire skills in mathematical calculation, experimental measurement and instrumentation, theoretical and numerical modeling, scientific writing, and oral presentation. Flexible major and minor programs are designed to fit within a liberal arts education and to provide preparation for careers or advanced training in science, teaching, business, medical professions, and engineering. The department welcomes students from all majors and with diverse backgrounds.

The introductory course sequence, Physics 141 (or 143) and 145, provides a solid basis for further work in physics as well as preparation for medical school and advanced study in other sciences. These courses also provide excellent preparation for students who plan to enter professions such as law, teaching, and business. The intermediate and advanced course offerings in the department provide a strong background for graduate study in physics, astronomy, engineering, and interdisciplinary fields such as biophysics, environmental science, medical physics, and bioengineering.

Emphasis is placed upon independent work and cooperative research with the faculty in atomic, molecular, and optical physics, condensed-matter physics, theoretical physics, and astronomy. All faculty members have active research programs that involve undergraduate contributions. Research projects make use of the department's well-equipped laboratories, computer workstations, and supporting machine, electronic, and technical shops.

Students seeking a career in engineering may consider applying to an exchange program in which both a bachelor of arts and a bachelor of engineering can be earned upon successful completion of three years at Colby and two years at Dartmouth College. Students should consult with the engineering advisor before selecting their first-semester courses.

Physics 141, 145, 241, and 242 form a full introduction to classical and 20th-century physics. For students with a previous background in physics and calculus from high school, Physics 143 may be taken instead of Physics 141.

Requirements for the Physics Major

Physics majors have a lot of flexibility in choosing the courses that are most appropriate for them. Students should work closely with their advisors in selecting courses to fulfill the requirements for the major. Not all upper-level elective courses are offered every year. Physics 415, taken in the fall of the senior year, involves completing an independent project, internship, or research in physics or a related field. All students are invited to attend the colloquia presented by faculty, senior students, and visiting

scientists; senior physics majors are required to participate by enrolling in Physics 401, 402. The point scale for retention of the major applies to all courses taken that can satisfy the requirements listed below. No requirements for the major may be taken satisfactory/unsatisfactory. Physics majors receive Distinction in the Major upon graduating if they have a grade point average of at least 3.5 in physics and mathematics.

Required Physics Courses (unless exempted by advanced placement)

Physics

- 141 Foundations of Mechanics (or 143 Honors Physics)
- 145 Foundations of Electromagnetism and Optics
- 241 Modern Physics I
- 242 Modern Physics II
- 401-402 Senior Physics and Astronomy Colloquium
- 415 Physics and Astronomy Research (Physics 483-484 for students completing the honors major)

Mathematics and Computer Science Courses: Choose four (unless exempted by advanced placement)

Computer Science

- 151 Computational Thinking

Mathematics

- 121 Single-Variable Calculus (or 161 Honors Calculus I)
- 122 Series and Multi-Variable Calculus (or 162 Honors Calculus II)
- 253 Linear Algebra
- 262 Vector Calculus
- 311 Ordinary Differential Equations

Elective Courses: Choose at least three. At least two must be 300-level or higher physics courses, and at least one 300-level or higher physics course must be taken at Colby.

Astronomy

- 231 Introduction to Astrophysics

Biology

- 274 Neurobiology

Chemistry

- 255 Nuclear Magnetic Resonance
- 341 Physical Chemistry

Mathematics

- 332 Numerical Analysis

Physics

- 254 Essential Electronics
- 311 Classical Mechanics
- 312 Physics of Fluids
- 321 Electricity and Magnetism
- 332 Thermodynamics and Statistical Mechanics
- 333 Experimental Soft Matter Physics
- 334 Experimental Atomic Physics
- 335 General Relativity and Cosmology
- 336 Condensed Matter Physics
- 338 Nuclear and Particle Physics
- 431 Quantum Mechanics

Honors in Physics

In the junior year, physics majors may apply for admission to the honors program. A 3.25 grade point average in physics and mathematics courses is normally 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.

Requirements for the Honors Major

In addition to fulfilling the requirements for the basic physics major, students must take three additional 300-level or higher physics courses and one additional 200-level or higher mathematics course. In fulfilling these requirements, students must take at least one upper-level experimental course (Astronomy 231, Physics 254, or 334). In their senior year, they must also take Physics 483-484 Independent Honors Project in the place of Physics 415. A written honors thesis is required.

Students considering graduate school in physics or astronomy are strongly encouraged to take all of the following courses: Mathematics 253, 262, 311, 352, Physics 254, 311, 321, 332, and 431.

Requirements for the Minor in Physics

Physics 141 (or 143), 145, 241, 242 (or a physics course numbered 300 or above), Mathematics 121 (or 161), 122 (or 162).

No requirements for the physics minor may be taken satisfactory/unsatisfactory.

Course Offerings

PH141f Foundations of Mechanics A calculus-based survey of classical Newtonian mechanics, including kinematics, forces, work and energy, momentum, gravity, oscillations, and waves. These topics are developed further in discussions, labs, and problem-solving assignments. May not be taken for credit if the student has earned credit for Physics 143. *Prerequisite:* A working knowledge of high school or college calculus, or concurrent enrollment in Mathematics 121 or 161. *Four credit hours.* **N,Lb** MCCOY

PH143f Honors Physics An accelerated, calculus-based, introductory course on Newtonian mechanics supplemented with some coverage of additional special topics. Intended for students who have had substantial courses in physics and calculus in high school. Topics in Newtonian mechanics include kinematics, dynamics, conservation laws, oscillations, and waves. Additional topics include special relativity and nuclear physics. Students acquire knowledge in these areas and skills for solving mathematical problems and doing laboratory work. May not be taken for credit if the student has earned credit for Physics 141. *Four credit hours.* **N,Lb** TATE

PH145s Foundations of Electromagnetism and Optics Explores the classical foundations of electrical and magnetic forces, electromagnetic waves, and optics, emphasizing the pioneering 19th-century experimental and theoretical work culminated by Maxwell's equations. Students will learn how electrical and magnetic force fields are described mathematically, how they are interrelated, and how the interrelations lead to a wide variety of physical phenomena. These topics are developed further in discussions, labs, and problem-solving assignments. Formerly listed as Physics 142. *Prerequisite:* Physics 141 or 143. *Four credit hours.* **N,Lb** CONOVER

PH231f Introduction to Astrophysics Listed as Astronomy 231. *Four credit hours.* **N,Lb** MCGRATH

PH241f Modern Physics I An introduction to the two central paradigms of non-Newtonian physics: Einstein's special theory of relativity and the quantum behavior of light and matter. The postulates of Einstein are presented and the consequences explored theoretically along with experimental evidence for relativity. The experimental evidence for quantum mechanics is considered from a historical perspective, beginning with Planck's quantum hypothesis for blackbody radiation through to the Bohr model of the hydrogen atom and the experimental evidence for the Schroedinger equation. Students will acquire skills in solving mathematical problems, advanced laboratory work, and scientific writing. Lecture, discussion, and laboratory. Students must be available for a self-scheduled lab outside of class time for approximately three hours every second week. *Prerequisite:* Physics 142 or 145 and Mathematics 122 or 162. *Four credit hours.* CONOVER

PH242s Modern Physics II An intermediate-level introduction to quantum mechanics and atomic physics. Topics include the Schroedinger equation, interpretation of the wave function, one-dimensional potentials, hydrogen atom, electron spin, exclusion principle, atomic structure, and atomic spectra. Lectures, discussions, and labs. Enrolled students must be available for a self-scheduled lab outside of class time for approximately three hours every second week. *Prerequisite:* Physics 241. *Four credit hours.* TATE

PH254s Essential Electronics An introduction to modern scientific 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. Normally offered every other year. *Prerequisite:* Physics 142 or 145. *Four credit hours.* SATO

PH311s Classical Mechanics Newton's laws, oscillatory motion, noninertial reference systems, classical gravitation, motion of rigid bodies, and Lagrangian and Hamiltonian mechanics. Lecture and discussion. *Prerequisite:* Physics 142 or 145, and Mathematics 122 or 162. *Four credit hours.* MCCOY

[PH312] Physics of Fluids All living things, from the smallest cells to the largest communities, are soaking in or swimming through the fluid environment of liquids and gases that covers the planet. Our understanding of fluid motion helps us build better airplanes, debate climate change, and discover new design principles in biology. We will view this subject as an exciting, interdisciplinary opportunity to see the laws of physics in action. Emphasis will be on a core set of basic concepts and mathematical tools used to describe fluids and explore a range of applications drawn from biology, chemistry, geophysics, and engineering. Formerly offered as Physics 398. *Prerequisite:* Mathematics 302 and Physics 242. *Four credit hours.*

PH321f Electricity and Magnetism A theoretical treatment of electrostatics and magnetostatics in vacuum and material

media through Maxwell's equations. Lecture and discussion. *Prerequisite:* Physics 142 or 145 and Mathematics 262 or 302. *Four credit hours.* SATO

PH332s Thermodynamics and Statistical Mechanics Examines the concepts of temperature, energy, heat, work, and entropy. Thermodynamic relations between these quantities are studied from both a microscopic and macroscopic point of view. The laws of thermodynamics are developed from an underlying statistical treatment. Topics such as heat flows, heat engines, phase transitions, chemical reactions, Bose-Einstein and Fermi-Dirac statistics, and blackbody radiation are discussed. Lecture and discussion. Normally offered every other year. *Prerequisite:* Mathematics 122 (or 162) and either Physics 242 (may be taken concurrently) or Chemistry 342 (may be taken concurrently). *Four credit hours.* MCGRATH

PH333s Experimental Soft Matter Physics An introduction to scientific research, focusing on soft matter physics and nonlinear science. Uses advanced experimental topics, such as Brownian motion, pattern formation, hydrodynamic instabilities, and chaos to provide basic training in modern interdisciplinary research methods. Strong emphasis will be placed on the use of computers and computer programming, image analysis, wet lab techniques, and other broadly applicable skills, including the reading and writing of scientific research articles. *Prerequisite:* Physics 242 and Mathematics 262. *Three credit hours.* MCCOY

[PH334] Experimental Atomic Physics Laboratory projects in modern atomic, molecular, and optical (AMO) physics. Experiments include observing the Zeeman effect in mercury using a grating spectrometer, Doppler-free diode laser spectroscopy, and magneto-optical trapping of rubidium atoms. Through these and other projects, students will learn cutting-edge techniques of modern AMO physics. In addition they will become familiar with, and be expected to engage in, communication of results both orally and in written form. Laboratory and tutorial. Some out-of-class participation required. *Prerequisite:* Physics 242. *Three credit hours.*

[PH335] General Relativity and Cosmology An introduction to Einstein's general theory of relativity, including a treatment of tensor analysis, Einstein's equations, Schwarzschild metric, black holes, expansion of the universe, and cosmology. *Prerequisite:* Physics 241. *Four credit hours.*

[PH336] Condensed Matter Physics An introduction to the properties of solid (condensed) matter. Topics may include bonding and crystal structure; diffraction of X-rays; thermal, optical, acoustical, electrical, and magnetic properties; energy band structure; and superconductivity. Students will research in more depth a chosen topic of current interest in condensed matter physics. *Prerequisite:* Physics 242. *Four credit hours.*

[PH338] Nuclear and Particle Physics Nuclear physics, including nuclear reactions and nuclear models, followed by elementary particle physics, including the quark model, leptons, and the strong and weak interactions. *Prerequisite:* Physics 242. *Four credit hours.*

PH401f, 402s Senior Physics and Astronomy Colloquium A colloquium series with presentations by visiting scientists, department faculty, and senior physics majors. Visitors and faculty present their current research. Seniors present formal oral presentations on their senior projects or honors theses. Nongraded. *One credit hour for the year.* MCCOY, SATO

PH415f, 416js Physics and Astronomy Research A guided research project on a topic in physics, astronomy, or a related area. Students may choose from a range of approaches, including literature searches, analytical and computational analyses, experimental data collection and analysis, and theoretical investigation. Some project components can be conducted off campus or as part of a team project. Physics 415 is required for all senior physics majors. *One or two credit hours.* FACULTY

PH431f Quantum Mechanics Study of the structure and interpretation of quantum mechanics at an advanced level. Quantum states and observables are described in terms of abstract state vectors and operators. Students learn about representations of state vectors and operators in terms of wave functions and differential operators or the tools of linear algebra: vectors and matrices. We will approach the abstract representation of quantum objects using the concrete example of spin-systems to provide insight into the fundamental principles of quantum mechanics. Issues concerning the nature of quantum reality are examined and discussed. Problems include short proofs involving operators, state vectors, and measurement theory. A core upper-level course that should be taken by students intending to go to graduate school in physics or a related area. *Prerequisite:* Physics 242 and Mathematics 253. *Four credit hours.* CONOVER

PH483f, 484s Independent Honors Project Research conducted under the guidance of a faculty member and focused on an approved topic leading to the writing of an honors thesis. *Two to four credit hours.* FACULTY

PH491f, 492s Independent Study Individual topics or research 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

PSYCHOLOGY

Chair, Professor Martha Arterberry

Professors Martha Arterberry and Edward Yeterian; Associate Professor Tarja Raag; Assistant Professors Travis Carter, Jennifer

We believe the best way to learn the science of psychology is by engaging our faculty and students in a collaborative search for new knowledge about human cognition, emotion, and behavior. This process begins with an understanding of the discipline's conceptual foundations, and it requires a firm grounding in methods of research design and statistical analysis. Psychology majors learn how to explain behavior from multiple perspectives, how to ask substantive questions and to use appropriate empirical methodologies to address those questions, how to communicate their findings clearly in written, oral, and visual forms, and how to interact with humans and animals following the ethical standards of the field.

An extensive program of laboratory research provides the means for students and faculty to work together to explore interesting phenomena in cognition, development, emotion, health, motivation, neuroscience, perception, personality, psychopathology, and social psychology. Civic engagement and the internship opportunities allow students to apply course content to real-world contexts

The concentration in neuroscience allows students to explore an interdisciplinary field combining the study of psychology and biology. More information on research in the various laboratories may be found on the department's website, colby.edu/psychology.

Students who major in psychology will graduate knowing how to ask good questions and how to find and communicate the answers to those questions. These skills are useful in any field of endeavor, especially for graduate study in psychology or other professional programs such as law or medicine and as general preparation for entry into business, educational, nonprofit, or governmental work settings.

Because Psychology 214 and 215 impart skills that are crucial for the required advanced work in collaborative research, students must maintain minimum grades of C in these courses in order to continue in the major. Psychology 214 and 215 should be taken in the sophomore year and no later than the junior year; these courses may not be repeated. All requirements for the major must be met in conventionally graded courses.

Requirements for the Major in Psychology

Psychology 111, 214, 215, 420; at least two courses from 241, 251, 253, 254, 259; at least two courses from 232, 233, 234, 236, 275; at least one seminar with an associated course in collaborative research; at least one other 300-level course. One year of laboratory experience in the natural sciences is recommended for all majors.

Requirements for the Major in Psychology: Neuroscience

Psychology 111, 214, 215, 233, 374 or 375, 420; at least two courses from 232, 234, 236, 254, 275; at least two courses from 241, 251, 253, 259; at least one seminar with an associated course in collaborative research. In addition, Biology 163, 164, and 274; at least one biology course from 225, 232, 276, 279, 315, 332, 373, 374. A student may not double major in biology with a concentration in neuroscience and psychology: neuroscience.

Honors in Psychology or Psychology: Neuroscience

Students who are invited by the department to participate in the honors program may submit a formal application near the end of the junior year. In addition to fulfilling the basic requirements for the psychology major, students must complete the honors research sequence (Psychology 483, 484). Upon vote of the department, the student will be awarded his or her degree "With Honors in Psychology" or "With Honors in Psychology: Neuroscience."

Course Offerings

PS111fs Introduction to Psychology An examination of classical and contemporary topics in psychology, including neuroscience, learning, memory, cognition, language, intelligence, development, personality, psychopathology, and social psychology. Students will begin developing skills that will enhance understanding of the discipline of psychology, including explaining behavior from multiple theoretical perspectives, conducting research and evaluating the results, applying research to real-world contexts, thinking about implications of research, and working collaboratively in a scientific context. *Four credit hours.* **S** FACULTY

PS120f The Brain, Revised Just as brains never stop developing and changing, so too can the written word sustain infinite revision. And just as beauty is in the eye of the beholder, the written word is there for the reader. Students will delve into the world of neuroscience to learn about writing from the perspective of the reader and the effective use of revision. They are not required to have any formal background in neuroscience and will learn about selected topics through a series of structured writing assignments in which they can target different audiences and experiment with different styles. *Four credit hours.* **W1** GLENN

PS198s Sports, Identity, and Cultural Context This variable-credit course uses the Campus Conversations on Race (CCOR) model of student empowerment and dialogue/exploration, not debate. Some participants, working with CCOR-trained facilitators and CCOR-advisors (staff/faculty), will lead discussions on the relationships of sports culture and identities intersecting with social class, race/ethnicity, gender, and sexuality. All students will participate in small group discussions, large group discussions

with the CCOR advisor, a movie-discussion event, and a closing event involving a guest speaker from an elite sport. Readings on stereotype threat and identity contingencies, and writing reflections will complement the discussions and class meetings.

Prerequisite: Permission of the instructor. *One or two credit hours.* RAAG

PS214f Research Methods and Statistics in Psychology I Along with Psychology 215, provides students with knowledge of research design and statistical tools for working with data, which will allow them to engage in original empirical research. Topics include descriptive and inferential statistics, literature review, hypothesis formulation, and issues of control and ethics in research. Students practice a variety of statistical tests, work with SPSS, powerful statistical software, and prepare a written proposal for an experiment following the stylistic conventions of the American Psychological Association. Lecture and laboratory. *Prerequisite:* Psychology 111 and another 200-level psychology course (may be taken concurrently). *Four credit hours.* Q SOTO

PS215s Research Methods and Statistics in Psychology II Continuation of Psychology 214. Topics include experimental design, analysis of variance (ANOVA), interpretation of complex factorial studies, and oral and written communication of findings following the conventions of the American Psychological Association. Collaborative laboratory activities center on design, data collection, analyses, and oral and written communication of an original empirical research project. Lecture and laboratory. *Prerequisite:* Psychology 214 and sophomore or junior standing. *Four credit hours.* ARTERBERRY

[PS231] History of Brain and Behavior Exploration of philosophical, historical, and scientific viewpoints on neural substrates of behavior, from prehistory through the 20th century. Emphasis on ways in which advances in understanding the nervous system are related to shifts in thinking about human nature and the bases of cognition, emotion, and action. Consideration of attempts to account for normal and abnormal behavior from neuroanatomical, neurophysiological, and neuropsychological perspectives. Includes critical reading and discussion of scientific articles, and related written assignments and oral presentation. *Prerequisite:* Psychology 111. *Three credit hours.*

PS232fs Cognitive Psychology Study of human cognition: how the cognitive system encodes, processes, and uses information. Emphasis is on the areas of pattern recognition, attention, memory, and language. We will explore these areas by discussing classic and contemporary research and the theories proposed to explain the observed phenomena. We will integrate findings from behavioral studies, neuroscience, and special populations to gain understanding of the basic processes underlying normal cognitive operations that are pervasive in everyday life. Readings and discussion of original papers and written assignments will supplement lectures and texts. *Prerequisite:* Psychology 111. *Four credit hours.* COANE

PS233fs Biological Basis of Behavior Broad survey of behavioral neuroscience will include instruction on neural anatomy and function; modulation of these systems by hormones, drugs, and disease; and the neural basis of many behaviors of interest to psychologists, including sex, sleep, learning, and memory. Students will gain a comprehensive working knowledge of the mammalian central nervous system in the context of psychology to use as they learn the historical and modern framework of specific questions by reading and discussing research articles and completing assignments. Assignments will prepare students to write a research proposal on one topic they will learn about and critically analyze in more depth. *Prerequisite:* Psychology 111. *Four credit hours.* GLENN

PS234j Theories of Learning A comparative examination of the scientific study of learning from the perspectives of classical conditioning, instrumental learning, and operant conditioning theorists: Watson, Thorndike, Skinner, Hull, Pavlov, Guthrie, Estes, Tolman, and others. Consideration of philosophical and historical antecedents, current issues, and applications to animal and human behavior. Includes critical reading and discussion of classic and modern scientific and popular articles, and related written assignments and oral presentation. *Prerequisite:* Psychology 111. *Three credit hours.* YETERIAN

PS236f Drugs, Brain, and Behavior An examination of relationships among drugs, nervous system, conscious experience, and behavior. Historical and legal as well as psychopharmacological aspects of a wide variety of licit and illicit substances will be surveyed, including cocaine, amphetamines, nicotine, caffeine, alcohol, opiates, marijuana, hallucinogens, psychotherapeutic and other prescription medications, and over-the-counter drugs. Includes critical reading and discussion of information from scientific and popular media, related written assignments, and oral presentation. *Prerequisite:* Psychology 111. *Four credit hours.* YETERIAN

PS241f Health Psychology An examination of the contributions of psychology to identifying factors that relate to health and illness, promoting and maintaining health, preventing and treating illness, and improving interactions between doctors and patients. Students will gain knowledge of methodologies for studying health, the role of biological, psychological, and social factors in health and illness, theories of health behavior, and designing interventions to promote health and manage illness. In addition, they will apply course content to real-life contexts. *Prerequisite:* Psychology 111. *Four credit hours.* REID MCCARTHY

PS251s Personality Psychology An individual's personality is their characteristic pattern of thinking, feeling, and behaving, together with the psychological mechanisms that underlie this pattern. In this introduction to personality science, students will critically engage with a variety of theories, methodologies, and research findings that influence current thinking about personality. Issues considered include approaches to studying personality; biological, social, and cultural bases of personality; conscious and unconscious personality processes; and influences of personality on behavior and life outcomes. *Prerequisite:* Psychology 111. *Four credit hours.* SOTO

PS253s Social Psychology An examination of major topics and current issues and research in social psychology. Includes self-perception and cognitive dissonance, social cognition, attitudes and persuasion, interpersonal attraction, social influence, altruism, aggression, group processes, judgment and decision making, and various special applied topics such as social psychology and politics, and the legal system. *Prerequisite:* Psychology 111. *Four credit hours.* CARTER

[PS254] Abnormal Psychology An examination of major paradigms, research, and current issues in abnormal psychology. Includes diagnostic classification, etiology, and clinical intervention strategies as applied to the major categories of mental disorder. Special topics such as treatment outcome research methods, professional ethics in mental health settings, and the importance of comorbidity in the study of psychopathology are addressed. *Prerequisite:* Psychology 111. *Four credit hours.*

PS259fs Lifespan Development A study of human development across the lifespan with emphasis on the general characteristics of development from birth to death. Various theories will be explored to explain developmental processes. Topics include perceptual, cognitive, social, and identity development; the role of families, communities, and culture in development; and death and dying. Students have the option to participate in civic engagement activities in the local community. This applied work helps students explore how to apply the findings of research or tenets of theory to real world contexts. Students with prior credit for Psychology 255 or 256 cannot receive credit for 259. *Prerequisite:* Psychology 111. *Four credit hours.* RAAG

PS275f Human Neuropsychology An examination of neural bases of normal and abnormal human cognition, emotion, and behavior, with integration of modern and classic data from experimental and clinical neuropsychology and neurology. Emphasis on functional neuroanatomy in sensory-perceptual, motor, and emotional-motivational function, in cognitive processes including learning, memory and language, in mental disorders, and in brain injury and disease. Includes critical reading and discussion of modern and classic scientific and popular articles and related written assignments and oral presentation. *Prerequisite:* Psychology 111. *Four credit hours.* YETERIAN

PS336f Seminar in Experimental Social Psychology Critical examination of various areas of research in social psychology, with an emphasis on current issues. Discussion topics may include self-regulation and goals, implicit identity, self-deception, embodied cognition, political beliefs and behavior, moral reasoning, social cognition, and consumer behavior. *Prerequisite:* Psychology 215 and 253, and concurrent enrollment in 337. *Four credit hours.* CARTER

PS337f Collaborative Research in Social Psychology Laboratory involving collaborative empirical research projects on topics discussed in Psychology 336. *Prerequisite:* Concurrent enrollment in Psychology 336. *One credit hour.* CARTER

PS339s Seminar in Personality Psychology With its companion, Psychology 340, trains students to be personality psychologists-informed consumers and producers of personality science. Students will critically engage with a variety of personality theories and research through reading, writing, and discussion. Issues considered include how specific habits of thinking, feeling, and behaving cohere into broader personality traits; how personality develops across the life span; and how personality influences behavior and life outcomes. *Prerequisite:* Psychology 215 and 251, and concurrent enrollment in Psychology 340. *Four credit hours.* SOTO

PS340s Collaborative Research in Personality Psychology Each student will become an expert about a specific issue related to personality. Working collaboratively, they will then design, conduct, and present a research project that contributes new scientific knowledge about this issue. *Prerequisite:* Psychology 215 and 251, and concurrent enrollment in Psychology 339. *One credit hour.* SOTO

[PS341] Seminar in Memory In-depth study of one or more areas of memory. Questions and issues in the field of memory are explored through reading and discussion of theoretical reviews and empirical research. Topics may include memory errors, the relationship between attention and memory, and how to apply principles of basic memory to educational settings. Evaluation of theories and interpretation of data within the main theoretical contexts will be achieved through reading and discussing original research articles. In-class discussion, as well as presentations and written assignments will assess the achievement of these goals. *Prerequisite:* Psychology 215 and 232, and concurrent enrollment in Psychology 342. *Four credit hours.*

[PS342] Collaborative Research in Memory Collaborative empirical research projects on topics discussed in Psychology 341. Students will conduct original empirical work addressing an original research question on a specific topic in memory being addressed in the seminar component. Following the guidelines of the American Psychological Association, students' competence in research and communication will be assessed through written assignments and oral presentations, both collaborative and individual. *Prerequisite:* Concurrent enrollment in Psychology 341. *One credit hour.*

[PS343] Seminar in Emotion Theory and Research Critical examination of various areas of research in emotion, with an emphasis on current issues. Discussion topics may include models of emotion, emotion antecedents and appraisal, emotional response (facial expression, subjective report, physiological arousal), emotion regulation, and dysfunctional emotion in the context of psychopathology. *Prerequisite:* Psychology 215 and 254, and concurrent enrollment in Psychology 344. *Four credit hours.*

[PS344] Collaborative Research in Emotion Laboratory involving collaborative empirical research projects on topics discussed in Psychology 343. Students design, conduct, and present original research on emotion. *Prerequisite:* Concurrent

enrollment in Psychology 343. *One credit hour.*

PS347f Seminar in Cognitive Development Study of children's cognition with a goal of understanding their increasing competency in eyewitness testimony. Focusing on 3- to 5-year-old children, current theories and empirical research are explored. Discussion topics may include memory development, information processing, perception, attention, and/or how the social context influences cognition. Reading and discussion of empirical research articles allow for development of skills for evaluating current empirical research, placing new data within a theoretical context, and explaining cognitive development from several theoretical perspectives. *Prerequisite:* Psychology 215, and either 232, 255, or 259, and concurrent enrollment in 348. *Four credit hours.* ARTERBERRY

PS348f Collaborative Research in Cognitive Development Collaborative empirical research projects on topics discussed in Psychology 347. Empirical work addressing an original research question on a topic pertaining to 3- to 5-year-old children's cognitive development. Collaborative and individual oral and written assignments, following the conventions of the American Psychological Association, evaluate students' research and communication competencies. Includes volunteering weekly in a local early-childhood program. *Prerequisite:* Concurrent enrollment in Psychology 347. *One credit hour.* ARTERBERRY

[PS349] Seminar in Neural Plasticity and Behavior Several topics within the field of behavioral neuroscience will be examined in depth with an emphasis on rat models of cognition, emotion, and motivated behaviors. Current and historical contexts will be examined and discussion topics will focus on varieties of neural plasticity and their relevance to behavior, including adult hippocampal neurogenesis, neuron morphology, neurotransmitter function, protein expression and how these plastic features pertain to memory consolidation, anxious and exploratory behaviors, stress reactivity and consequences, reward mechanisms, and/or social interactions. Reading and discussion of empirical and review papers will develop skills to critically evaluate and integrate published and generated data. *Prerequisite:* Psychology 215 and 233, and concurrent enrollment in Psychology 350. *Four credit hours.*

[PS350] Collaborative Research in Neural Plasticity Collaborative empirical research projects on topics discussed in Psychology 349. Empirical work addressing an original research question on a topic pertaining to a feature of brain plasticity and a corresponding behavioral construct will be conducted. Collaborative and individual oral and written assignments, following the conventions of the American Psychological Association, will be used to evaluate students' research and communication competencies. *Prerequisite:* Concurrent enrollment in Psychology 349. *One credit hour.*

PS352Af Sex and Gender Seminar Psychological principles as they relate to sex/gender/sexuality. Focus topics including theoretical perspectives of how the dimensions of sex/gender/sexuality are formed will be addressed in the first half; specific topics related to sex/gender/sexuality in the second. Focus topics are selected by students and have included dating violence, gender bullying, homophobic/transphobic bullying, domestic violence, and links between systems of discrimination (sexism/racism/homophobia/classism). Students are expected to participate in applied work or activism and to reflect on how to bridge the gap between research/theory and using research/theory in the real world to solve social problems linked to sex/gender/sexuality. *Prerequisite:* Psychology 255, 256 or 259, and permission of the instructor. *Four credit hours.* RAAG

PS352Bf Cognitive Aging Seminar As the world's population is graying, understanding the aging process is critical for social and policy decisions. Examines how psychological processes change as we age, with an emphasis on the cognitive aspects critical for maintaining independence and health. Key areas include attention, memory, and language processes, with an examination of how changes in these domains influence psychological well-being. Students will develop an understanding of issues related to aging, theoretical approaches to explaining age-related changes, differences between healthy and disordered aging, and what factors can reduce risks of cognitive decline and dementia. Presentations, discussions, and critical analysis of original papers will support learning goals. *Prerequisite:* Psychology 215 and permission of instructor. *Four credit hours.* COANE

PS354s Seminar in Emerging Adulthood Study of identity change in emerging adults. Current theories and empirical research on identity are explored with an emphasis on developmental processes. Discussion topics may include contexts of change, contextual triggers of change, scaffolding for healthy identity change, and intersectionality among identities. Students will determine the more specific focus of identities we study: religious, political, sexual, gender, ethnic/racial, etc. Reading and discussion of empirical research articles allow for development of skills for evaluating current research, placing new data within a theoretical context, and explaining identity development from several theoretical perspectives. *Prerequisite:* Psychology 215, and either 255, 256, or 259, and concurrent enrollment in 355. *Four credit hours.* RAAG

PS355s Collaborative Research in Emerging Adulthood Collaborative empirical research projects on topics discussed in Psychology 354. Empirical work addressing an original research question on a topic pertaining to emerging adult identity. Collaborative and individual oral and written assignments, following the conventions of the American Psychological Association, in addition to evaluating student research and communication competencies. *Prerequisite:* Concurrent enrollment in Psychology 354. *One credit hour.* RAAG

PS356s Seminar in Social Psychology and Health Critical examination of current issues in health psychology, with an emphasis on the social psychological approach to the study of health. Discussion topics may include whether, how, and for which individuals social relationships and the social environment affect health, theories of health behavior, and social psychological approaches to health behavior change. Reading and discussing empirical research articles will aid students in developing the skills to both critically evaluate and effectively communicate about current research. *Prerequisite:* Psychology 215, and either 241 or

253, and concurrent enrollment in 357. *Four credit hours.* REID MCCARTHY

PS357s Collaborative Research in Social Psychology and Health Collaborative empirical research projects on topics discussed in the seminar. Students will design, conduct, and present the findings of a research project that contributes new knowledge to the field of health psychology. *Prerequisite:* Psychology 215, and either 241 or 253, and concurrent enrollment in 356. *One credit hour.* REID MCCARTHY

PS374s Seminar: Psychology and Neuroscience Exploration of the vast intersection between the fields of psychology and neuroscience. Selected topics will be covered in depth to gain insight and understanding about how psychology has shaped and contributed to the field of neuroscience and how findings from neuroscience aid psychological research and theories. Topics may include developmental and degenerative neuropathology and the impact of environment, genetics, psychological factors, and sociocultural contexts over them. Students will read, critically evaluate, and discuss empirical and theoretical papers as they gain depth of knowledge on different topics. Students will be expected to present their ideas in oral and written form and will work on a collaborative writing project. *Prerequisite:* Psychology 233. *Four credit hours.* GLENN

PS375s Seminar: Human Neuropsychology Exploration of current and classic issues in human brain-behavior relationships, normal and abnormal, through critical reading and discussion of scientific literature in experimental and clinical neuropsychology and neuroscience, behavioral neurology, and neuropsychiatry. Topics may include neural bases of sensory-perceptual, cognitive, emotional-motivational, and motor processes; mental and neurological disorders; brain injury and disease; and drugs and medications. Includes oral presentations and written critical research reviews. *Prerequisite:* Psychology 233, 236, or 275. *Four credit hours.* YETERIAN

PS416fs Senior Empirical Research A senior independent empirical project conducted in one semester that addresses a question about human or animal behavior or mental processes. Students will be expected to carry out all phases of a research investigation, including a literature review, study design, data collection and analyses, and writing a final report. *Prerequisite:* Psychology 214, content area courses relevant to the research topic, and permission of the department. *Three or four credit hours.* COANE, GLENN

PS420fs Senior Integrative Seminar A culminating experience for students majoring in psychology, organized around the department's research colloquium series. Students will critically engage with a variety of current psychological research and will integrate theories, methodologies, and findings across areas of psychology. Specifically, students will attend research presentations by invited guest speakers, read companion papers selected by the speakers, meet in a seminar session to discuss each speaker's presentation, and write a final paper that integrates the theories, methodologies, or research findings of at least two colloquium speakers. *Prerequisite:* Senior standing in psychology and permission of the instructor. *Three credit hours.* YETERIAN

PS483f, 484s Honors Research I Under faculty supervision, students prepare a proposal and carry out an independent, empirical project culminating in the preparation of a paper of publishable quality and a formal presentation. A 3.50 major average at the end of the senior year is a condition of successful completion of this program. Application required during junior year. *Prerequisite:* A 3.50 major average at the end of the junior year and permission of the department. *Four credit hours.* FACULTY

PS483Jj Honors Research I *Noncredit.* COANE

PS491f, 492s Independent Study Individual projects, under faculty supervision, in areas in which the student has demonstrated the interest and competence necessary for independent work. Cannot be counted toward the psychology major or minor. *Prerequisite:* Permission of the instructor. *One to four credit hours.* FACULTY

RELIGIOUS STUDIES

Chair, Associate Professor Carleen Mandolfo

Professors Debra Campbell and Nikky-Guninder Kaur Singh; Associate Professors David Freidenreich and Carleen Mandolfo

The study of religion in a college curriculum involves the historical and comparative scrutiny of the religious traditions of Christianity, Judaism, Islam, Hinduism, Sikhism, Jainism, Buddhism, Taoism, 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 Religious Studies

A minimum of 10 courses, to include at least one from each of the following groups: Eastern religions (211, 212); Judaism and Islam (181, 182, or History 285); Christianity (121, 216, 217, 236, 255, 258, 259); and Bible (143, 144). The 10 required courses will include three religious studies courses at the 300 level or above; and a senior independent study project. The three required 300-level courses may not include courses from other departments or institutions. The senior independent study project may take one of three forms: a four-credit independent study (491 or 492) with a religious studies faculty sponsor, a two-semester

project in the honors program (483, 484) described below, or a Senior Scholars project with one mentor from the religious studies faculty. As part of the culminating experience, all seniors are required to present their independent research in a department symposium held at the end of the spring semester.

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

Honors Program in Religious Studies

Students majoring in religious studies may apply during their junior year for admission to the honors program. Students are expected to submit their proposal to the department chair by April 15. Admission is contingent upon GPA of 3.65 or higher in the major at the completion of their junior year. On successful completion of the work for the honors program, including a thesis, their graduation from the College will be noted as being "With Honors in Religious Studies."

Requirements for the Minor in Religious Studies

A minimum of six courses in religious studies, including at least one from each of the following groups: Eastern religions (211, 212); Judaism and Islam (181, 182, or History 285); Christianity (121, 216, 217, 236, 255, 258, 259); and Bible (143,144). The six required courses will include two religious studies courses at the 300 level or above. The two required 300-level courses may not include courses from other departments or institutions.

Courses From Other Departments That Can Serve as Electives in Religious Studies Major

Art

- 313 Art of the Early Middle Ages
- 314 Art of the High Middle Ages

English

- 231 Tolkien's Sources
- 364 Buddhism in American Poetry

Government

- 251 Israelis and Palestinians: Conflict and Accommodation
- 252 Politics of the Middle East

History

- 285 Foundations of Islam
- 317 The Gothic Moment: Paris and the Isle-de-France, 1100-1250
- 413 Joan of Arc: History, Legend, and Film

Music

- 254 Music of Meditation

Philosophy

- 114 Central Philosophical Issues: Nature and God
- 274 Philosophy of Religion

Course Offerings

RE117s A Passage to India: India and the Western Imagination Beginning with Walt Whitman's romantic journey toward the "soul" of the universe, Western attitudes towards India and India's encounter with Western culture will be studied. Literature and film include *A Passage to India*, *The Razor's Edge*, *The English Patient*, *Siddhartha*, *The Namesake*, *Gitanjali*, *My Son the Fanatic*, *Bend It Like Beckham*, and *Four Quartets*. Historical, political, religious, and visual context of the texts will be provided. A close reading of the texts for their aesthetic value, their existential disclosures, and as narratives on colonialism, racism, and orientalism. *Four credit hours.* L SINGH

[RE119] Sanskrit: The Sacred Language of Krishna and Gandhi The "divine" (*devanagari*) writing system of India, with an introduction to Sanskrit grammar and vocabulary. An exploration of some basic concepts of Hinduism and Buddhism with readings from the original texts of the *Upanishads* and the *Bhagavad-Gita*. *Three credit hours.*

RE120f Personal Writings about God What do I believe about God or the supernatural? Which values should guide my life, and how do I know? Why is there suffering in this world? How might I make sense of death? Students will learn to reflect upon and express in writing their own answers to these core religious/spiritual questions through critical engagement with the ideas of

prominent contemporary thinkers from various traditions as well as those of other members of the Colby community. In the process, students will develop skills as writers and critical thinkers while gaining deeper appreciation for the diversity and complexity of responses to some of life's fundamental questions. *Four credit hours.* **W1** FREIDENREICH

RE121j Catholic Church and Hollywood Explores various ways in which the histories of the Catholic Church and Hollywood intersect: in the works of God/church-obsessed directors (e.g., Alfred Hitchcock and Clint Eastwood); in Hollywood's treatment of Catholic teachings and ritual and of pivotal moments in the Catholic community's history; and in the Catholic hierarchy's attempt to act as Hollywood's censor. Designed to increase students' understanding of Catholic history and culture; provide practice in the art of discussing controversial religious topics; refine students' writing through brief, focused essays on Catholic films; and prepare students to reach their own conclusions about Catholics and Hollywood. *Three credit hours.* **H, U** CAMPBELL

RE143f Introduction to the Hebrew Bible/Old Testament Explores the best-selling book of all time by focusing on the first part of the Bible called the Tanakh by Jews and often referred to as the Old Testament by Christians. We will examine the original context of the texts as well as how these texts have impacted history and contemporary society in the development of laws, customs, literature, film, art, and the theological beliefs of Jews and Christians. *Four credit hours.* **L** MANDOLFO

RE144s Introduction to the New Testament Continues the exploration of the Bible begun in Religious Studies 143, although that course is not a prerequisite. We will examine the varied writings that compose the New Testament from social, historical, literary, and theological perspectives. Students will become familiar with the lives and teachings of Jesus and Paul and discuss their impact on our modern world, including their influence on classical and popular culture. *Four credit hours.* **L** MANDOLFO

RE181f Conceptions of Jews and Judaism A survey of the history of the Jewish people and the religion called Judaism from the biblical era through the Middle Ages, tracing the development of ideas, texts, beliefs, and practices that continue to influence Jewish life and thought today. Examines Christian and Islamic ideas about Jews and Judaism and the historical impact of inequality, prejudice, and persecution on Jewish society and culture. Students will acquire basic knowledge of the subject matter and will develop skills in the analysis of religious texts both as historical sources and as windows into the ways religious communities make sense of the world. *Four credit hours.* **H, I** FREIDENREICH

RE182s Jews, Judaism, and the Modern World A survey of the social, cultural, intellectual, and political history of the Jews of Europe, the United States, and Israel/Palestine from the 17th century to the present. Traces the emergence of contemporary Judaism in its various manifestations. In addition to developing basic familiarity with the subject matter, students will learn how to interpret specific ideas, movements, biographies, and works of cultural production within the framework of broader dynamics associated with Jewish life in modern times. *Four credit hours.* **H, I** FREIDENREICH

RE211s Religions of India A study of Hinduism, Buddhism, Sufism, 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 self, and their views of the social, as expressed in myth, art, and ritual performance. How do these Indian religious traditions enrich our "patchwork heritage" in the United States? Readings, slides, sacred music, and film clips will be used to introduce the respective traditions. *Four credit hours.* **S** SINGH

[RE212] Religions of China, Japan, and Tibet An examination of Confucianism, Taoism, Shinto, and Buddhism—the indigenous religions of China, Japan, and Tibet—tracing the entrance of Buddhism into China, Japan, and Tibet 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, the meditative experiences of Zen (haiku, swordsmanship, the tea ceremony, etc.), and the psychological and artistic practices of Tibet. *Four credit hours.* **S**

[RE216] Church History and Theology in Medieval Europe Listed as History 216. *Four credit hours.* **H**

RE217f Religion in the United States A historical approach to religion in the United States from the Colonial period to the present. Traces the evolution of the dominant Christian tradition and focuses upon pivotal moments in the development of American Judaism and selected indigenous traditions. Examines the diversity of contemporary American religion and the relationship between religion and popular culture. Intended to provide students with practice in the art of discussing and writing about the controversial topic of religion in America so that they can reach their own informed conclusions about American religion, now and throughout their lives. *Four credit hours.* **H** CAMPBELL

[RE219] Texts of Terror: Violence and the "Religions of The Book" From the practice of human and animal sacrifice in the Hebrew Bible to the "sacrifice" of Jesus in the Christian Scriptures to the horror of 9/11, an examination of the intersection of violence and religion as portrayed primarily in the texts and traditions of the three Abrahamic religions—Judaism, Christianity, and Islam. Sacred texts, works of literature, and current events that illustrate and explore the theme of sacred violence will be the focus. *Four credit hours.*

[RE221] Topics in Maine's Jewish History Maine is home to a distinctive yet under-researched Jewish community with deep historical roots. Participants in this civic engagement course will advance scholarly and popular understanding of the experiences of Jews in Maine by producing original works of oral- and document-based historiography. In the process they will learn skills of critical ethnographic historiography and effective oral and Web-based communication. Students will also explore the nature and

consequences of popular anti-Semitism and the ways in which American Jews have overcome this prejudice. *Three credit hours.* H, U

[RE224] Jewish Theology Listed as Jewish Studies 224. *Three credit hours.*

[RE226] Sociology of Martin Luther King Jr. Listed as Sociology 226. *Three credit hours.* S, U

RE233f Reading and Research in Biblical Hebrew Knowledge of Biblical Hebrew is an exciting and necessary skill for advanced biblical interpretation. Students will acquire a rudimentary but working knowledge of Biblical Hebrew, as well the concomitant research skills that will allow for enriching interpretation of these often mysterious but fascinating ancient texts. (Students should note that "Biblical" Hebrew and "Modern" Hebrew are not coequal.) Previously offered as Religious Studies 397 (Fall 2012). *Four credit hours.* L MANDOLFO

[RE236] Christianity in the Modern Era Examines critical turning points in the relationship between Christianity and modernity, including the Protestant Reformation; the encounter between religion and reason; the emergence and development of evangelical Christianity; Christianity's complex relationships with movements to fight racial, ethnic, gender, and class-based oppression. Designed to increase students' understanding of the evolution and diversity of Christianity, provide practice in discussing controversial religious topics, refine writing skills, and prepare students to reach their own conclusions about Christianity and its history. *Four credit hours.* H

RE244f Anthropology of Religion Listed as Anthropology 244. *Four credit hours.* I STROHL

RE246s Engaging Muslim Worlds Listed as Anthropology 246. *Four credit hours.* I STROHL

RE253s Mormons An examination of the Church of Jesus Christ of Latter-day Saints from its 19th-century origins to the present day: its history, theology, spirituality, and rituals. Attention to controversies over race and polygamy and to the Mormon Mystique. Designed to increase students' understanding of the Mormons, their history, and their church; provide practice in discussing controversial religious topics in a pluralistic setting; refine writing skills; and prepare students to draw their own conclusions about Mormons, their history, and their church. *Four credit hours.* H, U CAMPBELL

RE255f The Catholic Novel An examination of the Catholic novel as an act of the Catholic imagination, a personal narrative, an exploration of the meaning of Catholic assimilation into non-Catholic cultures, and a plea for change in the church or society. Provides students with an opportunity to explore Catholic theology and spirituality in depth, both in writing and in class discussions. Prepares students to reach their own conclusions about Catholics and their church. *Four credit hours.* L CAMPBELL

[RE256] The African-American Religious Experience A sociological analysis and historical overview of the diverse religious organizations, leaders, experiences, and practices of black people in the United States. Emphasis upon the predominant Afro-Christian experience, its relationship with the African background, contemporary African religions, other religions (e.g., Islam), political institutions, social change, urban problems, and the arts. Special attention to the role of black Christian women in church and society. Formerly offered as Religious Studies 356. *Four credit hours.* U

[RE259] Catholics An examination of the history and culture of the Catholic Church during the past century, with special emphasis on the recent past: Vatican II, Catholic social teachings, Catholic culture wars, and what makes Catholics different from other Christians. Intended to provide students with practice in the art of writing about and discussing controversial religious topics and help them to form their own opinions concerning Catholicism—past, present, and future. *Four credit hours.*

[RE275] Contemporary Wicca: Formalists, Feminists, and Free Spirits History, historicity, and practice of contemporary Wicca. One of the fastest-growing religions in North America, Wicca, often erroneously confused with Satanism, is an Earth-based religion centered on Goddess (and God) imagery stressing the sacredness of individuals and all life. Readings, videos on thea/ology, rituals, practices, and political activism of Wiccans. Experiential components (discussions with Wiccans, ritual design, participation in an open circle, personal use of divination) and questions: How does feminine divine imagery affect the development, structures, practices? How has feminism shaped Wicca in North America? Why are many Wiccans activists? Why is there public resistance to, discrimination against Wiccans? *Three credit hours.*

RE277j Religious Responses to Harry Potter Close reading of the Harry Potter novels will uncover some of the religions and ethics that have contributed to the world of Hogwarts. Students will research the principal voices in the discussion, develop an understanding of both Christian and contemporary Pagan religious expressions, and write their own evidence-based analysis of the question, what are the religious influences in the Harry Potter novels? *Three credit hours.* PUKKILA

RE297j Religious Influences of the Rev Martin Luther King Jr. Examines the Rev. Martin Luther King Jr. in the context of a significant interreligious interchange. The intellectual-activist relationships between King, Mahatma Gandhi, Howard Thurman, Malcolm X, and Abraham Joshua Heschel will be explored. The contemporary significance of their work and the relationship between mutual inspiration across religious lines and the pursuit of social change will be examined. *Three credit hours.* U NELSON

RE312s South Asian Women at the Crossroads: Tradition and Modernity Study of South Asian women as they contest issues of gender, sexuality, race, class, globalization. Includes novelists, poets, philosophers, translators, artists, filmmakers, and comedians. How do modernity and tradition intersect in their texts? How do literary ideals, religious traditions, societal issues overlap? How do literary creations convey the harsh reality of honor killings, dowry deaths, female feticides, widowhood, arranged marriages, purdah? How do they express their dislocation and hybridity? What is the role of language in identity formation? Of gender-inclusive translations of scripture? Of unique tropes and metaphors from South Asia for our own thinking and being in the West? *Four credit hours.* L, I SINGH

[RE317] Sikhism: Scripture, Sacred Music, and Art How does the sacred text translate into the daily life, music, literature, and even the physical identity of the Sikhs? How can their text influence Sikh gender politics? With its focus on Scripture, the seminar explores not only the Hindu and Islamic parameters within which Sikhism originated but also its encounter with British colonialism and the influence of mass migration in the modern world. *Prerequisite:* Religious Studies 117, 211, or 212. *Four credit hours.* S, I

[RE319] Bollywood and Beyond: South Asian Religions Through Film A study of South Asian religions through Bollywood and world art cinema. Focus will be on religious diversity, the partition of the Indian subcontinent, and topics of gender, sexuality, diaspora, and transnationalism. Films and assigned readings will provide historical, social, and aesthetic contexts. Goals are to expand students' knowledge of South Asia, to hone their verbal and writing skills, and to inspire awareness of and empathy for inequities and injustice. Attendance at a weekly evening film screening (to be arranged) is required. *Four credit hours.* L, I

[RE322] Food and Religious Identity An examination of the ways in which religiously inspired food practices and food restrictions relate to the establishment and preservation of communal identity. Explores sources from diverse religious traditions and time periods with an eye both to commonalities and to elements found only within specific communities. Students will develop proficiency in the contextual analysis of primary sources and the critical evaluation of secondary literature. *Four credit hours.* S

[RE333] Death and Spirituality An examination of selected examples of the rich and diverse literature about death and spirituality in the West, including historical and therapeutic studies, personal narratives, novels, and plays. Seeks to understand the experience of death and the challenges it poses for the terminally ill and their loved ones, medical practitioners, and caregivers. Designed to increase students' understanding of death and spirituality; provide practice discussing controversial topics related to death and spirituality; refine students' skills in oral and written communication through short reflections, daily discussions and a final project; and help students form their own opinions on death and spirituality. *Prerequisite:* Religious Studies 216, 217, 236, 258, or 259. *Four credit hours.*

RE357f Jesus Christ Superstar: The Bible in Film An examination of Hollywood's (and other filmmakers') obsession with retelling the stories of the Bible. Beginning with De Mille's classic *The Ten Commandments*, through Gibson's controversial *The Passion of the Christ*, including films that range in interpretative expression from literal to metaphorical—the former being an attempt to recreate the story, the latter being an attempt to reinterpret the story. Students also will learn some basic film theory as well as techniques for interpreting film. *Four credit hours.* A MANDOLFO

[RE381] Women and Gender in Islam Listed as History 381. *Four credit hours.* H, I

[RE384] Jewish Responses to Ethical Dilemmas An exploration of Jewish responses to genuinely difficult ethical choices and the ways in which Jewish authorities justify their normative opinions. Examines classical and contemporary responses to dilemmas in such fields as business and labor ethics, environmental ethics, and biomedical ethics, enriching Jewish sources with literature from other religious traditions and works by secular ethicists. Students will develop skills in the analysis and critique of ethical argumentation and the ability to examine and defend their own values. *Four credit hours.*

RE387j Jews and Muslims in Christian Thought The Christian tradition has a rich history of ideas about both Jews and Muslims. How do these ideas relate to one another? How did these intertwined ideas evolve during the Middle Ages and into modern times? What can we learn from the similarities and differences in these ideas about Christianity itself? Participants in this humanities lab course will together explore these questions, which have yet to receive sufficient scholarly attention. Through collaborative research, we will further the bounds of academic knowledge about Christian-Jewish and Christian-Muslim relations. *Three credit hours.* FREIDENREICH

RE398As Anti-Judaism, Orientalism, and Islamophobia How have Christian and other Western thinkers put ideas about Jews, Judaism, "Orientals," and Islam to work in making sense of the modern world? What are the similarities and differences between the nature and function of ideas about Judaism on the one hand and Islam on the other? Participants in this seminar will explore these questions through critical analysis of primary and secondary sources, in the process developing advanced reading, research, and presentation skills. *Prerequisite:* Permission of the instructor. *Three credit hours.* FREIDENREICH

RE398Bs Censoring Sisters A close examination of two condemned books by sisters (nuns): Elizabeth Johnson's *Quest for the Living God* (2007) and Margaret Farley's *Just Love: A Framework for Christian Sexual Ethics* (2006), how they came to be declared unorthodox by representatives of the Catholic hierarchy, and how the authors and their supporters responded to the hierarchy's actions. Students will gain insights into the dynamics of religious condemnation, censorship, and dissent in the

modern Catholic Church, practice discussing religious controversies, refine their writing skills, and form their own opinions about Johnson's and Farley's books and the hierarchy's actions. *Four credit hours.* CAMPBELL

RE483f, 484s Religious Studies Honors Program Research conducted under the guidance of a faculty member and focused on an approved topic leading to the writing of a thesis. *Prerequisite:* A 3.65 average in the major at the end of the junior year and permission of the department. *Four credit hours.* FACULTY

RE491f, 492s 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 German and Russian.

Chair, Associate Professor Arne Koch (German)

Professor Julie de Sherbinin; Assistant Professor Elena Monastireva-Ansdell; Language Assistant Aleksandra Lintcbakh

The major emphasizes Russian language, literature, history, and film in order that students develop a broad understanding of Russian culture in the past and the present. Students are encouraged to participate in extracurricular activities on the campus, including guest lectures, discussion group meetings, films, weekly Russian-table dinners or Russian teas, and an annual program of cultural events.

Students majoring in Russian language and culture are expected to study in Russia for at least one semester. Instructors advise beginning students carefully about January, summer, and semester programs. The Colby in St. Petersburg program offers students highly individualized study of Russian language, literature, and history, a full cultural program, and residence with Russian families.

Requirements for the Major in Russian Language and Culture

1. A minimum of seven courses (three or four credits) numbered above Russian 127 in the Department of German and Russian, including Russian 426 or 428, and at least one course each in 19th- and 20th-century Russian literature or film in English translation (chosen from 231, 232, 237, 242).
2. One course in pre-20th-century Russian history and one course in 20th-century Russian history (usually History 227 and 228).
3. A seminar in Russian literature, conducted entirely in Russian (Russian 426, 428).

The point scale for retention of the major applies to all courses offered toward the major. No requirements for the major may be taken satisfactory/unsatisfactory.

Requirements for the Minor in Russian Language and Literature

1. Four introductory Russian language courses: Russian 125, 126, 127, 128.
2. Two courses in Russian culture in English translation: one course in 19th-century literature and one course in 20th-century literature or film (chosen from Russian 231, 232, 237, 242).
3. One course studying Russian cultural texts in the original (chosen from Russian 325, 326, 425, 426, 428).

Note: In special circumstances, course substitutions for major and minor requirements may be made after extensive consultation with Russian program staff.

Russian majors and minors who are unable to study in Russia for a semester are strongly encouraged to enroll in one or more of the Jan Plan courses in St. Petersburg.

Russian majors and minors should broaden their study through courses related to Russian in other departments, particularly courses in history and government.

Course Offerings

RU113j The Literature and Art of St. Petersburg In St. Petersburg, Russia. Students read major St. Petersburg writers (Pushkin, Dostoevsky), and learn about art and architecture in lectures, museum visits, and city walking tours. Theater and concert performances are included. Residence is with a Russian family. Conducted in English; no knowledge of Russian required. Nongraded. Cost in 2014: \$3,300. Required meetings on campus in the fall. Early registration required. *Three credit hours.* MONASTIREVA-ANSDPELL

RU114j Russia's Transition Economy In St. Petersburg, Russia. Students study the Soviet centralized economy (militarization, industrialization, collectivization) and post-Soviet economics (taxation, inflation, currency reforms, banks, investment, oligarchs, entrepreneurship, stock markets, and foreign investment). Lectures and site visits; cultural program included. Residence is with a Russian family. Conducted in English; no knowledge of Russian required. Nongraded. Cost in 2014:

\$3,300. Required meetings on campus in the fall. Early registration required. *Three credit hours.* MONASTIREVA-ANSDELL

RU115j Russian Ethnography In St. Petersburg, Russia. Study of contemporary Russia and minority ethnic groups, including indigenous peoples of Siberia, the Russian north, Jews, and Cossacks. Field trips to ethnographical museums and urban neighborhoods; cultural program included. Residence is with a Russian family. Conducted in English; no knowledge of Russian required. Nongraded. Cost in 2014: \$3,300. Required meetings on campus in the fall. Early registration required. *Three credit hours.* MONASTIREVA-ANSDELL

RU120f Re-Imaging Russia: Contemporary Russian Cinema (in English) A writing-intensive examination of the mechanisms and dynamics of subverting, dismantling, and recycling Soviet mythical structures as a part of new national myth-building that accompanies the dramatic social, economic, ideological, and demographic changes in post-Communist Russia. Students will combine intellectual inquiry into changing representations of social structures, ethnic relations, and gender roles in Russia with the development of analytical skills and vocabulary necessary to think and write critically about film. *Four credit hours.* **A,W1** MONASTIREVA-ANSDELL

RU125f Elementary Russian I Introductory course enables students to acquire a high degree of competence in elementary Russian through communicative learning and interaction. Acquisition of grammar and vocabulary through substantial engagement in speaking repetition, memorization, role playing, and creative communication, which are reinforced by listening, readings, writing, and speaking assignments outside of the classroom. Cultural practices of Russians are studied through language. *Prerequisite:* Russian 125 is prerequisite for 126. *Four credit hours.* DE SHERBININ

RU125Jj Elementary Russian I Introductory course enables students to acquire a high degree of competence in elementary Russian through communicative learning and interaction. Acquisition of grammar and vocabulary through substantial engagement in speaking repetition, memorization, role playing, and creative communication, which are reinforced by listening, readings, writing, and speaking assignments outside of the classroom. Cultural practices of Russians are studied through language. *Three credit hours.* MONASTIREVA-ANSDELL

RU126s Elementary Russian II Continuation of first-year introductory course enables students to acquire a high degree of competence in elementary Russian. *Prerequisite:* Russian 125. *Four credit hours.* MONASTIREVA-ANSDELL

RU127f Intermediate Russian The second-year language sequence in Russian builds on the communicative abilities mastered in elementary Russian by active classroom engagement in conversation and vocabulary-building. Students study Russian culture through reading brief biographies of writers, watching film and Internet clips, and reading short fiction and poetry. The final stages of Russian grammar are introduced, practiced, and tested. Biweekly essay assignments increase writing skills, and oral tests allow students to develop fluency in speaking. *Prerequisite:* Russian 126. *Four credit hours.* MONASTIREVA-ANSDELL

RU128s Intermediate Russian The second-year language sequence builds on the communicative abilities mastered in elementary Russian by active classroom engagement in conversation and vocabulary-building. Students study Russian culture through reading and discussing short fiction and poetry, watching films and Internet clips, and writing essays. Russian grammar is reinforced, expanded, and tested. Regular oral tests help to develop fluency in speaking. *Prerequisite:* Russian 127. *Four credit hours.* DE SHERBININ

RU135fs Conversation Group An informal, weekly, small-group meeting appropriate for second-year students concurrently enrolled in Russian 126, 127, or 128. Topics for discussion include autobiography, education, leisure-time activities, travel, stores, and films. Conducted entirely in Russian. May be repeated for credit. Nongraded. *One credit hour.* LINTCBAKH

RU174f Chekhov and the Short Story (in English) Study of the American and British short story as it was influenced by the Russian master of the short story, Anton Chekhov, as well as short texts that engage questions raised by these writers regarding issues of social identity, equality, and inclusion. Emphasizes intensive development of writing skills with a focus on how to craft and support a strong argument in a variety of informal genres and expository essay assignments. Authors include Katherine Mansfield, Virginia Woolf, Sherwood Anderson, Eudora Welty, Bernard Malamud, Richard Wright, Alice Munro, and Raymond Carver. *Four credit hours.* **L,W1** DE SHERBININ

[RU231] Topics in 19th-Century Russian Literature (in English) Varying topics highlight a literary period, author, or genre. Conducted in English; no knowledge of Russian required. *Four credit hours.* **L**

[RU232] Topics in 20th-Century Russian Literature (in English) Varying topics highlight a literary period, an author, or a genre. Conducted in English. *Four credit hours.* **L**

[RU237] Gamblers, Madmen, and Murderers (in English) Selected stories and novels by world-renowned 19th-century Russian writers (Pushkin, Gogol, Lermontov, Dostoevsky, Tolstoy, and Chekhov) read with reference to critical theory on narrative, gender construction, authority and subversion, and madness. What is the relationship between protagonists and the Russian state? Emphasizes skills in symbolic reading and the development of cogent arguments in speaking and writing, including work with drafts of papers. First-year students are welcome. Conducted in English; no knowledge of Russian required. *Four credit hours.* **L**

RU242s Russian Cinema from Lenin to Putin (in English) A survey of major periods, genres, and themes of Russia's "most important art," including Soviet Revolutionary montage cinema of the 1920s (Kuleshov, Vertov, Eisenstein, Dovzhenko), Stalinist "easterns" and propaganda musicals of the 1930s and '40s (Vasiliev brothers, Aleksandrov), the post-Stalinist cinematic revival of the 1950s and '60s (Kalatozov, Tarkovsky, Muratova, Askoldov), and the post-Soviet search for new aesthetics, themes, and heroes (Balabanov, Bodrov, Zviagintsev, Sokurov). Topics include issues of gender, class, and ethnicity; the theory and aesthetics of Soviet and Russian filmmakers; the development of the Russian and Soviet film industry; issues of censorship, production, and film distribution. Conducted in English. *Four credit hours.* **A, I** MONASTIREVA-ANSDELL

RU325f Conversation and Composition Reading and analysis of literary and historical texts. Topics change each year. Fall 2013: Stalinism. Grammar review and continued practice in oral and written expression. Internet materials, YouTube clips, and films supplement the readings. Conducted in Russian. *Prerequisite:* Russian 128. *Four credit hours.* MONASTIREVA-ANSDELL

[RU326] Conversation and Composition Reading and analysis of literary and historical texts. Topics change each year. Spring 2014: Soviet Culture. Grammar review and continued practice in oral and written expression. Internet materials, YouTube clips, and films supplement the readings. Conducted in Russian. *Prerequisite:* Russian 325. *Four credit hours.*

RU335fs Conversation Group An informal, weekly, small-group meeting for intermediate/advanced conversation practice in Russian. Topics include contemporary film, current social and political issues, and reflections on cultural differences between the United States and Russia. Conducted entirely in Russian. May be repeated for credit. Nongraded. *Prerequisite:* Russian 127 or equivalent. *One credit hour.* LINTCBAKH

[RU346] 20th-Century Russian Poetry Weekly one-hour meetings focus on poems by one of the major 20th-century Russian poets, including Blok, Akhmatova, Tsvetaeva, Pasternak, Mandelshtam, and Brodsky. Readings in Russian; discussion in English. May be repeated for credit. *Prerequisite:* Russian 127. *One or two credit hours.*

RU425f 20th-Century Short Works: Russian Art and Politics Advanced grammar and continued practice in oral and written expression. Internet, film, and audio materials supplement textbook visual analysis and readings. Conducted in Russian. May be repeated for additional credit. *Prerequisite:* Russian 325. *Four credit hours.* **L** DE SHERBININ

RU426s The Political Novel A seminar that analyzes one major Russian novel. In spring 2014: Mikhail Bulgakov's *The Master and Margarita*, an imaginative novel that rewrites the Stalinist epoch through satire, black magic, and the Christ-Pilate narrative. Students present seminar papers in Russian at the CBB Russian Research Symposium. Conducted entirely in Russian. *Prerequisite:* Russian 425 or 427. *Four credit hours.* **L** DE SHERBININ

[RU428] The 20th-Century Russian Novel A seminar that analyzes one major Russian novel. Conducted entirely in Russian. *Prerequisite:* Russian 425 or 427. *Four credit hours.* **L**

RU491f, 492s 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

SCIENCE, TECHNOLOGY, AND SOCIETY

Director, Professor Paul Josephson

Advisory Committee: Professors Daniel Cohen (*Philosophy*), James Fleming (*Science, Technology, and Society*), Fernando Gouvêa (*Mathematics and Statistics*), Paul Josephson (*History*), Laurie Osborne (*English*), Leonard Reich (*Administrative Science and Science, Technology, and Society*), Dale Skrien (*Computer Science*), and Judy Stone (*Biology*); Associate Professors Jonathan Hallstrom (*Music*), Russell Johnson, (*Biology*), Laura Saltz (*American Studies*), Tanya Sheehan (*Art*), and Andrea Tilden (*Biology*); Assistant Professors Matthew Archibald (*Sociology*), Chandra Bhimull (*Anthropology and African-American Studies*), Melissa Glenn (*Psychology*), and Keith Peterson (*Philosophy*); Faculty Fellow Joseph Martin (*Science, Technology, and Society*); Faculty Members without Rank Lauren Lessing (*Museum of Art*) and Elizabeth Finch (*Museum of Art*)

Science, Technology, and Society (STS) is an exciting interdisciplinary field of study grounded in the history, philosophy, anthropology, and sociology of science and technology. It examines deep cultural roots of our technoscientific society and addresses pressing public policy issues. It constitutes a fundamental aspect of a liberal arts education and is excellent preparation for graduate study or future employment opportunities.

Science and technology have become increasingly important components of our world, changing the ways we live, work, and think. The well-being of individuals, nations, and ultimately our Earth depends in part on technoscientific developments that are part of the process shaping both the social fabric and the natural environment, both in America and globally.

Following an introductory core course, students in the STS Program choose from a variety of electives and complete a year-long senior research project. By doing so they gain an understanding of the historical and social dimensions of science and technology, become better-informed citizens of our high-tech society, and hone critical and valuable interdisciplinary skills involving writing, speaking, and creative thinking. Students pursuing a major or minor in STS require no special technical expertise.

Requirements for the Major in Science, Technology, and Society

The STS major has a core curriculum based on the research and teaching interests of the faculty. All courses are either U.S. or internationally focused and either science or technology focused. Majors must take three required courses and choose a minimum of eight electives from the list of STS-approved courses below. Courses taken abroad or otherwise not on this list require the approval of the STS Program director.

- ST 112: Introduction to STS (required)
- ST 485: Technology Matters (required)
- ST 486: Senior Project: The Craft of Research or ST 484 Honors (required)
- One 200-level or higher course in natural science or computer science beyond the all-college requirement
- One STS internationally-focused course (designated I)
- One STS U.S.-focused course (designated U)
- One STS science-focused course (designated S)
- One STS technology-focused course (designated T)
- Three approved STS electives

Electives are chosen from the list of STS approved courses to fulfill the I, U, S, and T foci, but a course that satisfies two or more foci may not be counted twice. In choosing the eight electives, students must take a minimum of three courses designated or cross-listed as ST. A student may not count more than two 100-level electives toward the major.

Senior Projects

All senior STS majors will take ST 485, which will prepare them for research through seminar readings, literature reviews, and proposal writing. This is the first part of a yearlong capstone experience in which students design and complete a final integrative project in science, technology, and society. This is followed by ST 486, an intensive research and writing experience with final public presentations. Any member of the faculty may serve as an advisor for STS senior projects.

Honors in Science, Technology, and Society

Students with a 3.5 GPA in the major (and at least 3.25 GPA overall) may request permission to undertake an honors thesis. They will enroll in STS 485 and meet with other STS seniors to prepare a literature review and proposal, which must be approved by a panel of faculty members. Students continuing in the honors program will enroll in ST 484 under the supervision of an advisor and second reader. Upon successful completion of the thesis and fulfillment of all requirements for the major, and, if a 3.5 GPA in the major is maintained, the student will be invited to deposit a copy of his or her thesis in Miller Library and will graduate "With Honors in Science, Technology, and Society."

Requirements for the Minor in Science, Technology, and Society

Science, Technology, and Society 112, 485, 486, two other STS courses, and at least two courses from the list of STS approved courses.

List of STS Approved Courses

* Key: International = I; U.S. = U; Science = S; Technology = T

Anthropology

- 112 Cultural Anthropology I
- 256 Land, Food, Culture, and Power I
- 341 Culture, Mobility, Identity I

Art

- 252 Medicine and Visual Culture U, S
- 285 History of Photography I, T

Biochemistry

- 362 Medical Biochemistry S

Biology

- 115 Biology of Women U, S
- 133 Microorganisms and Society U, S
- 164 Evolution and Diversity S
- 274 Neurobiology S
- 275 Mammalian Physiology S

Chemistry

- 112 Chemistry for Citizens U, S
- 217 Environmental Chemistry S

Computer Science

- 232 Computer Organization T

Economics

- 231 Environmental and Natural Resource Economics U
- 341 Natural Resource Economics U, S

Environmental Studies

- 118 Environment and Society U
- 234 International Environmental Policy I
- 265 Global Public Health I
- 271 Introduction to Ecology S
- 319 Conservation Biology S
- 366 Environment and Human Health I, T
- 494 Problems in Environmental Science S

History

- 245 Science, Race, and Gender S
- 246 Luddite Rantings U, I, T
- 364 Environmental and Health History in Africa I, S
- 394 Ecological History I, S
- 443 20th-Century Environmental History I, U, S, T
- 445 Nuclear Madness I, U, T
- 446 Global Health History I, S

Mathematics

- 376 History of Mathematics S

Philosophy

- 126 Philosophy and the Environment U, S
- 213 Philosophical Inquiries into Race I, S
- 217 Feminism and Science S
- 317 Philosophy of Science S
- 318 Philosophy of Nature S

Psychology

- 233 Biological Basis of Behavior S

Science, Technology, and Society

- 112 Science, Technology, and Society (required)
- 175 Science in Ancient Greece I, S
- 215 Weather, Climate, and Society I, U, S, T
- 253 Energy, Power, and the American Century U, T
- 271 History of Science in America U, S
- 297 Engineering Armageddon: Visions of Scientific Apocalyptic U, S, T
- 297J Democracy and Technology in the Contemporary World I, T
- 298 Automobile in American Life U, T
- 358 Climbing the Oil Peak I, T
- 484 Honors in STS
- 485 Technology Matters (required)
- 486 Senior Project: The Craft of Research (required)
- 491/492 Independent Study

Sociology

- 256 Global Health I
- 258 Health and Medicine U
- 261 Sociology of Organizations U
- 361 Substance Use and Abuse U

Course Offerings

ST112s Science, Technology, and Society Critical perspectives on the social aspects of science and technology in our lives,

in the world around us, and throughout history. Issues include gender, communications, war, and the environment. *Four credit hours.* **S** MARTIN

[ST175] Science in Ancient Greece Ancient Greek theories about the natural world began in wonder about its constituent elements. But as the Greeks acquired a philosophically sophisticated understanding of the nature of scientific explanations, their speculation soon gave way to the conceptual rigor of Aristotelian physics, the technical and encyclopedic accomplishments of Hippocratic medicine, and the mathematical exactitude of Ptolemaic astronomy. Fosters the skills needed for historical contextualization and textual interpretation, enabling us to trace the development of what became the foundations of Western scientific thinking. *Four credit hours.* **H**

[ST215] Weather, Climate, and Society A scientific introduction to the Earth's atmosphere and historical and social issues related to weather and climate. Topics include the atmosphere's composition, structure, and dynamics; air pollution, ozone depletion, natural disasters, and climate change. Includes lectures, an exam, quizzes, short essays, and a group project to be presented in a final poster session. *Four credit hours.* **N**

[ST217] Feminism and Science Listed as Philosophy 217. *Four credit hours.* **S, U**

ST233fs Biological Basis of Behavior Listed as Psychology 233. *Four credit hours.* GLENN

[ST245] Science, Race, and Gender Listed as History 245. *Four credit hours.* **N, U**

ST246s Luddite Rantings: A Historical Critique of Big Technology Listed as History 246. *Four credit hours.* **H, U** JOSEPHSON

ST252s Medicine and Visual Culture Listed as Art 252. *Four credit hours.* **A** SHEEHAN

ST253f Energy, Power, and the American Century, 1901-2001 A study of the development and use of energy sources in the United States during the 20th century, from the discovery of oil in Texas to the attack of Sept. 11, 2001, with emphasis on economic, political, military, social, and environmental factors. Students will gain an understanding of how our nation's evolving energy systems have brought us extraordinary strength and abundance but also have led to entangling military commitments and environmental problems while making us dependent on forces beyond our control. *Prerequisite:* Sophomore or higher standing. *Four credit hours.* REICH

ST256s Global Health Listed as Sociology 256. *Four credit hours.* ARCHIBALD

ST258f Health and Medicine Listed as Sociology 258. *Four credit hours.* ARCHIBALD

[ST261] Sociology of Organizations Listed as Sociology 261. *Four credit hours.* **S**

[ST271] History of Science in America A seminar on the social, intellectual, and institutional development of science in America from native contact to the present. Topics include scientists' roles in government, education, and industry; science in war; women in science; and the emergence of America as a leading scientific nation. *Four credit hours.* **H**

[ST285] History of Photography Listed as Art 285. *Four credit hours.* **A**

ST297f Engineering Armageddon: Visions of Scientific Apocalypse Examines apocalyptic imagery regarding science and technology in literature and film from 19th-century Romanticism to 21st-century techno-futurism. How and why do popular and professional conceptions of scientific responsibility and authority differ? What ethical considerations should guide scientific and technological progress? Where is the boundary between the artificial and the natural and how should we negotiate it? Who should mediate the advance and dissemination of scientific knowledge? Students will learn how responses to these questions have appeared within specific scientific and cultural contexts, including those of today. *Four credit hours.* MARTIN

ST297Bj The Automobile in American Life The automobile and its close cousin, the motor truck, were deeply involved in the transformation of American life during the 20th century, in business and industry, in labor and the economy, in geography, land use, and the environment, and in our national obsession with mobility. We will examine these multifaceted transformations and end with a brief look at the auto's uncertain future. *Three credit hours.* REICH

ST297Jj Democracy and Technology in the Contemporary World Explores the impact of technology on politics in the United States and Western Europe, with counterexamples from authoritarian regimes especially in the former Soviet Union. Combining historical analysis and political theory to explore important STS issues, we will analyze technological innovations that both threaten democratic institutions and provide new stimuli for their development (nuclear power and computers to name two). We will consider the ways in which technological developments have both enabled and undercut democratic movements and values, and have troubling implications for disasters and risk. *Three credit hours.* KASPERSKI

ST317f Philosophy of Science Listed as Philosophy 317. *Four credit hours.* COHEN

[ST318] Philosophy of Nature Listed as Philosophy 318. *Four credit hours.*

[ST321] Space, Steam, Speed: 19th-Century U.S. Science, Technology, and Culture Listed as American Studies 321. *Four credit hours.*

ST341f Culture, Mobility, Identity: Encounters in the African Diaspora Listed as Anthropology 341. *Four credit hours.* S, I BHIMULL

[ST358] Climbing the Oil Peak Societies worldwide have been exploiting greater and greater quantities of petroleum for more than 100 years, which has helped make us tremendously wealthy and dramatically changed our expectations and values. Examines the history of petroleum development since the early 20th century and issues confronting us as we approach the worldwide peak in oil production. This task comprises science, technology, economics, sociology, agriculture, and government, as well as military, environmental, and human-rights issues. Includes an examination of society-wide ramifications of the coming peak in oil production and considers viable alternatives to oil in decades ahead. Credit cannot be earned for both this course and ST356. *Prerequisite:* Junior standing. *Four credit hours.* S

ST361j Special Topics in Health and Medicine: Substance Use and Abuse Listed as Sociology 361. *Three credit hours.* ARCHIBALD

ST364s Environmental and Health History in Africa Listed as History 364. *Four credit hours.* H, I WEBB

ST394s Ecological History Listed as History 394. *Four credit hours.* H, I WEBB

ST443s Research Seminar: 20th-Century Environmental History Listed as History 443. *Four credit hours.* H, U JOSEPHSON

[ST445] Nuclear Madness Listed as History 445. *Four credit hours.* H

[ST446] Research Seminar: Global Health History Listed as History 446. *Four credit hours.* H

ST485f Technology Matters Seminar emphasizing classical, enduring issues involving the social study of science and technology. A senior capstone in preparation for a career. Students design, propose, and initiate a year-long project through broad reading, seminar discussions, written think pieces, a book review, thorough literature search, and preparation of a proposal and exploratory essay. Completion, typically in the spring but including a possible January internship, requires intensive research, writing, and presentation at a public seminar. Research funding may be available. Goal is to complete a project the student finds exciting and challenging and that will solidify her/his ability to conduct interdisciplinary research. *Prerequisite:* Senior standing. *Four credit hours.* MARTIN

ST486s Senior Project: The Craft of Research Written and oral communication of research. Students complete a final integrative project and present a public seminar. *Prerequisite:* Science, Technology, and Society 485. *Four credit hours.* MARTIN

ST491f, 492s Independent Study Independent study in areas in which 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

SOCIOLOGY

Chair, Professor Cheryl Townsend Gilkes

Professors Teresa Arendell, Cheryl Townsend Gilkes, and Thomas Morrione; Assistant Professors Matthew Archibald and Victoria Mayer

Studying sociology at Colby provides students with the conceptual frameworks and analytic skills required to understand how social forces shape people's lives. Students acquire expertise in qualitative and quantitative research methods and familiarity with standards used to assess data and published research. They learn how sociological theory helps us to analyze institutions, the dynamics of social and cultural change, and persisting inequalities relating to race, class, and gender. Small course enrollments foster direct student-teacher relations, intensive discussions, and close supervision of required writing projects. Department courses, events, and supervised research opportunities, often part of community-based learning, foster the development of critical and self-reflexive thinking as well as analytical and communication skills. Students are prepared through sociology to participate actively in the private and public sectors, an increasingly diverse democracy, and an even more diverse global community. Sociology majors are prepared for employment and graduate or professional school. In addition to sociology, majors pursue such career paths as law, medicine, public health, urban planning, business, advertising, social work, and education.

Requirements for the Major in Sociology

Sociology 131, 215, 271, 274, and 493, either 212 or 272, either 252 or 276, and four additional sociology courses, one of which must be a 300-level seminar. One course in another social science at the 200 level or above may be substituted for one 200-level elective. One elective may be taken in a study-abroad program. Sociology 215, 271, and 274 are to be completed before the senior year, typically during the second year.

Honors in Sociology

Seniors majoring in sociology may apply for the honors program by securing a faculty sponsor in the Sociology Department, a secondary faculty reader, and approval of the department as a whole. The program involves independent research conducted under the auspices of Sociology 483. To apply, a student must have a 3.25 overall grade point average and a 3.6 grade point average in the major or special permission of the department. Students may apply for the program at the end of the term prior to the semester in which they would begin honors work and no later than the second week of the term during which honors work begins. A maximum of six credits may be received, none of which may count toward the required elective credits in the major. Enrollment options include spring semester; spring semester and Jan Plan; fall semester; fall semester and Jan Plan; fall, Jan Plan, and spring semesters. The final product will usually consist of a research paper of 50 or more pages of superior quality.

Distinction in the Major

Distinction in the major upon graduation requires a 3.75 grade point average in the major and a 3.5 overall grade point average.

Note: Sociology 271 fulfills a quantitative reasoning requirement (Q). Sociology courses have limited enrollments.

Study Abroad

Department policy is that students majoring in sociology complete Sociology 215, 271, 274 and at least one of the other required courses (except electives and Sociology 493) prior to study abroad. Generally, students will receive credit toward the major for one course per semester, if that course is approved in advance by the department. Students majoring in sociology are urged to seek approval for a range of courses, in advance, to be prepared for possible cancellation of an approved course in any non-Colby-sponsored program abroad. Exceptions to the one-semester and core-course credit rules may be granted for students qualified to study abroad in the yearlong sociology program at the London School of Economics.

Course Offerings

[SO118J] Individuality and World Traveling What does it mean to live in a world that many have characterized as postmodern? What does postmodernity imply in terms of attitude toward selfhood, toward interpretation and knowledge gathering, toward crossing boundaries of cultural differences and, finally, toward envisioning social justice? A mixture of scholarly texts, fiction, and film will be employed to explore these questions. Emphasis on cultivating students' skills of critical thinking and expression. *Three credit hours.* **S**

SO131fs Introduction to Sociology Sociologists study processes by which people create, maintain, and change their social and cultural worlds. They investigate contemporary social issues and strive to explain relationships between what happens in peoples' lives and the societies in which they live. Sociology's research methods and theories apply to the full range of human behavior, from individual acts to global environmental, political, and economic change. An introduction to how and why sociologists study social and cultural phenomena such as inequality, race and ethnicity, gender, power, politics, the family, religion, social and cultural change, crime, and globalization. *Prerequisite:* First-year or sophomore standing. *Four credit hours.* **S, U** FACULTY

SO212f Introduction to GIS and Spatial Analysis Listed as Environmental Studies 214. *Four credit hours.* GIMOND

[SO212J] Introduction to GIS and Spatial Analysis Listed as Environmental Studies 214J. *Three credit hours.*

SO213f Schools and Society Listed as Education 213. *Four credit hours.* **U** HOWARD

[SO214] African-American Elites and Middle Classes Classical and contemporary sociological theories of stratification and race relations are used to explore the intersection of class and race-ethnicity in the social origins and historical roles of elites and middle classes in the African-American experience. Particular attention to the writings of Du Bois, Frazier, Cox, and Wilson. Biographical and autobiographical perspectives provide rich description of socialization, family contexts, work, politics, ideologies, and the impacts of racism and social change. Includes additional evening meetings for film showings and special events. *Three credit hours.* **S, U**

SO215f Classical 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, including Comte, Spencer, Durkheim, Weber, Marx, Pareto, Simmel, and Mead. *Prerequisite:* Sociology 131. *Four credit hours.* MORRIONE

[SO218] Contemporary Sociological Theory Introduces social theories that have had a significant impact on contemporary sociological scholarship. Students learn how to analyze and compare different theoretical paradigms, preparing them to use theory to better understand how social life is both patterned and dynamic. Students explore how these theories, like other cultural products, both reflect and affect the historical moment in which they were produced. Because much of this work engages with Enlightenment thought and institutions, the students develop a critical understanding of some of the central ideas and practices that shaped modern Western society. *Prerequisite:* Sociology 131. *Four credit hours.*

SO219j Self and Society in the Digital Age Students explore how digital technologies change the ways that we work, play, and interact. They use contemporary social theories to identify and assess opportunities and challenges afforded by new communication technologies. Using sociological techniques they investigate how these technologies are reshaping not only how we communicate but the content of the information we share. Finally, they will discuss implications of these changes for themselves as individuals and as citizens of a large democracy. Previously offered as Sociology 197 (2012) and 119 (2013). *Three credit hours.* **S** MAYER

[SO226] Sociology of Martin Luther King Jr. Martin Luther King Jr., a sociology major, represents a social movement (civil rights) that changed America and also changed theories and practices in American sociology. Through an exploration of King's life, work, and writings (books, sermons, and speeches), an overview of the civil rights movement, the origins and practices of the southern system of segregation (Jim Crow), and aspects of the history of American sociology. Particular attention to social movements theory, race relations and social change, and organizations and mobilizations within and by African-American communities. Includes additional evening meetings for film showings and special events. *Three credit hours.* **S, U**

[SO231] Contemporary Social Problems Analysis of selected controversial issues and public problems in the contemporary United States. General theoretical frameworks in the sociology of social problems used to analyze issues from one or more perspectives; areas include alienation, economic and political freedom, the politics of morality, poverty, women's roles, and social inequality. *Four credit hours.* **S, U**

SO237s Sociology of Sexualities Sociological investigation and consideration of the historical and contemporary constructions of human sexualities and the structures, institutions, and symbols that shape them. Theoretical frameworks include constructionist, feminist, post-structuralist, and queer theory. Students examine pressing social issues concerning sexual desire and attraction, sexual behaviors and practices, and the relations of sexuality to other categorizations, including race, social class, gender, and (dis)ability. Students examine non-normative sexual identities and expressions and the structures and symbols shaping their popular and political understandings. Issues are examined within the contexts of both historical developments and contemporary social movements for the full rights of people of every sexuality. *Prerequisite:* Sociology 131. *Four credit hours.* MACKÉ

SO252f Race, Ethnicity, and Society An examination of the roles of race and ethnicity in organizing complex stratified societies, in structuring systems of durable inequalities, and in organizing and shaping communities and enclaves within stratified societies. Using multiple sociological perspectives on race, ethnicity, minority groups, prejudice, discrimination, and institutional racism, special attention is paid to the United States with reference to immigration, slavery, conquest, annexation, colonialism, internal migration, social conflict, social movements, labor, citizenship, transnational adaptation, law, and public policy. *Prerequisite:* Sociology 131 or 231 or American Studies 276 or Anthropology 112. *Four credit hours.* **U** GILKES

SO256s Global Health Uses a sociological perspective to focus on the social, political, and economic conditions underlying health and healthcare across world societies. Research in the field explores questions related to mortality and morbidity, population disease burden, health inequalities, poverty, reproductive health, the diffusion of infectious diseases, nutrition, environmental health, health policies and priorities, war and violence, and prevention, among other issues. Students will explore these topics through response papers, discussion, in-class exercises, and examinations, to achieve an informed understanding of the methodologies and modes of thought used to address key conceptual and practical problems in the field. *Four credit hours.* ARCHIBALD

[SO257] Sociology of Mental Health and Mental Disorders Explores meanings of and factors in mental illness; developments in categories and treatments; impacts of social inequalities on incidence, diagnosis, and treatment; effects on family and support systems; and social policy issues. Considers the contributions of social science, biology, and medicine. Studies sociological conceptualizations of mental disorder, particularly social constructionism, labeling, and stress theories. Draws upon an array of scholarship and applies understandings to select memoirs and autobiographies. Hones close-reading, critical-analysis, and communication skills. Offered in 2009 as Sociology 297. *Prerequisite:* Sociology 131. *Four credit hours.*

SO258f Health and Medicine Applies sociological principles to health, illness, and health care. Situates the latter in a variety of institutional domains linked by social inequality: markets, politics, science, religion, and culture. Topics include medicalization and the social construction of health and illness, racial and ethnic health disparities, women's health, social justice and medicine, epidemiology, ethnography and biostatistics, the phenomenology of health and illness, and contemporary U.S. healthcare reform. Students gain the theoretical knowledge necessary to begin advanced work and a comprehensive understanding of the practical significance of the field. Previously offered as Sociology 297. *Prerequisite:* Sociology 131. *Four credit hours.* ARCHIBALD

[SO259] Activism and Social Movements An examination of the goals, ideologies, leadership, and development of reformist and revolutionary mobilization efforts both within and beyond the boundaries of the United States. *Prerequisite:* A 100-level

sociology course or American Studies 271. *Four credit hours.*

[SO261] Sociology of Organizations Provides an introduction to the central authors and themes in the sociology of organizations. We will use a loose historical framework to examine various research paradigms detailing core topics associated with the study of organizations such as: bureaucracy, power, conflict, rationality, authority, work, technology. Through lectures, papers and exams, and observation of college-community partner organizations, students develop a theoretical and practical understanding of this unique sociological perspective as it applies to organizations as diverse as the Center for Disease Control, Barclays, the Mid-Maine Homeless Shelter, and Al-Qaeda. *Four credit hours.* **S**

SO271s Introduction to Sociological Research Methods Provides sociology majors with basic intellectual tools for understanding, evaluating, and conducting social science research. Specific objectives include: (1) developing rudimentary statistical skills (2) linking theoretical problems to hypothesis testing and statistical inference (3) exploring major types of empirical research and their implications for problem solving (e.g., experiments, surveys, participant observation) (4) applying and refining knowledge of sociological methods through diverse readings in both the sociological literature (e.g., *American Sociological Review, American Journal of Sociology, Social Forces, Sociological Methodology*) and in non-academic publications (e.g., *The Economist, The Atlantic, The New York Times*). *Prerequisite:* Sociology 131 and sociology major. *Four credit hours.* **Q** ARCHIBALD

SO272f Qualitative Research Methods and Methodology The theory, methodology, and methods of qualitative research. Using readings, discussions, and various research activities, students examine the interrelationships of methodological theory and its development, data collection, analysis, and report writing. *Prerequisite:* Sociology 131 and sociology major. *Four credit hours.* **M** MACKÉ

SO273f Sociology of Families Central issues in the social study of the family, predominantly the historical and contemporary American family. Emphasis is on the family as a primary group and a unit of intense interpersonal relationships structured along gender and generational lines and on the family as a major social institution. The changing structures, functions, and dynamics of the family are explored. *Prerequisite:* Sociology 131 preferred, but not required. *Four credit hours.* **S** MACKÉ

SO274f Social Inequality and Power Students will assess different arguments about why life chances are so unequal despite a founding commitment to equality within the United States and other democracies. We will follow Charles Tilly's advice that, in order to understand contemporary inequalities, we must first step back and put these processes into historical perspective. In addition to studying global, macro-level processes driving changes in the national economy, we will also look at how face-to-face interactions and local institutions shape people's abilities to navigate the changing economic landscape and to secure new economic and social opportunities. *Prerequisite:* Sociology 131 and sociology major. *Four credit hours.* **U** MAYER

SO276s Sociology of Gender Gender involves a cluster of human social practices which deploy human bodies' capacities to engender, to give and receive pleasure, and to give birth. Students will explore what is social about gender and how it affects our personal life experiences as well as the operation of large institutions. They will explore why gender relations are historically specific and how they are also shaped by other axes of inequality such as race/ethnicity, social class, and nationality. They will learn how to use sociological tools to design and to assess what is at stake in contemporary projects to shape gender relations. *Prerequisite:* Sociology 131. *Four credit hours.* **S, U** MAYER

SO298s 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 are examined from a variety of perspectives. *Prerequisite:* Sociology 131. *Four credit hours.* **M** MORRIONE

[SO311] Topics in Feminist Theory: Feminist Theories and Methodologies Listed as Women's, Gender, and Sexuality Studies 311. *Four credit hours.* **U**

SO315s Dramas of Power and Politics in America Great risk shift, entrepreneurial society, submerged state—what do these terms mean and what can they tell us about changes in American society at the turn of the century? Why are so few people aware of them, and how can we expect them to impact our lives as citizens, employees, and family members? How were these changes realized, and how do they affect democratic participation? Presents sociological tools to analyze contemporary political contests and the effects of new policies on the lives of ordinary citizens. Students will write both academic papers and blog entries designed for a wider public audience. *Prerequisite:* American Studies 171 or Sociology 131. *Four credit hours.* **M** MAYER

SO322s Social Class and Schooling Listed as Education 322. *Four credit hours.* **U** HOWARD

SO332s Nonprofit Organizations and Philanthropy An academically-grounded, community-based educational experience exploring the meaning of philanthropy and the nature of nonprofit organizations. Students will volunteer in Waterville area nonprofit organizations, working with them as assistant grant writers. The class, operating like the board of a granting foundation, will review organizations' grant applications, make funding decisions, and allocate one or more grants totaling \$10,000. The Learning by Giving Foundation, founded by Doris Buffett, generously provides funding for these grants. *Prerequisite:* Sociology 131 or equivalent introductory course in the social sciences. *Four credit hours.* **M** MORRIONE

SO334f Deviance and Conformity An investigation of classical and contemporary sociological and social psychological perspectives on deviant behavior. Focuses on race, class, and gender as they relate to social definitions of deviant behavior and the consequences of valued and dis-valued identities for self, community, and society. *Prerequisite:* Sociology 131. *Four credit hours.* MORRIONE

[SO355] African-American Women and Social Change Sociological analysis and historical overview of African-American women and their families, work lives, and community (especially religious and political) experience. A focus on the contradictions between lived experience and cultural expectations surrounding gender and on the distinctive experiences of African-American women as a force for social change. *Prerequisite:* An introductory social science course or American Studies 276. *Four credit hours.* U

SO357s Civil Rights, Black Power, and Social Change A seminar examining the impact of the civil rights and black power movements on sociological concepts, theories, and perspectives on race relations, racial stratification, social change, and ethnicity. The PBS series *Eyes on the Prize I and II* are used to introduce readings and discussions of sociological and ideological texts influenced or produced by activists and activities of the civil rights or black power movements. The connections among civil rights and black power movements and other social movements in the United States and other societies. *Prerequisite:* An introductory anthropology, sociology, history, or American studies course. *Four credit hours.* S, U GILKES

[SO358] The Sociology of W.E.B. Du Bois Intensive survey of the life and work of W.E.B. Du Bois, prolific scholar, activist, and founder of one of the oldest sociology departments and research centers. Sociology was Du Bois's chosen discipline at the same time he contributed to history, literature, and cultural studies and formed a foundation for African-American studies. This exploration of his sociological imagination assesses the importance of his work for understanding racial-ethnic relations and conflict in the United States and the world. Readings include *The Souls of Black Folk*, *The Philadelphia Negro*, selected topics from the Atlanta University studies, *The Gift of Black Folk*, appropriate biographical/autobiographical texts, and critical studies. *Prerequisite:* A 100-level sociology course or American Studies 276. *Four credit hours.* S, U

SO361j Special Topics in Health and Medicine: Substance Use and Abuse Using a sociological framework, we examine a number of perspectives in the study of substance use and abuse (e.g., social-psychological, economic, pharmacological, political, historical/ legal). Key topics include the nature of addiction, substance abuse and the brain, drug markets, the treatment industry, prohibition and temperance movements, decriminalization, adolescent drug and alcohol use, and dysfunctional family systems. Students will demonstrate understanding through in-class exercises (individual and group problem solving), participation in general discussion, and weekly response papers. Previously offered as SO397. *Prerequisite:* A lower-level social science course. *Three credit hours.* ARCHIBALD

[SO375] Contemporary Family Relations: Mothers and Daughters An advanced seminar exploring the Western mother-daughter relationship through sociological case studies, ethnographies, and survey research. Draws upon myth, memoir, fiction, and poetry. Systemically considers racial and ethnic variations, looking at social science materials and literature representing the experiences and insights of Euro-American, African-American, Asian-American, Latina, Native American, and recent immigrant women and children. Considers alternative family arrangements such as single-parent mothers and lesbian mothers. Examines issues of development and stresses on families and relationships. *Prerequisite:* A 200-level Anthropology, Psychology, Sociology, or Women's, Gender, and Sexuality Studies course. *Four credit hours.* S, U

SO483f, 484s Honors Project *Prerequisite:* Senior standing, admission to the honors program, and permission of the supervising faculty member. *Two to four credit hours.* FACULTY

SO491f, 492s Independent Study Individual topics in areas where the student has demonstrated the interest and competence necessary for independent work. *Prerequisite:* Junior or senior standing and permission of the department. *Two to four credit hours.* FACULTY

SO493f Senior Seminar: Social Theories and American Sociology Contemporary American society in sociological perspective, utilizing the diverse array of sociological approaches to organizations, social problems, institutions, and social change in the United States. Special emphasis will be placed on exploring the conceptual and empirical linkages between the most recent sociological distinguished scholarship and the classical foundations of American sociological traditions. *Prerequisite:* Senior standing in sociology, and Sociology 131, 215, 218, 271, and 272. *Four credit hours.* GILKES

[SO493A] Seminar: Urban Sociology An exploration of the nature and significance of cities in history. Topics include urbanization, suburbanization, globalization, subcultures, architecture, disasters, transportation, race, poverty, planning, political issues, neighborhoods, inequality, and gender. Focus on American cities. Students will complete three short papers, a book review, and a research paper. *Prerequisite:* Junior or senior standing and Sociology 131. *Four credit hours.*

SPANISH

Chair, Associate Professor Betty Sasaki

Professors Jorge Olivares and Luis Millones; Associate Professor Betty Sasaki; Assistant Professors Dean Allbritton, María Bollo-Panadero, Emma García, and Bretton White; Visiting Assistant Professor Luz Bibiana Fuentes; Faculty Fellow Juan Manuel

The Department of Spanish provides two programs designed to deepen students' understanding of cultural difference and diversity: a language program that fulfills the all-college distribution requirement in foreign language and an academic major program.

In its commitment to the study of foreign languages, the Department of Spanish strives to prepare students for active engagement in the Spanish-speaking world, both within the United States and abroad. Our language courses facilitate oral and written communication by presenting grammar in a cultural context. The language classroom provides a space for students to appreciate cultural connections and differences and to grow into their role as global citizens.

The academic major program offers a course of study in Spanish, Latin American, and U.S. Latino literature and culture. Spanish majors attain depth and breadth of literary and cultural knowledge across historical periods and geographical areas.

The program is committed to promoting greater critical awareness of the differentials of power that perpetuate social injustice and inform cultural and cross-cultural assumptions. Students acquire the skills to become close readers and critical thinkers and to explore different modes of cultural production within specific social, political, and historical contexts. Our pedagogical goal is to prepare students to be productive critics of the world beyond the texts. To that end, students examine the ways in which different texts challenge or affirm aesthetic conventions and dominant social narratives, including race, class, gender, sexuality, nationality, and imperialism. In the process, our majors are encouraged to analyze the connections among systems of domination and to develop as scholars and promoters of social justice.

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 SAT Subject Test in the language or must take the placement test during orientation.

Requirements for the Major in Spanish

Spanish 135 and 231 and at least seven additional literature/culture courses numbered above 135, including at least one course in each of the following areas: Spanish, Latin American, and U.S. Latino literatures/cultures. Majors must take two courses at the 200 level or above on literature written before 1800 and two on literature written after 1800. Senior majors must enroll in 300- or 400-level classes and must take at least one senior seminar. If taken during the senior year, Spanish 231 does not replace a literature course. Independent study work does not replace required courses. Majors are strongly advised to spend one academic year studying abroad at the junior level. A minimum of one semester's study abroad at the junior level is required of majors. Majors must matriculate in a study abroad program that offers university-level courses (not in a language acquisition program); all course work abroad must be conducted in Spanish. A minimum grade point average of 2.70 is required for permission to study abroad. Students who do not meet this minimum requirement will not be able to retain their Spanish major. All study abroad plans for students majoring in Spanish must be approved in advance by the chair of the Department of Spanish. Eligibility prerequisites for Spanish majors to study abroad include the completion of Spanish 135 and Spanish 231 with a grade of C or better.

The following statements also apply:

1. The point scale for retention of the major is based on all Spanish courses numbered above 131.
2. No major requirements may be taken satisfactory/unsatisfactory.
3. Students must receive a grade of C or better for the course to count toward the major.
4. All majors must take and pass with a grade of C or better at least one course in Spanish approved by the major advisor each semester until graduation.
5. No more than the equivalent of two semester courses of foreign study credit may be counted toward the major per semester abroad, or four semester courses per year abroad.
6. No more than the equivalent of four semester courses of foreign study or transfer credit may be counted toward the major.

Honors in Spanish

Students majoring in Spanish with a 3.7 major average or better and an overall GPA of 3.5 or higher at the end of their sixth semester may apply for admission to the honors program by the Friday after fall break of their senior year. Permission is required; guidelines are established by the department. Successful completion of the work of the honors thesis and of the major will enable the student to graduate "With Honors in Spanish."

Course Offerings

SP125f Elementary Spanish I The first semester of three consecutive courses designed to develop fluency and accuracy in the Spanish language. Through an interactive approach to language learning, students gain communicative proficiency through fast-paced, task- and content-based exercises designed to integrate listening, speaking, reading, and writing skills. Videos, audio, and Web materials introduce students to cultural differences within the Spanish speaking world. *Four credit hours.* ALLBRITTON, FUENTES

SP126fs Elementary Spanish II The second of three consecutive courses designed to develop fluency and accuracy in the Spanish language. Through a continued interactive approach to teaching and learning, students begin to develop skills for more independent communicative proficiency. Task- and content-based assignments challenge students to integrate listening,

speaking, reading, and writing skills in a functional use of the language. Videos, audio, and Web materials are incorporated.
Prerequisite: Spanish 125. *Four credit hours.* FACULTY

SP127fs Intermediate Spanish I The third of three consecutive courses designed to develop fluency and accuracy in the Spanish language. Through an intensive grammar review, students develop skills for independent and creative interactive communication. Designed to refine students' major skills in listening, speaking, reading, and writing, as well as to provide insight into the literature and culture of Spanish-speaking countries. Video screenings and short readings in Hispanic literature and culture deepen student understanding of linguistic and cultural nuances and serve as the basis for in-class discussions and writing assignments. *Prerequisite:* Spanish 126. *Four credit hours.* BOLLO-PANADERO, FUENTES, WHITE

SP128fs Intermediate Spanish II Development of critical skills through analysis of fictional texts in Hispanic literature. Continuing work in vocabulary building and grammar review. Students will achieve a high intermediate level in the four basic language skills: reading, writing, speaking, and aural/oral comprehension. *Prerequisite:* Spanish 127. *Four credit hours.* GARCIA, SASAKI

SP131fs Conversation and Composition Development of critical communication skills through conversation, and analysis of nonfiction texts as well as comparative, narrative, and descriptive writings. Introduction to the principles of composing a research paper. Continued work in vocabulary building and grammar review. Students write and present summaries of Spanish-language newspaper articles in small groups. Preparation for oral exams stresses team building as a basis for successful individual presentations. Topics include immigration, euthanasia, gun control, abortion, presidential elections, and the role of the university in preparing students for an ever-changing world. *Prerequisite:* Spanish 128. *Four credit hours.* MILLONES, WHITE

SP135fs Introduction to Hispanic Literature Introduction to literary analysis through Spanish, Spanish-American, and U.S. Latino/a texts. Students are presented with works of fiction in prose, poetry, drama, and film and learn how to examine the texts through close reading, detailed analysis, and strategies of interpretation. Students develop skills in writing critical essays and learn the basics of scholarly research. *Prerequisite:* Spanish 131. *Four credit hours.* L BOLLO-PANADERO, GARCIA, MILLONES

SP198s Contemporary Latin American Performance This one-credit workshop will introduce students to 20th-century Latin American theatre through the study of several plays and an introduction to contemporary performance theory, and will culminate with the theatrical performance of one of the works studied in class. Focuses on the complexities of embodied performance, identity, and voice, and their relationship to gender, memory, sexuality, and the role of theater in periods of repression. Plays will come from writers working in Chile, Cuba, Mexico, Argentina, and Puerto Rico. *Prerequisite:* Spanish 128 or 131. *One credit hour.* WHITE

SP231fs Advanced Spanish An in-depth analysis of Spanish grammar, focusing on the more complex and subtle linguistic and cultural dimensions of a variety of syntactical and lexical concepts. Students will achieve an advanced mastery of Spanish grammar and vocabulary. *Prerequisite:* Spanish 131. *Four credit hours.* OLIVARES

SP265s The Short Novel in Spanish America Close readings of contemporary Spanish-American short novels by representative authors. Explores representations of gender, history, human rights, politics, race, and sexualities within the context of the social and political realities of Spanish America in the 20th and 21st centuries. Also considers critical literary concepts such as narrative perspective, parody, intertextuality, and self-consciousness. Previously offered as Spanish 298A. *Prerequisite:* Spanish 135. *Four credit hours.* L OLIVARES

[SP266] Language of Spanish Cinema An examination of selected works by major Spanish directors of the 20th and 21st centuries. Introduces students to the discipline of film studies and investigates cinematic representations of Spain during the dictatorship and the subsequent transition to democracy. Special attention to questions of identity, violence, and instances of resistance. *Prerequisite:* Spanish 135. *Four credit hours.* A, I

[SP268] Latina/o Cultural Expressions in Literature and Film The study of Latina/o expressions through novels, poetry, drama, murals, photography, and film, focusing on expanding knowledge about Latina/os in the context of American identities. To that end, we will engage with questions about how U.S. Latina/os form part of the popular imagination and how institutional marginalizations of Latina/os impact the creative expressions of Latina/os. Taught in English and Spanish. *Prerequisite:* Spanish 135 or permission of the instructor. *Four credit hours.* L, U

SP269f Spanish Cultural Studies The study of recent Peninsular Spanish expression across a variety of mass media (digital and print media, television, film). Introduces students to the discipline of cultural studies and considers how the concept of *españolidad* (Spanishness) comes to be defined in an ever-changing present and across regions and identities that may not even consider themselves such. Topics may include sex and sexuality, regionalism and linguistic difference, race and immigration, and the state of contemporary politics. *Prerequisite:* Spanish 135. *Four credit hours.* A, I ALLBRITTON

[SP273] Contemporary Spanish-American Short Story Close readings of contemporary Spanish-American short stories. *Prerequisite:* Spanish 135. *Four credit hours.* L

[SP276] U.S. Latina/Chicana Women Writers An examination of a selection of novels, short stories, poetry, theater, and

nonfiction by U.S. Latina and Chicana women writers. Interdisciplinary in approach, focused on the relationship between the texts read and several important contemporary issues. Topics include feminism, the social and cultural construction of race and ethnicity, immigration, cultural nationalism, and identity formation. Readings and class are in English. *Prerequisite:* Spanish 135. *Four credit hours.* L, U

SP338f The Diasporic Imagination: Cubans Beyond Cuba An examination of the cultural production of Cubans living in the diaspora after the 1959 revolution. Representative literary works of Reinaldo Arenas, Richard Blanco, Jennine Capó Crucet, Lourdes Casal, Ana Menéndez, Achy Obejas, Gustavo Pérez Firmat, Sonia Rivera Valdés, Guillermo Rosales, and Zoé Valdés. Also feature films, documentaries, TV shows, and songs. Topics will include the traumas of migration; the politics of exile; the workings of memory and nostalgia; the fantasies of return; the hybridization of culture; and the class, generational, gender, linguistic, political, racial, and sexual diversity of Cubans beyond Cuba. Previously offered as Spanish 397B. *Prerequisite:* A 200-level literature course. *Four credit hours.* L OLIVARES

SP351f Ideology and Ethics in Spanish Golden Age Literature An examination of specific literary works as responses to Spain's changing political climate during the 16th and 17th centuries. How the literary work reinforces or questions, creates or undermines, an official discourse that, in both Reformation and Counter-Reformation Spain, seeks to define national identity in ethical and ideological terms. *Prerequisite:* A 200-level literature course. *Four credit hours.* L SASAKI

[SP352] Don Quijote Students learn how to read *Quijote* and to anticipate frequently repeated themes dressed up as different characters in new adventures. Students practice oral skills and keep reading journals, basing their observations on their own personal and academic experiences. They read literary criticism about *Quijote*, compare it to other novels from world literature, read a short work by Cervantes, and compare *Quijote* to modern films. Ultimately each student, writing as Cervantes, submits his/her original "aventura." *Prerequisite:* A 200-level literature course. *Four credit hours.* L

[SP354] Detectives and Spies: Popular Culture in Spanish-American Fiction A consideration of how the classic detective story has permeated the realm of high or respectable art, and, in particular, how writers such as Bioy Casares, Borges, García Márquez, Leñero, Padura Fuentes, Puig, Sábato, Valenzuela, and Vargas Llosa have simultaneously appropriated and subverted the genre. While focused on the function of parody and intertextual relations, and on the distinction between the mimetic and the reflexive modes, the course will provide a framework to address questions of ideology, community, gender, sex, and sexuality. Previously offered as Spanish 398. *Prerequisite:* A 200-level literature course in Spanish. *Four credit hours.* L

SP371s The Colonial Experience: European and Amerindian Responses Close readings of representative primary documents and iconography from throughout the Spanish and Portuguese empires that were produced to report, understand, legislate, and record various dimensions of the encounter between Europe and the New World during the 16th and 17th centuries. Emphasizes efforts by Europeans and Amerindians to control the memory of events and to position themselves in colonial societies. Students will explore texts and cultural productions used to exert dominance or resistance during a specific historical context, become critical readers of primary documents, and engage with key issues of colonial literature. *Prerequisite:* A 200-level literature course. *Four credit hours.* L MILLONES

SP398s Gender, Sex, and the Spanish Body Focus on contemporary film and media in Spain to explore how sex and gender are covered up, censored, and potentially recovered. Often considered to be a by-product of a particular dictatorial regime, the censorship of sex and gender is actually policed and enforced constantly. Such persistent censoring is all-encompassing, affecting not only the images we see and are allowed to see, but the ways we envision ourselves. Students will examine how these representations in Spain parallel a global system of censorship and sex, asking how such similarities come to be and how (and if) they may be overthrown. *Prerequisite:* A 200-level literature course. *Four credit hours.* ALLBRITTON

SP483f, 484s Senior Honors Thesis The senior honors thesis will be undertaken in addition to all required courses for the major; it does not replace any part of the major. The thesis, which will be written in Spanish, is to be a substantial study of a carefully defined literary topic supported by critical sources. *Prerequisite:* A 3.7 or higher major average and an overall GPA of 3.5 or higher at the end of the junior year and permission of the department. *Three credit hours.* FACULTY

SP483Jj Senior Honors Thesis *Noncredit.* ALLBRITTON

SP491f, 492s Independent Study Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. Cannot substitute for formal course work toward the major. *Prerequisite:* Permission of the department chair. *Two to four credit hours.* FACULTY

SP493s Seminar: The Latina Body Theories, narratives, and images of Latinidad will be explored. We will analyze how the multiple representations of Latinas in contemporary popular culture and literary texts influence definitions of race, identity, femininity, gender roles, beauty, and cultural authenticity in a dialogue among art, popular culture, and novels. *Prerequisite:* Senior standing and a 300-level Spanish literature course. *Four credit hours.* L, U GARCIA

THEATER AND DANCE

Chair, Professor Lynne Conner

The Theater and Dance Department offers students a multidisciplinary approach to understanding the history, literature, and production of performance. Our mission is to impart liberal arts values by fostering creative expression, stimulating critical and imaginative thinking, and increasing cultural literacy through study in a spectrum of studio, laboratory, and discussion-centered courses. The program of study is made up of frequent opportunities for practical experience in theater and dance, including creative research and production opportunities and service learning projects. Undergraduate students in theater and dance also enjoy opportunities to increase their abilities in self-reflection, multicultural sensitivity, and the comparison of social values and ethical systems; in short, they learn how to be productive citizens and professional leaders through their scholarly and applied experiences. The department also seeks to entertain and to educate the larger community through its rigorous production schedule of plays, dance concerts, touring artists, and residency workshops with guest artists.

Consistent with the College's mission, the major in theater and dance is a liberal arts, not a pre-professional, major. It is, however, a major that will prepare particularly interested and talented students for graduate study and further involvement in the performing arts. It is both a structured and sequential major, ensuring that all students have broad exposure and training in acting, directing, movement, design, technical production, performance history, and theory in addition to the opportunity to focus on a specialized track during the junior and senior years.

Requirements for the Major in Theater and Dance

A nine-course* (36-credit) major with the addition of three faculty-led production experiences, one each in the areas of performance and stage management, and an additional experience determined in consultation with the major advisor.

*All courses below are four credits unless otherwise noted. **Fulfills core or focus curriculum but not both.

Core Curriculum (20 credits, with four credits in each of the following five areas):

- (1) Dancing or Acting: 115, 116, 117, 119 (all two credits); or 171**
- (2) Design or Stagecraft: 135, 139
- (3) Directing or Choreography: 258**, 281**, 285**
- (4) Performance History I: 224
- (5) Performance History II: 226

Focus Curriculum (eight credits in one of the following areas):

- Acting/Directing: 171**, 261, 271, 281**, 361
- Dancing/Choreography: 258**, 259, 262, 285**, 355, 361
- Design/Stagecraft: 235, 239, 265, 339, 365
- Scripting: 141, 241
- History/Literature/Theory: 248, 368, English 271

Self-designed (must be chosen in consultation with the student's theater and dance advisor)

Elective (four credits)

- Must be chosen in consultation with the major's Theater and Dance advisor
- Preferably at the 200 or 300 level
- Can be taken in another department with prior approval

Senior Capstone (four credits)

TD 493, must be taken in the spring semester of the senior year

Requirements for the Major in Theater and Dance—Interdisciplinary Computation

The theater and dance-interdisciplinary computation major focuses on the growing relationship between computation and performance scenography and the multiple applications of software technologies to stage design. It offers a sequenced, stage design-based curriculum while also providing students with exposure to the theory and practice of dance, acting, choreography, and directing. Students should begin by taking Theater and Dance 113 or 114, and Computer Science 151 in their first year; then Theater and Dance 135 and Computer Science 231 (fall) and 251 (spring) in their second year. The remaining requirements may be taken in any other semester in consultation with the major advisors in theater and dance and computer science.

Required Courses in Theater and Dance

Theater and Dance 113 or 114; 135; 171 or two courses chosen from 115, 116, 117, and 119; 281 or 285; 235 or 365

Required Courses in Computer Science

Computer Science 151, 231, 251, 351, and 369 or 451

Senior Capstone (four credits)

Designed in consultation with major advisors in both departments

Requirements for the Minor in Theater and Dance

A six-course* (24-credit) minor with the addition of two faculty-led production experiences in the areas of performance, stage management, or design/technical production.

*All courses below are four credits unless otherwise noted. **Fulfills core or focus curriculum but not both.

Core (16 credits, with four credits in each of the following four areas):

- Dancing or Acting: 115, 116, 117, 118, 119 (all two credits); or 171**
- Design or Stagecraft: 135, 139
- Directing or Choreography: 258**, 281**, 285**
- Performance History: 224, 226

Focus (four credits)

- Acting/Directing: 171**, 261, 271, 281, 361
- Dancing/Choreography: 258**, 259**, 262, 285**, 355, 361
- Design/Stagecraft: 235, 239, 265, 339, 365
- Scripting: 141, 241
- History/Literature/Theory: 228, 248, 268, 368, English 271

Elective (four credits)

- Must be chosen in consultation with the minor advisor
- Preferably at the 200 or 300 level
- Can be taken in another department with prior approval

Honors in Theater and Dance

Theater and Dance majors with a minimum cumulative grade point average in the major of 3.5 and an overall GPA of 3.25 at the end of the January term of the junior year and with unanimous approval of the department faculty are eligible to apply for the honors thesis. These projects signify a serious engagement with independent scholarship, and interested students should plan to devote a large segment of their academic time to the project during their senior year. Interested students should contact a faculty sponsor during the spring semester of the junior year to discuss a project and secure that faculty member's sponsorship. Students must then petition the department for permission to undertake honors work no later than April 11. With unanimous approval from the department, students can register for Theater and Dance 483. Students wishing to change their honors project must petition the department for approval. Honors research projects will be a total of six to eight credits and will be conducted during the student's last two semesters (one of which may be Jan Plan). Successful completion of the honors thesis will include an approved thesis and an oral presentation at the Colby Undergraduate Research Symposium as well as the completion of the required course work for the major. The students fulfilling these requirements and receiving at least an A- for the honors thesis will graduate "With Honors in Theater and Dance." In cases where requirements have not been fulfilled at the end of either semester, Theater and Dance 483 and 484 (Honors Thesis) will revert to graded Theater and Dance 491 and 492 (Independent Study). For specifics on the procedures and expectations for Honors in Theater and Dance (depending on the proposed area of study, i.e. dramatic literature, acting, dance, design, history, technical direction, or sound), please consult faculty in the Department of Theater and Dance.

The point scale for retention of the major applies to all courses offered toward the major. No requirement for the major or minor may be taken satisfactory/unsatisfactory.

Course Offerings

TD013j Introduction to the Alexander Technique The Alexander Technique is an educational method that focuses on teaching individuals efficient, coordinated use of their bodies in everyday activities. Whether standing, sitting, bending, or lifting, students learn to accomplish activities from a place of balance and support. Enhances performance in music, dance, theater, and sports as it minimizes effort, tension, and fatigue. Simple principles realign the body for maximum health and function, thereby reducing stress and injury and improving mental acuity and physical appearance. *Noncredit.* SIEGLER

TD064Af Applied Performance/Production: First-year Dance Event Students may register without credit for working on Theater and Dance Department faculty-directed productions (as actors, dramaturges, stage managers, and theater technicians). May be taken up to eight times. *Prerequisite:* Audition: September 15 (1 to 5 pm) and September 16 (7 to 10 pm). Sign up for an audition slot on the callboard outside Runnals 104A. *Noncredit.* HAMP

TD064Bf Applied Performance/Production: Runnals XXX Students may register without credit for working on Theater and Dance Department faculty-directed productions (as actors, dramaturges, stage managers, and theater technicians). May be taken up to eight times. *Prerequisite:* Audition. *Noncredit.* CONNER

TD064Cj Applied Performance/Production: Bloody Bloody Andrew Jackson Students may register without credit for working on Theater and Dance Department faculty-directed productions (as actors, dramaturges, stage managers, and theater technicians). May be taken up to eight times. *Prerequisite:* Audition. *Noncredit.* COULTER

TD064Ds Applied Performance/Production: Spring Dance Concert Students may register without credit for working on Theater and Dance Department faculty-directed productions (as actors, dramaturges, stage managers, and theater technicians). May be taken up to eight times. *Prerequisite:* Audition required. *Noncredit.* HAMP

[TD111] Articulating the Physical Addresses writing as process of discovery, expression of creative and critical thought, and embodied pursuit. Opinion, authorship, and identity are interwoven and grounded in the body. Through movement, experiential anatomy, and choreographic thought, explore the language of/from the body and understand the textual nature of written words, body, self, society, landscape, visual frame, and dance performance. Look at how choreographic thought informs writing. Translations between the visual and the visceral develop active, individual, confident, and vivid writing voices. No prior dance experience required. *Four credit hours.* **A,W1**

[TD113] The Dramatic Experience Survey of history, literature, and visual recordings of dramatic performance traditions. Offers students opportunities to see live performances and facilitates introductory-level participation exercises and projects designed to provide a basis of understanding for students coming from various fields of study. Students will display a basic understanding of fundamental theater and dance terminology; will discuss and write confidently about their experiences as an audience member, demonstrating the ability to debate varied and possibly opposing positions on the aesthetic and sociopolitical context of performance material in question; and will collaborate and problem solve in the creation of an original piece of theater performance or design. *Four credit hours.* **A**

TD114f The Dance Experience A broad introduction to the field of contemporary dance including opportunities to experiment with studio practices (dance techniques and creative choreographic exercises) and to study and analyze the form's history and theory. No prior dance training necessary. Students with dance training are invited to enroll, understanding that technique will be taught at an introductory level but incorporating valuable exercises in contextualizing and discussing dance. At the end students will be able to demonstrate the fundamentals of contemporary dance movement, communicate (in verbal and written form) aesthetic ideas, and meaningfully engage in the creative research process. *Four credit hours.* **A** HAMP

TD115Af Theater Technique Lab: Confident and Connected Voice Students will learn a comprehensive vocal warm-up that includes techniques for identifying and releasing tension, expanding breath awareness and capacity, exploring resonance, supporting appropriate volume, and developing strong articulation skills. In-class exercises, discussions, and weekly journal responses will help students begin to observe their own vocal habits and analyze both theories about and practical approaches to owning the voice as an instrument of powerful creative expression. By the end, students will lead peers in effective vocal warm-up, share orally and in writing observations about vocal habits and perceived changes, and present a memorized text with clear speech and strong vocal connection. *Two credit hours.* WEINBLATT

TD115Bs Theater Technique Lab: Acting Shakespeare's Supernatural Exploring Shakespeare's complex language and imagery through the voice and body can unlock a deep connection to the ideas and emotions of his stage classics. We will focus on supernatural characters from *Macbeth*, *A Midsummer Night's Dream* and *The Tempest*. Students will first learn voice/speech techniques and physical exercises to release tension, connect with breath, and develop clear diction. As we delve into acting choices, we will examine poetic structure, word choice, and punctuation that reveal clues about how to bring magical creatures to life. Students will learn to read the text for meaning derived through scansion and other structural analysis techniques, speak selections with fluency and confidence, and interpret and present a monologue and/or scene with a clear voice and connected body. *Two credit hours.* WEINBLATT

TD116Af Ballet Forms Technique Lab: Beginning Beginning-level ballet, focused on developing the functional anatomy of the moving body through classical ballet vocabulary. Students are introduced to the basic vocabulary of the form and encouraged to experiment with groundedness and lightness, balance and stasis, support and tension, force and energy. Students will demonstrate increased flexibility, strength, coordination, and body connectivity. *Two credit hours.* KUNST

TD116Bs Ballet Forms Technique Lab: Intermediate An exploration of the principles of ballet including, but not limited to, technique, vocabulary, and history. Students will make the vital connection between theory and practice by demonstrating their knowledge of technique within the classroom and will recognize the benefits of risk-taking through theory, performance, and evaluation. They will understand the cultural history of ballet through independent practice and research, as well as synergetic discussion. *Two credit hours.* KUNST

TD117Af Contemporary Dance Technique Lab: Beginning Level An introductory contemporary/modern studio course for students at the beginner or advanced-beginner level. It will address movement fundamentals from a variety of influences and their application in executing increasingly complex movement sequences. Students will develop deeper awareness, skill, confidence, and individuality in movement—a solid base for continued study in dance or one that can inform other creative pursuits from a more embodied point of view. *Two credit hours.* HAMP

TD117Bfs Contemporary Dance Technique Lab: Intermediate Level In this studio practicum, students with prior dance experience at the intermediate or advanced level will develop greater facility with contemporary/modern dance practices. Students will increase efficiency of movement articulation at the joints, will increase ability to perform complex movement in a dynamic range of qualities, will make nuanced and subtle choices in performance, and will understand how to approach complex movement sequences as embodied investigations. Students will demonstrate increased flexibility, strength, coordination, and body connectivity. *Two credit hours.* HAMP, LYONS

[TD119] Popular Dance Forms Technique Lab An exploration of choreography and techniques from masters of musical theater, including Hanya Holms, Agnes De Mille, Bob Fosse, Gower Champion, Michael Bennett, Michael Kidd, Twyla Tharp, and Jerome Robbins. Introduces students to the basic principles of musical theater dance movement: body alignment, coordination, strength and flexibility, and forms of locomotion. Students will increase their technical understanding of musical theater dance, build body strength and coordination, develop aesthetic understanding and taste, and learn how to cultivate a personal movement aesthetic within the genre. *Two credit hours.*

TD131j Theater Production An introduction to basic theatrical engineering, computer-aided drafting (CAD), and technical planning. Students help build a show from the ground up and will apply this knowledge while collaboratively inventing and drawing technical solutions to theoretical scenery. No previous experience is necessary, but students who have taken Stagecraft will find this an excellent companion course. *Three credit hours.* **A** ERVIN

TD135s Introduction to Design An introduction to the principles of visual design and their role in the dramatic event. Particular emphasis on bringing the imagined world of the playwright to life through the use of space, light, and clothing. Historical and contemporary texts are explored through lectures, critical research, discussions, and projects. Students will learn to use their unique creative potential to research and define a design concept, express this concept orally and in writing, and present the concept visually using sketching, rendering, computer visualization, and scenic modeling. *Four credit hours.* **A** THURSTON

TD139fs Stagecraft I Introduces students to scenic construction, theatrical rigging, lighting production, and prop-making concepts, techniques, equipment, and materials, emphasizing problem solving through research, experimentation, and collaborative learning while considering the environment, economic choices, and safety. Students will learn to appreciate the performative aspects of stagecraft by participating in a behind-the-scenes role during the construction period, technical rehearsals, and performances of a faculty-directed, department production. Independent out-of-class work is essential. Previous experience is not necessary. *Four credit hours.* **A** ERVIN

[TD140] Solo Performance Workshop Students will develop original solo performance pieces based on folktales from their own cultural/religious/ethnic backgrounds, writing new material to illuminate the connections between ancient folk wisdom and personal experience. Once working scripts are complete, the focus will shift to acting and storytelling techniques, culminating in a public performance. Students will gain a deeper understanding of their folk heritage, will learn basic elements of script writing and adapting source material for performance, will use their voices and bodies to bring text to life, will engage in a full creative process, and will develop the confidence to connect with an audience. *Three credit hours.*

TD141f Beginning Playwriting An introduction to the playwriting process for students interested in dramatic storytelling and the process of new play development. Student work focuses on 1) close reading and analysis of representative plays in order to understand dramatic structure, characterization, rhythm, imagery, etc.; 2) creative experimentation through a series of writing exercises; and 3) participation in the process of workshopping class products, including offering and receiving constructive criticism. *Four credit hours.* **A** CONNER

TD164s Performance Lab Series An applied laboratory course designed for students who have been cast in the annual Performance Lab Series production. Under the mentorship of theater and dance faculty and staff, students work in a team to collaborate in the practice and creation of new work, to apply problem solving and critical thinking skills to embodied investigations, and to engage in creative exploration in the formation of new performance work. Outcomes include understanding creative research as a rigorous, complex undertaking and cultivating a personal performance aesthetic incorporating individual choices and risks, both creatively and in performance. *Prerequisite:* Audition. *One credit hour.* COULTER

TD171s Acting I Explores the use of the body, voice, emotion, and intellect to create a theatrical character. Through close study of Stanislavski's system, students prepare monologues and scenes to articulate possible interpretations of a play script or performance clearly and effectively. In-class performances further an awareness of individual and ensemble physicality in order to communicate emotion, thought, aesthetic intention, and mind-body awareness. Emphasis on analysis and concentration. Final performances stress the benefits and consequences of creative and aesthetic risk. No prior experience necessary. *Four credit hours.* **A** COULTER

TD197Jj Acting Wilde: British Stage Dialect Focusing on Oscar Wilde's comedic masterpiece *The Importance of Being Earnest*, students will explore basic acting techniques and learn the mechanics of the standard British stage dialect. Includes an introduction to the International Phonetic Alphabet and its use as a tool for learning key sound substitutions as well as research assignments about Wilde and the play's social/historical context. Culminates in a staged reading of the entire play for the Colby community in which students will demonstrate strong articulation and enhanced listening skills, effective production of a stage dialect, and clear physical and vocal choices for the performance of classic stage literature. Nongraded. *Three credit hours.* WEINBLATT

TD224f Performance History I Explores world performing traditions from c. 534 B.C.E. to c. 1700 C.E. by examining the ways theater, dance, and other types of live performance arise out of and give expression to their surrounding cultures. Using multiple media (text, video, artifacts), students develop a familiarity with aesthetic and social values within specific eras and across time. Oral and written research projects (individual and group) further analytical and collaborative skills and develop

cogent and expressive writing and speaking. Exposure to different cultures increases awareness of diversity and the capacity for self-reflection. *Four credit hours.* L COULTER

TD226s Performance History II Explores world performing traditions from 1700 to the early 1970s by examining the ways theater, dance, and other types of live performance arise out of and give expression to their surrounding cultures. Using multiple media (text, video, artifacts), students develop a familiarity with aesthetic and social values within specific eras and across time. Oral and written research projects (individual and group) further analytical and collaborative skills and develop cogent and expressive writing and speaking. Exposure to different cultures increases diversity awareness and the capacity for self-reflection. *Four credit hours.* L CONNER

[TD235] Intermediate Design: Scene Painting An introduction to the principles and practices of theatrical scene painting through studio-based projects and work on the *Tartuffe* production. Involves a series of assignments designed to develop basic skills in painting stage scenery. Students learn a variety of techniques employed in scenic art (including faux finishing, cartooning and layout, and trompe l'oeil) along with creative problem-solving strategies; gain an understanding of the role of the scenic charge artist and the relationship to other members of the production team; improve existing drawing skills and increase color theory comprehension. *Four credit hours.* A

TD239fs Stagecraft II Further exploration of scenic construction, theatrical rigging, lighting production, and prop-making concepts, techniques, equipment, and materials, emphasizing problem solving through research, experimentation, and collaborative learning while considering the environment, economic choices, and safety. An expansion of the course of study from Stagecraft I in which students will examine scene painting and computer-assisted woodworking. Independent out-of-class work is essential. *Prerequisite:* Theater and Dance 131 or 139. *Four credit hours.* ERVIN

TD248s The Citizen Artist: Theater and Social Change An introduction to the theory and practice of community-based theater, including close study of practitioners who use theater as a tool for social change in the United States and abroad. Students analyze and discuss the history and theory of community-based theater, develop an understanding about the relationship between art and civic dialogue, learn theater exercises and techniques, and explore creative tools for devising original exercises and performance works. Projects incorporate academic learning, community service, and civic engagement on and off campus; creative exploration of both campus and community issues will be encouraged and supported. *Four credit hours.* A, U CONNER

[TD255] Zen Theater: Acting, Dancing, Singing Japanese Noh Listed as Music 255. *Four credit hours.* A

[TD258] Improvisational Practices in Dance Approaches improvisation as a compositional, formal performance form and, metaphorically, as a means to open to the unknown, prepare to live in unpredictable environments, recognize options as they exist around us, imagine possible futures, and make clear choices. Students cultivate heightened awareness, develop a receptive, responsive bodymind—open, playful, daring, associative, resourceful, and able to craft choices based on instinct and design. Students remain in process and take risks non-judgmentally, with courage putting those skills to the test in formal performances, carefully crafting each work as it emerges. *Four credit hours.* A

[TD261] Topics in Theater Performance/Production: New Works Practicum Students will learn the craft of producing new works (plays, dance projects, and performance pieces) and gain an understanding of the theory and practice of theatrical production. Begins with reading/analyzing case studies of new works before designing and organizing production elements for the "New Works Festival." Students will work as a team to administer the festival and will also have the opportunity to pursue a specialization track (directing, acting, dramaturgy, design, stage management, marketing, stagecraft, or public relations). Out-of-class time will be devoted to rehearsals and other production needs. No performance-related experience necessary. Can be repeated once. Previously offered as Theater and Dance 361. *Four credit hours.*

TD262s Topics in Dance Performance/Production: Collaborative Company Experience Offers students the chance to learn and practice a range of dance production topics. Since content will vary, can be repeated once. In 2013 students will work as an ensemble to create and perform new choreographic projects including, but not limited to, pieces for the "Spring Dance Concert" in April. Students will experience choreography as an unfolding process, creative research, and a collaborative endeavor. At the end, students will be able to demonstrate fundamentals of theatrical production, communicate aesthetic ideas, and collaborate with artistic team colleagues. *Prerequisite:* Permission of instructor. *Four credit hours.* HAMP

TD264Af Applied Performance/Production: First-Year Dance Event Calling all first-year dancers and non-dancers interested in a modern/contemporary dance performance opportunity. A chance for students new to the Colby community (first-years and transfers) to experience the process of creating and performing a new repertory piece to be performed as part of the Colby on Stage event during Family Homecoming and other on-campus venues during the semester. Auditions open to both experienced dancers and those without prior experience; the piece will have room to highlight both. Check the Theater and Dance website for dates and times. Nongraded. *Prerequisite:* Audition. *Two credit hours.* HAMP

TD264Bf Applied Performance/Production: Runnals XXX This immersive theater event features three performance spaces and a wide range of performance material, from plays and physical theater to stand-up comedy and hip hop. Actors, dancers, singers, rappers, and comedians interested in experimenting with performance as a form of creative research are invited to audition. Nongraded. *Prerequisite:* Audition: September 15 (1 to 5 p.m.) or September 16 (7 to 10 p.m). Sign up for an audition

slot on the call board outside Runnals 104A. *Two credit hours.* CONNER

TD264Cj Applied Performance/Production: *Bloody Bloody Andrew Jackson* Using Jan Plan's intensive schedule to delve into the practice of theater making, we will develop, rehearse, and perform Timbers and Friedman's musical *Bloody Bloody Andrew Jackson* which tells the story of America's first political maverick. A.J. kicked British butt, shafted the Indians, and smacked down the Spaniards all in the name of these United States—who cares if he didn't have permission? The musical recreates and reinvents the life of "Old Hickory," from his humble beginnings on the Tennessee frontier to his days as Commander-in-Chief. It also asks the question, is wanting to have a beer with someone reason enough to elect him? Performances will be February 6-8. Nongraded. *Prerequisite:* Auditions on October 7-8 at 6 pm. Contact Todd Coulter (tcoulter@colby.edu) for more information. *Three credit hours.* A COULTER

TD264Ds Applied Performance/Production: Spring Dance Concert Features original work by Faculty Fellow Amanda Hamp and guest choreographers and showcases Colby's student dancers. Students interested in experimenting with dance as a form of creative research can audition in early February. Nongraded. *Prerequisite:* February audition dates and times will be posted on the department Website and callboards. *Two credit hours.* HAMP

TD265f Topics in Design: Architectural Imaging A chance to learn and practice a range of theater production topics. Content will change each semester and the course can be taken up to two times. In Fall 2013, an intensive overview of the integrated use of computer-aided design (CAD). Centering on an architectural concept developed through research and contextual study, students utilize CAD to investigate and test design assumptions and to fully conceive multidimensional architectural expression. Students use their own creative potential to develop virtual architectural models, allowing imagination, critical thinking, and an understanding of traditional and contemporary presentation techniques to define final design expression. In this project-based studio course it is essential students have access to a laptop for the semester. *Four credit hours.* A THURSTON

TD271f Acting II An investigation of the use of the body and movement in the creation of dramatic characters. Through solo and group work students will develop an awareness of individual and ensemble physicality in order to communicate emotion, thought, and aesthetic intention. They will begin to explore acting styles needed for plays outside of the Modern tradition. Through in-class and public performances students will develop an understanding of the benefits and consequences of creative and aesthetic risk. At the conclusion, students will display an understanding of aesthetic knowledge and sensibility by participating in and observing each other's work. *Prerequisite:* Theater and Dance 171 or two different sections of 115. *Four credit hours.* COULTER

TD281s Directing Emphasizes the collaborative nature of theater. Allows students to explore a wide variety of performance styles. Practical matters such as casting, the design process, and working with actors will be discussed along with historical and contemporary roles of the director. Students will cast and direct scenes in class and present a final directing concept for a longer, more substantial piece of work. Equal parts studio and lecture, requires stringent attendance and preparatory/rehearsal time outside of class. Students will be able to demonstrate fundamentals of composition and blocking, communicate aesthetic ideas, and collaborate with artistic team colleagues. *Four credit hours.* COULTER

TD285f Choreographic Process This introduction to dance-making examines the creative process focusing on physical language, dynamics, and spatial arrangements as possibilities for constructing meaning. We look at movement vocabulary as something that is invented, created personally, crafted carefully in time, space, dynamic arrangement, and relationship to other bodies, always holding the potential for surprise from inside and out. We explore movement ideas, construct and deconstruct movement phrases, discuss readings, choreography, processes, class studies, and roadblocks. Students will begin to discover individual, choreographic points of view and will learn about a diverse set of contemporary choreographers and their work. *Four credit hours.* A HAMP

[TD339] Stagecraft III Further exploration of scenic construction, lighting production, and prop-making concepts, techniques, equipment, and materials. In addition to expanding their studies from Stagecraft II, students will examine welding and three-dimensional computer-assisted wood carving. Out-of-class work is essential. *Prerequisite:* Theater and Dance 239. *Four credit hours.*

[TD355] Applied Choreography Students with previous experience in contemporary choreography at the college level will create original works for formal performance through a rigorous creative process that includes feedback from faculty and peers, presentation of design concepts, and collaboration with student lighting designers. Course will address contemporary issues in dance including viewings of work by active, acclaimed, and emerging professional choreographers. *Prerequisite:* Theater and Dance 285, or 258 with permission of instructor. *Four credit hours.*

[TD361] Advanced Topics in Performance: *Commedia dell'Arte* as Actor Training Explores *commedia dell'arte* from both a theoretical and practical perspective by combining *commedia* acting techniques and exercises with an academic study of the social history of the form. Using mask work and improvisation as a basis for creating original characters, students develop expressive physical and vocal instruments, as well as hone their imagination and concentration skills towards taking creative risks in their acting. Students will also intellectually engage *commedia* as an important part of theater history by examining its contemporaneous cultural context and tracing its legacy. A performance piece for the Colby community will be the culminating activity. *Prerequisite:* Theater and Dance 171. *Four credit hours.*

[TD365] Advanced Topics in Design Advanced studies in design and technical production. Emphasis is placed on the theoretical and historical role of design in theater and dance as it informs contemporary scenography. Topics vary from semester to semester and may focus on the historical context of design, design theory, production design, digital design, technical theater, or theater architecture. Previously listed as Theater and Dance 335. Prerequisite: permission of the instructor. *Four credit hours.*

[TD368] Out on Stage: Advanced Topics in Performance History and Literature Explores the history of gay and lesbian identity on the U.S. stage (theater/dance) from 1900 to 2012. How homosexuality has been portrayed in performance and how performance can contribute to personal constructions of identity. Through engagement with texts, the archive, and theory, students explore and articulate, in writing and in oral presentations, the sociopolitical context of a specific topic, increasing their capacity for self-reflection and their ability to compare social values and ethical systems. *Four credit hours.*

TD483f, 484s Honors Thesis in Theater and Dance Majors may apply for admission in spring of their junior year. Requires research conducted under the guidance of a faculty member and focused on an approved topic leading to the writing of a thesis, an oral public presentation or performance, and a presentation in the Colby Undergraduate Research Symposium. *Prerequisite:* Senior standing, a 3.25 grade point average, a 3.50 major average at the end of January of the junior year, and unanimous approval of the department. *Three or four credit hours.* FACULTY

TD491f, 492s 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

TD493s Senior Seminar This capstone experience offers students the chance to engage in seminar-level discussions on the history and aesthetics of performance and to further develop individual areas of expertise in performance praxis. *Prerequisite:* Senior standing as a theater and dance major. *Four credit hours.* THURSTON

WOMEN'S, GENDER, AND SEXUALITY STUDIES

Director, Associate Professor Lisa Arellano

Appointments in Women's, Gender, and Sexuality Studies: Associate Professor Lisa Arellano; Assistant Professor Sonja Thomas
Program Faculty for Women's, Gender, and Sexuality Studies: Professors Teresa Arendell (Sociology), Debra Barbezat (Economics), Kimberly Besio (East Asian Studies), Jennifer Finney Boylan (English), Lyn Mikel Brown (Education), Cedric Gael Bryant (English), Debra Campbell (Religious Studies), James Fleming (Science, Technology, and Society), Cheryl Townsend Gilkes (Sociology and African-American Studies), Jill Gordon (Philosophy), Paul Josephson (History), Elizabeth Leonard (History), Phyllis Mannocchi (English), Mary Beth Mills (Anthropology), Jorge Olivares (Spanish), Laurie Osborne (English), Adrianna Paliyenko (French), Tamae Prindle (East Asian Studies), Nikky Singh (Religious Studies), Mark Tappan (Education), and Larissa Taylor (History); Associate Professors Lisa Arellano (American Studies and Women's, Gender, and Sexuality Studies), Ben Fallaw (Latin American Studies), Tilar Mazzeo (English), Margaret McFadden (American Studies), Tarja Raag (Psychology), Anindyo Roy (English), Elizabeth Sagaser (English), Laura Saltz (American Studies), Betty Sasaki (Spanish), Katherine Stubbs (English), Andrea Tilden (Biology) and John Turner (History); Assistant Professors Dean Allbritton (Spanish), Emma García (Spanish), Emily Kugler (English), and Sonja Thomas (Women's, Gender, and Sexuality Studies); Faculty Member without Rank Marilyn Pukkila (Library)

The Women's, Gender, and Sexuality Studies Program is a feminist interdisciplinary program designed to acquaint students with scholarship on women, gender, sexuality, and feminist theory. The program mission is to teach students about the ways gender is culturally constructed and intersects with other systems of social difference such as race, ethnicity, class, sexual orientation, and ability.

A WGSS major graduates with a strong grounding in a variety of feminist research methodologies. Core courses train students in interdisciplinary methods and rigorous theoretical reading and writing. Students draw on courses in other programs and departments for training in empirical methods and for topical breadth. A WGSS major graduates having completed a program that is tailored to the student's developing interests. Our program's graduates are trained to think independently, courageously, and boldly about their own subjectivities and the world around them.

Requirements for the Major in Women's, Gender, and Sexuality Studies

Twelve courses, including an introductory course (typically WGSS 201); a course in feminist theory (typically WGSS 311); a senior seminar (typically WGSS 493); and nine additional courses designated as WGSS courses or courses cross-listed under WGSS, at least two of which must be at the 300 or 400 level. Students may also petition the program director to have a non-listed course counted toward the major by demonstrating that the majority of their own course work is on WGSS topics.

Students may count toward fulfillment of the major requirements a maximum of one semester of independent study (WGSS 491 or 492) or four credits of Senior Scholars work (if approved by the WGSS coordinating committee).

The point scale for retention of the major applies to all courses taken toward fulfillment of the major. Courses counted toward the major may not be taken satisfactory/unsatisfactory.

Honors in Women's, Gender, and Sexuality Studies

Students majoring in WGSS may apply to participate in the honors program their senior year by submitting a formal statement of their intention to the WGSS coordinating committee by April 15 of their junior year. The written proposal must include a description of the proposed work, a timeline, and the agreement of a faculty sponsor and a secondary faculty reader. A 3.50 major average at the end of the junior year is a condition for entry into the program. By the beginning of the senior year, students must develop and circulate to the WGSS coordinating committee a prospectus for the project, written in consultation with the project's faculty advisor. A 3.50 major average at the end of the senior year and a public oral presentation of the project are conditions for successful completion of this program. Honors course credits do not count toward elective credits in the major. The final project will usually consist of 50 pages or more of superior quality.

Requirements for the Minor in Women's, Gender, and Sexuality Studies

Six courses, including an introductory course (typically WGSS 201); a course in feminist theory (typically WGSS 311); and a senior seminar (typically WGSS 493); and three additional courses designated as WGSS courses or cross-listed under WGSS, at least two of which must be at the 300 or 400 level. No more than one semester of independent study (WGSS 491 or 492) may be counted toward fulfillment of the minor requirements.

The point scale for retention of the minor applies to all courses taken toward fulfillment of the minor. Courses counted toward the minor may not be taken satisfactory/unsatisfactory.

Courses From Other Departments That May Be Applied to Women's, Gender, and Sexuality Studies Major or Minor

(Note: As course offerings change yearly, this list may not be comprehensive.)

American Studies

- 215 The Image of Women and Men in American Film
- 275 Gender and Popular Culture
- 334 Film and Society: Films of the 1940s

Anthropology

- 373 The Anthropology of Gender and Sexuality

Economics

- 254 The Economics of Women, Men, and Work

Education

- 231 Teaching for Social Justice
- 332 Practicum in Girls' Development and Education

English

- 336 Early American Women Writers
- 348 Postcolonial Literature
- 412 Shakespeare (when appropriate)
- 413 Author Course (when appropriate)
- 429 Passionate Expression: Love, Sex, and Sexuality in Western Literature
- 493 Seminar (when appropriate)

French

- 358 Passionate Discontent: The 19th-Century Epidemic

History

- 231 American Women's History, to 1870
- 232 American Women's History, 1870 to the Present
- 245 Science, Race, and Gender
- 381 Women and Gender in Islam
- 413 Seminar: Joan of Arc: History, Legend, and Film

Music

- 172 Music and Gender

Philosophy

- 215 Feminist Philosophies
- 217 Feminism and Science

Psychology

- 352 Sex and Gender Seminar

Religious Studies

- 275 Contemporary Wicca: Formalists, Feminists, and Free Spirits
- 312 South Asian Women at the Crossroads: Tradition and Modernity

Sociology

- 276 Sociology of Gender
- 355 African-American Women and Social Change
- 375 Contemporary Family Relations: Mothers and Daughters

Spanish

- 276 U.S. Latina/Chicana Women Writers
- 493B Seminar: The Latina Body

Theater and Dance

- 349 Topics in Dramatic Literature (when appropriate)

Course Offerings

WG201fs Introduction to Women's, Gender, and Sexuality Studies An introduction to the interdisciplinary field of women's, gender, and sexuality studies, using classical and contemporary texts. An examination of the variety of feminist and queer theoretical approaches to understanding gendered and sexual lives in historical contexts. *Four credit hours.* **U** ARELLANO, THOMAS

[WG211] Women in Myth and Fairy Tale How are women represented in the myths and fairy tales of U.S. cultures? What is the impact of these images on our selves and our societies? What are some alternatives to the images we are familiar with? How are women using myths and fairy tales to deconstruct oppressive images based on cultural stereotypes? These questions are explored through close examination of ancient and contemporary versions of the stories of Psyche, Beauty, and Inanna. American Indian stories and feminist fairy tales provide alternative images for discussion, as do various video versions of the stories. Normally offered every other year. *Three credit hours.* **L**

WG217f Boys to Men An exploration of the thoughts, feelings, physical responses, life choices, and aspirations of boys and men throughout the life cycle as they act and interact with girls and women, with each other, and with the larger sociocultural context in which they live. From an explicit social justice perspective, how power, privilege, and difference shape boys' and men's lives, and how the social construction and reproduction of masculinity differ based on sexual orientation, race, ethnicity, social class, and age. Particular attention to the problem of men's violence against women and other men. Students work with boys and young men in schools and after-school programs. *Four credit hours.* **S, U** TAPPAN

WG232f Queer Identities and Politics Discussion-based course considering central writers in queer studies, with an emphasis on historical and theoretical work on sex, gender, and sexuality. Topics include gay, lesbian, bisexual, transgender, intersexual, and queer political movement and theory; sexual identities and feminism; sexual identities and the law; alternative family practices; and queer theory in academia. *Four credit hours.* **U** ARELLANO

WG237s Sociology of Sexualities Listed as Sociology 237. *Four credit hours.* **MACKE**

[WG273] Sociology of Families Listed as Sociology 273. *Four credit hours.* **S**

WG275s Gender and Popular Culture Listed as American Studies 275. *Four credit hours.* **U** LE ZOTTE

WG276s Sociology of Gender Listed as Sociology 276. *Four credit hours.* **S, U** MAYER

WG297j Critical Race Feminisms and Tap Dance An introduction to critical race feminisms and tap dance. We will examine the history of tap dance, black masculinity, the black performing body, minstrelsy in American culture, and current debates in feminist critical race theory and performance theory. Specific attention will be given to the intersections of race, class, gender, and sexuality as manifested through performance and tap dance. We will also learn basic tap dance skills and the classic "Shim Sham Shimmy." Tap shoes are required. *Three credit hours.* **A, U** THOMAS

WG311fs Topics in Feminist Theory: Feminist Theories and Methodologies Takes an interdisciplinary, intersectional, and progressively transnational approach to feminist theory of the past three decades. Equally premised in the convictions that the "personal is political" and "the political is gendered." Fosters critical consciousness of the many and varied ways in which sex, gender, and sexuality shape our daily lives. Taking seriously the challenges posed from within and outside feminism to acknowledge and grapple with the gaps between theory and practice born of the many and varied differences between and among

women, we closely examine not only what Estelle Freedman terms the "historical case for feminism" but also the historical case for feminist theory. *Prerequisite:* Junior standing as a WGSS major or minor. *Four credit hours.* U THOMAS

[WG334] Film and Society: Films of the 1940s Listed as American Studies 334. *Four credit hours.* U

WG335s Girls Making Change: Girlhood, Activism, and Popular Culture Provides students with the opportunity to explore how dominant cultural constructions of girlhood and popular culture impact girls' sense of agency and their chosen forms of activism. We will examine how girls accommodate, negotiate, and/or resist prevailing ideals of "girlhood," and critically examine girl-defined activism, with particular attention to social networking and media production. We will work together to create an on-campus action, participate in a current girl-driven movement via blogging, and apply feminist and developmental theories and approaches to an activist project with local girls. Previously offered as WG397. *Prerequisite:* Education 231 or 235, or Women's, Gender, and Sexuality Studies 201. *Four credit hours.* U BROWN

WG341f Gender and Human Rights Examines gender and human rights through articles in the United Nation's *Universal Declaration of Human Rights*. Focusing each week on a particular article of the declaration, we will examine feminist activism in the context of women's rights as human rights; question how, who, and what are protected by the declaration; and bring the particular into conversation with the universal. Students will understand the concept of universal human rights, analyze human rights abuses from multidisciplinary perspectives, and critically analyze feminist activism for social justice across local and global contexts. Previously offered as Women's, Gender, and Sexuality Studies 397B. *Four credit hours.* S, I THOMAS

[WG375] Contemporary Family Relations: Mothers and Daughters Listed as Sociology 375. *Three credit hours.* S, U

[WG376] Queer Popular Cultures Listed as American Studies 376. *Four credit hours.* U

WG483f, 484s Senior Honors Project An independent research project on an approved topic, conducted in close consultation with a faculty tutor and culminating in a substantial written thesis. Students are responsible for selecting their faculty tutor and submitting their proposal by April 15 of their junior year. A 3.5 major average at the end of the senior year is a condition of successful completion of the program. *Prerequisite:* Senior standing, a 3.5 major average at the end of the junior year, and permission of the Women's, Gender, and Sexuality Studies Program. *Three or four credit hours.* FACULTY

WG491f, 492s Independent Study Individual study of special problems in women's, gender, and sexuality studies in areas where the student has demonstrated the interest and competence necessary for independent work. The instructor must be one of the faculty members in the program. *Prerequisite:* Women's, gender, and sexuality studies major or minor, permission of the instructor, and approval of the Women's, Gender, and Sexuality Studies Program. *Three or four credit hours.* FACULTY

WG493s Seminar: Identity Formation, Social Movement, and Gender An examination of current debates about social and political identity in an effort to understand the terrain of these debates by examining (and in some cases forcing) conversations between and among projects that attempt to offer ways of thinking about the relationship between identity formation and social movements. Students will complete an independent project on a topic of their own choosing. *Prerequisite:* Women's, Gender, and Sexuality Studies major or minor. *Four credit hours.* I ARELLANO

ACADEMIC PROCEDURES

Academic procedures in this section spell out policies related to the student's academic program, from course selection and registration to exams and grades to issuance of transcripts. Topics include:

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, the Registrar's Office should be consulted. Each student must also be aware of deadlines set within each academic year that pertain to academic actions; these are available from the Registrar's Office and on the registrar's website as "Critical Dates."

The College's official means of communication is electronic. Students are expected to activate their Colby e-mail accounts and to check them regularly, as many official notices from the administration and the faculty are sent only as electronic mail. Academic records, including courses a student has taken and the student's status with respect to fulfillment of academic requirements, are available in a password-protected environment through the College website.

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. Full-time standing during a semester requires a minimum of 12 credit hours. A student may carry fewer than 12 credit hours only with the explicit approval of the dean of students. In so doing, a student will be subject to review by the Committee on Academic Standing. Varsity athletes must consult with the director of athletics, the senior associate dean of students for academic affairs, and their academic advisor regarding how the reduced course load may affect athletic eligibility.

Each first-year student has a faculty advisor to assist in planning the academic program. A new faculty advisor is assigned when the student has selected a major. Approval of the faculty advisor(s) is required for all procedures affecting a student's academic program.

Prospective students frequently ask what subjects they will study—especially in the first 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 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 ensure distribution among the divisions, first-year students must include a first-year writing (W1) course, a foreign language (unless exempted by examination), and courses to meet area requirements. Students are urged to complete all distribution requirements by the end of their sophomore year. Students are encouraged to elect subject areas that are new to them and are advised to avoid over-concentration in any department or division.

Students considering a scientific career or the study of medicine should begin electing scientific subjects at once. Many departments in the natural and social sciences recommend mathematics in the first year. The student and assigned advisor should discuss a prospective program, noting carefully the recommendations and requirements in areas of major study. The initial selection of a major is by no means final; students are encouraged to explore alternative options throughout their sophomore year.

Selection of Courses

Each semester students select programs of study for the following semester. Students select courses via the Web after consultation with academic advisors. Selections are confirmed or denied following review of courses against academic departments' criteria for course limits and priorities, after which students may add or drop courses via the Web, subject to rules stated for each course.

Deadlines for voluntary changes—adding, dropping, or withdrawing from a course, changing sections within a course, declaring or revoking the satisfactory/unsatisfactory option, augmenting or decreasing credit in courses offered for variable credit—appear in "Critical Dates" published annually by the registrar and available online.

No student may register for more than 20 credit hours in any semester without special permission from the faculty advisor(s) and the dean of students.

Ordinarily, a student can neither repeat a course for additional credit nor register for two courses scheduled to meet concurrently.

Registration

Other than in exceptional circumstances specified in advance in writing by the dean of students, a student will not be permitted to register later than the eighth class day of a semester.

Prior to registration, each student must complete payment of fees as specified by the treasurer, who is not authorized to defer such payment. New students must also provide the required health certificate prior to the first day of classes (see Health Records in the section titled Student Affairs and Campus Life).

Adding Courses

Students in any class year are permitted to add courses to their schedules, with the permission of the instructor, during the first eight class days (hereafter referred to as the "add period") in either semester.

Satisfactory/Unsatisfactory

Students may elect a limited number of courses (totaling no more than 16 credits) on a satisfactory/unsatisfactory basis; these cannot include distribution requirements. Most departments specify that major courses must be taken on a conventionally graded basis.

Forms for declaring satisfactory/unsatisfactory options can be obtained from the Registrar's Office. The form must be completed and returned by the end of the add period in the term in which the course is taken. A satisfactory/unsatisfactory election may be voluntarily revoked by a deadline established for each term. Letter grades submitted by instructors will be converted to S (for grades A through C-) or U before being posted on permanent records; any grade below C- is unsatisfactory and will be recorded as a U on the grade record. The Registrar's Office cannot release more specific information on the quality of the S, even upon request of the student who earned it.

Dropping Courses

All students enrolled full time at Colby may drop courses via the Web through the mid-semester drop date. The specific drop dates for each year are published in "Critical Dates," available on the Web or from the Registrar's Office.

Students' schedules are available on the Web. It is each student's responsibility to ensure that his or her registrations are accurate and total at least 12 credits, the minimum for full-time status (see Student's Program above). "Dropped" courses will not appear on the student's permanent record or transcript. Students may not drop a course simply by absenting themselves from its meetings. Absence without formally dropping a course subjects the student to a mark of F in the course.

Withdrawal from Courses

Only first-year students may withdraw from courses until the last day of classes and receive the mark of W. Appropriate forms, approved by advisor and instructors, must be filed with the Registrar's Office. If at the time of withdrawal the instructor considers the student to be failing, the mark shall be WF (for a conventionally graded course) or WU (for satisfactory/unsatisfactory option). Neither W nor WF nor WU is used in calculating the student's grade point average but will appear on the transcript.

Attendance, Religious Holidays

Attendance

Students are expected to attend all of their classes and scheduled course events in any semester or January and are responsible for any work missed. Failure to attend can lead to a warning, grading penalties, and/or dismissal from the course with a failing grade.

Religious Holidays

In order that no students at Colby suffer academic penalty because of the conscientious observance of a major religious holiday, it is important that faculty members follow a uniform policy regarding such observance.

It is reasonable to consider major religious holidays for the Colby student body as a whole to be the following: Rosh Hashanah, Yom Kippur, Eid-al-Adha, the first full day of Passover, Good Friday, and Easter. Quizzes or exams will not be scheduled and assigned papers will not be due on any of these holidays. In addition, no student will be required to participate in major College events such as athletic contests, major lectures, or concerts on these holidays.

Students whose conscientious religious observance requires their absence on days other than or in addition to those named above can make use of the following procedure prior to the holiday. If written notification is delivered to the course instructor at least one week before the holiday, the student's absence on the holiday will be regarded as an authorized one, and the student will be excused from quizzes and exams for that day. Under these circumstances the student will be permitted to take the exam or a make-up exam without penalty. A similar option exists with respect to papers: if proper notification is delivered to the course instructor before the holiday, the student will be excused from submitting a paper due on that holiday.

Academic Honesty

Plagiarism, cheating, and other forms of academic dishonesty are serious offenses. For the first offense, the instructor may dismiss the offender from the course with a mark of F (which is a permanent entry on the student's academic record) and will report the case to the department chair and the dean of students, who may impose other or additional penalties including suspension or expulsion. This report becomes part of the student's confidential file and is destroyed six years after graduation or the last date of attendance. A second offense automatically leads to suspension or expulsion. Students may not withdraw passing from a course in which they have been found guilty of academic dishonesty. A student is entitled to appeal charges of academic dishonesty to the Appeals Board. The decision of the board shall be final and binding.

The College also views misrepresentations to faculty within the context of a course as a form of academic dishonesty. Students lying to or otherwise deceiving faculty are subject to dismissal from the course with a mark of F and possible additional disciplinary action.

Student accountability for academic dishonesty extends beyond the end of a semester and even after graduation. If Colby determines following the completion of a course or after the awarding of a Colby degree that academic dishonesty has occurred, the College may change the student's grade in the course, issue a failing grade, and rescind credit for the course and/or revoke the Colby degree.

Without the approval of all the instructors involved, registration for two or more courses scheduled to meet concurrently is a form

of academic dishonesty.

Exams, Marks

Hour Exams and Quizzes

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

Warnings

Throughout the semester, at the discretion of the professor, warnings are issued to students. A major warning signifies that a student's average is below passing. Warnings may also be issued for excessive absence or late or incomplete assignments. Attention is called to the statement on attendance in this section of this catalogue.

Semester Exams

Six days are set aside at the close of each semester for three-hour final exams. 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 chair. 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 (on the appropriate form) of a valid conflict involving three exams on one day, four in consecutive order, or two courses with the same exam number.

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 during the designated make-up period 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.

Marks

A student may obtain marks from instructors, but the only official College record is that maintained in the Registrar's Office. Grades can be viewed on the Web two weeks following the faculty's grade reporting deadline; semester reports are released to parents upon explicit request of the student. Grade reports may be withheld at the direction of the Business Office for students whose financial obligations to the College have not been met.

In 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: For semester courses, CR indicates credit is earned; NC is recorded if credit is not earned. For January courses, CR indicates credit for program; F is recorded if no credit is earned.

Courses offered for January Program credit only (i.e., which fulfill the January Program requirement but carry no credit hours toward graduation) are graded credit or fail.

Incomplete Grades: A mark of I indicates a course not finished for some reason, including failure to take the final examination. An incomplete is not appropriate unless the student has made prior arrangements with the instructor. Work to make up a grade of I must be submitted within limits set by the instructor, but not later than January 15 for first semester, the Tuesday following spring break for January credit courses, or July 1 for the second semester. After these dates any remaining marks of I will be changed to F. The dean of students may give limited extensions for the completion of work without penalty but only for excuses similar to those acceptable for missing a final examination. A student with any mark of I (except in the case of illness or critical emergency) is not eligible for Dean's List.

Changes in Grades: An instructor who wishes to change a semester grade (except I) after the grade reporting deadline must secure approval of such change from the dean of faculty. Any change must be necessitated by discovery of an error in recording or reporting or must result from a bona fide medical problem as verified by the dean of students.

Marks of W, WF, and WU indicate withdrawal from a course and represent the student's standing at the time of withdrawal. W indicates either passing or no basis for judgment. WF indicates failing. WU indicates that the grade would be below C- in a course being taken on a satisfactory/unsatisfactory basis. These marks are excluded from computation of all averages.

F indicates failure or abandonment of a course without formal withdrawal.

Academic Review, Academic Standing, and Exemption by Examination

Academic Review

The opportunity to continue at Colby is a privilege earned by satisfactory academic achievement. The Committee on Academic Standing reviews the academic records of all enrolled students at the end of each semester to verify satisfactory progress toward the degree. The Office of the Dean of Students informs students of changes in their academic standing.

Academic Probation

Students who earn fewer than 12 credits or a grade point average between 1.70 and 1.99 in any semester will be placed on academic probation. A student will be placed on probation in the major if the major average falls below 2.0 or if there is inadequate progress toward completion of the major. 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 and may still result in academic probation.

A student who is on probation must earn 12 credits and a C (2.00) average in the subsequent semester to avoid dismissal. The January term will be considered part of the full year's performance in evaluations made by the committee at the end of the second semester. A student placed on probation in the major must regain or change that major in the subsequent semester (refer to the section Major Requirement in this catalogue).

Any student on academic probation is required to consult with his/her academic advisor, advising dean, and any extracurricular advisor, such as a coach, to discuss whether the student should continue participation in extracurricular activities.

Academic Dismissal

Students who earn less than a 1.70 grade point average in any semester or who do not earn at least 12 credits and a 2.00 grade point average while on probation will be dismissed from the College for one academic year. Students may appeal the decision by submitting a written statement to the Committee on Academic Standing prior to its meetings in mid-January and mid-June (held approximately two weeks after semester grades have been posted). This is the only opportunity to appeal the dismissal.

Students who have been dismissed may, after one year, apply to the committee for reinstatement. Before requesting readmission, the student must earn a B or better in at least two preapproved courses taken at an accredited institution. It is the responsibility of the student to initiate the readmission process by submitting to their advising dean a written request, by December 1 for spring semester and by May 1 for a fall semester return. The committee will take favorable action on readmission applications only when satisfied that the factors that led to failure have been adequately addressed and that the student has ample motivation and capacity to earn the degree. Readmission is a privilege, not a right.

Upon a student's return to the College, his or her records from study elsewhere are subject to review and action by the Committee on Academic Standing. A readmitted student will be on academic probation during the first semester back. A second dismissal is final.

Academic Standing

	Semester GPA		Semester credits
Good Standing	≥ 2.0	and	≥ 12
Academic Probation	1.70-1.99	and/or	<12
Academic Dismissal	<1.70 or <2.0 while on probation		

A student's class standing is determined primarily by the number of full-time semesters completed, but also by credit hours earned.

First-year standing: fewer than two semesters or fewer than 28 credit hours.

Sophomore standing: two or three semesters and 28 to 60 credit hours.

Junior standing: four or five semesters and 61 to 89 credit hours.

Senior standing: six or more semesters and 90 or more credit hours.

Class standing is not automatically changed to a higher level upon the posting of additional credits; students who believe themselves eligible for a change of class year should consult the registrar. Students will be warned if they are not making adequate progress toward the 128 credits needed to graduate.

Exemption by Examination

Distribution requirements as well as certain requirements for the major may be absolved by examination without course enrollment when appropriate and at the discretion of the department concerned. Matriculated students may earn credit by examination in 100- or 200-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. The College will exempt students from the language requirement for attaining before entrance a score of 64 in an SAT-II Subject Test in a foreign language or for attaining a score of 64 in Colby's placement test during first-year orientation; in either case, no academic credit will be granted.

Transfer Credits

Transferred Credits for Newly Admitted Students

Courses taken at other accredited institutions, not including online courses, in which grades of C or higher have been earned, may be credited toward the Colby degree under the conditions and circumstances listed below and those specified in the sections on Residence Requirement and Quantity Requirement in this catalogue. All credits presented for transfer toward a Colby degree must be supported by official transcripts issued by the college or university where the credits were earned. Transferred grades are not used in computing the grade point average.

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 first-year students are evaluated on the same basis as courses presented by new transfer students.
3. Refer to Advanced Standing in the section titled Admission in this catalogue for additional programs in which credit may be earned.

Transferred Credits for Currently Enrolled (Matriculated) Students

Courses taken at other accredited institutions, not including online courses, in which grades of C or higher have been earned, may be credited toward the Colby degree under the conditions and circumstances listed below and those specified in the sections on Residence Requirement and Quantity Requirement in this catalogue. All credits presented for transfer toward a Colby degree must be supported by official transcripts issued by the college or university where the credits were earned. Transferred grades are not used in computing the grade point average.

1. Students seeking to transfer credits for full-time study away from Colby must file application forms by the established deadlines with the Office of Off-Campus Study. Approval must be obtained prior to beginning such study. Deadlines are listed under "Academic Programs" in this catalogue. The Office of Off-Campus Study must be notified immediately of any subsequent change in the approved program.
2. Graded credits earned at an accredited degree-granting institution may be transferred toward a Colby degree by matriculated students, including students dismissed for academic reasons by the Committee on Standing, if approved in writing, prior to enrollment in specific courses at the other institution, by the appropriate College authorities. Forms on which to seek approval can be obtained from the Office of the Registrar. The Registrar's Office must be notified immediately of any subsequent change in the approved program.
3. No student may receive transfer credit for more than 14 credit hours taken for the purpose of making up deficiencies incurred at Colby. Credits earned at summer school will not constitute a semester to apply to those required for the Colby degree.

Repeated Courses, Auditing Courses

Repeated Courses

Students with a need to earn a higher grade may repeat a course previously passed; both the first and subsequent enrollments and grades will be permanent entries on the academic record and transcript, and both grades will be used in computing the grade point average. No additional credit will be granted for the repeated course. Exceptions: Some courses build skills or change content in ways that make them repeatable regardless of grades given. Catalogue descriptions for such courses include the statement "May be repeated for additional credit." More-specific information about repeatable courses may be obtained from the chair of the department concerned.

Auditing Courses

A matriculated Colby student may arrange to audit courses with the consent of the instructor. 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. The decision whether the course is to be audited or taken for credit must be made at entry.

Individuals 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 filed with 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.

Leave of Absence, Transcripts

Withdrawal from College, 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 approval of the dean of students. 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 College's Office of Student Financial Services.

Students taking a leave of absence must notify the College by the date when course preregistrations are due for the following term.

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.

All withdrawals and leaves of absence must be effected officially by filing a form with the dean of students. The proper exit procedure, which includes the surrendering of residence hall and post office keys, must be followed to be eligible for any refunds that may be due (see Refunds in the section titled Student Fees). A student who leaves without official notification is not eligible for refunds, which are calculated from the date the withdrawal is approved by the dean of students.

Transcripts

Transcripts are available from the Registrar's Office upon receipt of a signed request from the student or former student. For current students, a Web-based request form is available. There is no charge for the transcript itself, whether delivered by post or electronically; a fee is assessed for expedited, non-electronic delivery. Transcripts will not be issued for anyone whose financial obligations to the College have not been met.

ADMISSION

Colby admits students as candidates for the degree of bachelor of arts. Admission is highly 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, ethnic, religious, 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, references from 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 years of English, at least three of a single foreign language, three of college preparatory mathematics, two of history or social studies, two of laboratory science, and two years of other college preparatory electives. Most successful candidates for admission present at least 20 academic units.

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

The average rate of return from first year to sophomore year is 95 percent. The average six-year graduation rate is 91 percent.

Application Deadlines

Early Decision I admission and financial aid: **November 15**

***Notification:** by December 15

Midyear transfer admission: **November 1**

***Notification:** by December 15

Early Decision II admission and financial aid: **January 1**

***Notification:** by February 15

Regular Decision admission: **January 1**

***Notification:** by April 1

Regular Decision financial aid: **January 15**

***Notification** by April 1

Fall transfer admission and financial aid: **March 1**

***Notification:** by May 15

Deadline for mailing parents' and students' signed prior-year federal income tax returns, including W-2s: by **April 16**

Candidate reply date for students admitted Regular Decision: **May 1**

Application Forms

Application forms are available at colby.edu/admissions where there is a link to the Common Application. Because we encourage students from all socioeconomic backgrounds to consider Colby, there is no fee to apply for admission.

Tests

Colby requires official results of one of the following three options: the SAT, OR the ACT, OR three SAT Subject Tests in different subject areas of the applicant's choice. Students seeking to fulfill the College's foreign language requirement may do so by earning a 640 or higher on a foreign language Subject Test. All required tests must be taken no later than December of the senior year. Applicants must request that test results be sent to Colby directly from the appropriate testing agency. Information about the tests is available at collegeboard.com/testing and at actstudent.org. The Colby College institutional codes are 3280 for the SAT and Subject Tests and 1638 for the ACT. Candidates planning to submit only ACT results are encouraged to take the ACT with the optional writing test component.

Interviews

Interviews are strongly recommended and are available on campus from early March through mid-December. Interested students may interview beginning in the spring of their junior year through December of their senior year. Campus interviews are offered on weekdays and on most Saturday mornings throughout the fall. Off-campus interviews are offered in cities around the country each fall; specific sites and dates are posted to the website each August.

Interviews with alumni volunteers are available to students who have submitted applications. These interviews are held throughout the country and across the globe. Please visit the website for more information.

First-Semester Abroad Admission

Each year more Colby juniors study off campus during the spring semester than during the fall, and 35 to 40 spaces for incoming students usually become available at the beginning of the January term. A student who applies for admission in the fall semester may be offered admission for midyear. For these students, Colby offers two fall semester abroad options, which are described in the Opportunities to Study Abroad section. A student who participates in one of the College's fall semester abroad programs enters Colby with a group of friends acquired through the program and with enough credits to progress toward the degree at the same pace as his or her classmates. Admission to the fall semester abroad program is based on prior foreign language study, demonstrated independence and maturity, and personal qualities that suggest a smooth transition to campus in the winter.

Early Admission

Occasionally a student is admitted to the College without completing the senior year of secondary school. Students interested in being considered for early admission must interview with a member of the admissions staff to discuss the reasons for this interest. Students will be expected to have exhausted the curriculum available at the secondary school and to have the full support of the school in seeking to leave before graduating.

Advanced Standing

Colby participates in the Advanced Placement program of the College Board. Credits will be recorded on the Colby transcript for official AP scores of 4 or 5, and, where appropriate, advanced course placement will be granted. These credits may also be applied to certain academic areas of the College's distribution requirement (See Academic Requirements section), but AP credits may not be counted toward the 128 credits required for graduation.

Colby also recognizes the International Baccalaureate and offers advanced placement and credit based on individual Higher Level examination results, as well as performance on the full IB Diploma program. At the discretion of individual academic departments, advanced placement may be earned for scores of 6 and 7 on Higher Level examinations. A full year of credit toward the 128 credits required for graduation and up to two full semesters toward residency requirement may be earned for an IB Diploma point total of 36 or better, assuming all examination scores are 5 or better.

Finally, students who receive an A or B (superior level) on A-levels or comparable scores on the Leaving Certificate (Ireland), the Abitur (Germany), or the Baccalaureate (France) may be eligible for credit and advanced placement.

Campus Visits

A visit to Colby is strongly encouraged. Campus tours and group information sessions are available on most weekdays and on Saturday mornings in the fall.

Colby is located near exit 127 of I-95. Waterville also may be reached by bus, by air to nearby Augusta, or by airport taxi from the Portland International Jetport or the Bangor International Airport. A list of hotels is available online at www.colby.edu/visit.

International Students

Colby has enrolled international students since the 1820s and actively engages in programs of international cooperation and exchange.

International applicants must submit an official score report sent by the testing agency from one of the following tests:

- College Board SAT Test *or*
- American College Test (ACT) *or*
- SAT Subject Tests in three different subject areas

For international students whose first language is not English or whose medium of secondary school instruction has not been English, results from the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) are also needed.

Need-based financial aid is available to international students. Applicants for financial aid must complete the International Student Financial Aid Application and the Certification of Finances, which are available online. Documentation (with translation) of parents' incomes also is required.

An associate dean of students serves as the advisor to international students on immigration and other matters. An intensive English bridge program during the fall semester serves conditionally admitted students whose TOEFL, IELTS, or other verbal scores are below Colby's standards. Individual English language tutoring is available to any international student at any time during the academic year.

Transfer Students and Veterans

Priority in admissions is to first-year students, though a small number of transfer students are admitted each year. Admission by transfer is open to those with strong academic and personal records from accredited colleges or universities. Application forms

are available online at colby.edu/admissions where there is a link to the Common Application.

Credits from accredited institutions are generally accepted for courses that are comparable to those offered at Colby and in which grades of C or better are received. No more than 64 transferable semester credit hours may be applied toward a Colby degree.

Veterans may request advanced standing consideration for completion of service schools in advance of matriculation. Credit is not granted for military service or College Level Examination Program (CLEP) tests.

Non-matriculated Students

Anyone interested in enrolling as a non-matriculated student must contact the Office of Admissions for information about the application process. Registration in individual courses then 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 Waterville-area secondary school students may be recommended by their schools to take a course. Adults from the immediate Waterville area who are not degree candidates may qualify to take courses at one-half the usual fee or may audit courses at no charge.

Persons wishing to enroll as auditing students must also contact the Office of Admissions and are referred to Auditing Courses in the Academic Procedures section.

FEES AND CHARGES

Annual Basic Charges 2013-2014

	Semester 1	Semester 2	Total
Comprehensive Fee	\$28,755	\$28,755	\$57,510

Annual Basic Charges 2014-2015

	Semester 1	Semester 2	Total
Comprehensive Fee	\$29,750	\$29,750	\$59,500

Calendar of Payments 2013-2014

<i>Upon Acceptance for Admission:</i> Enrollment deposit—new students only (nonrefundable)	\$300
August 1: One half of annual basic charges, less enrollment deposit if applicable	\$28,755
January 2: One half of annual basic charge	\$28,755

Students arriving at Colby for their first semester on campus will also be charged for the Colby Outdoor Orientation Trip (COOT). The fee of \$275 is due the same date as basic charges for the appropriate semester.

Deposits

Enrollment Deposit for All New Students: A nonrefundable deposit of \$300 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.

Study Abroad Deposit: Students participating in a Colby program abroad are required to pay a \$500 deposit. This deposit is forfeited should the student withdraw from the program.

Comprehensive Fee

Tuition: All matriculating students are required to enroll for at least nine credit hours each semester. Exceptions are made by the dean of admissions in the case of nontraditional students and by the dean of students in certain cases of regular students with extenuating circumstances that prohibit them from carrying a normal course load. Students who receive loans and/or grants should be enrolled for at least 12 credit hours per semester to qualify for these funds. In exceptional cases students may be charged on a credit hour basis at the rate of \$1,690 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 comprehensive fee per semester will be charged.

Board: The College offers a board plan of 21 meals per week. Students living in the Alford Apartments will receive a rebate of \$1,570 per semester and will receive 100 meals per semester.

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 Campus Life.

Room and Board Rebate: Students enrolled on campus who are approved to live off campus will receive a room and board rebate of \$3,435 per semester and will receive 100 meals per semester.

Included in the comprehensive fee is an allocation for the Student Government Association and funding of College health services. There are no fees for staff services in the student health center. All full-time students are required to have health insurance coverage while attending Colby. All students are automatically enrolled in the plan underwritten by Commercial Travelers Mutual Insurance Company and billed the \$1,095 annual premium. A student may waive participation in the plan by documenting that he/she has comparable coverage under another insurance policy. Documentation of coverage must be provided annually by fully completing the online health insurance registration form, which can be found at www.colby.edu/sfs. This form must be submitted by Aug. 1, 2013.

Off-Campus, January Program, Miscellaneous Charges

Off-Campus Study Charges

Two types of off-campus study programs are available at Colby: approved non-Colby off-campus study and Colby off-campus programs. Students who are engaged in approved non-Colby off-campus foreign or domestic study programs pay all fees directly to the host institution. For Colby programs abroad and domestic exchanges, a comprehensive fee including tuition, room, board, and travel applies. Financial aid is available to students enrolled in the approved off-campus programs as well as to those enrolled in Colby abroad programs. All Colby abroad programs require a \$500 attendance deposit. Semester fees for the 2013-2014 Colby-billed off-campus programs are as follows:

Semester Charges

Colby at Bigelow Lab	\$28,755
Colby in Dijon	\$28,755
Colby in St. Petersburg	\$28,755
Colby in Salamanca	\$28,755

Students who expect to transfer credits for full-time study in a non-Colby program will be subject to a fee of \$1,000 per semester. This fee will be charged on the Colby tuition bill.

Information regarding application deadlines and other program details may be obtained from the Office of Off-Campus Study.

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.

Students who are not enrolled on campus for either the fall or spring semester will be charged a fee of \$4,870 for tuition only for participating in an on-campus January Program. If on-campus housing is provided, an additional charge will be assessed.

Miscellaneous Charges

Applied Music: A student is notified of the fee that will be charged to the student account when registering for musical instruction in the applied music program. Music majors are eligible for subsidized instruction; refer to Music in the Departments, Programs, and Courses of Study section.

Medications: A student may be charged for the cost of some prescription and nonprescription medicines prescribed by the health services staff.

Fines: Fines are charged for failure to register automobiles, parking violations, late return of library books, checks returned as uncollectible, and disciplinary actions.

Damage to or Loss of College Property: Liability for damage or loss of College property located within individual residence hall rooms lies with the resident(s) of the room. When damage or loss of College property occurs in residence hall common areas (e.g., lounges, hallways, lobbies, bathrooms), the Office of Campus Life will make every effort to identify the individuals responsible and to bill them. In cases in which residential life staff determines that responsibility lies with the residents of a specific section of a residence hall, those students will be billed. When the individuals responsible for damage or loss of College property cannot be identified, the cost of repair or replacement is accumulated by the residence hall. At the end of each semester, the Office of Campus Life, in cooperation with the Physical Plant Department, determines the cost of all unidentified damage and loss of College property and bills the residents of each residence hall on a pro rata basis. Any conflicts regarding assignment of responsibility may be directed to the Judicial Board.

Financial Aid

In order to ensure access and opportunity for students from all economic backgrounds, Colby offers financial aid to admitted students who demonstrate financial eligibility and are enrolled full time. Approximately 1,100 full-time students, or 60 percent of the student body, receive some form of financial assistance, including grants, campus employment, or outside scholarships.

More than \$27 million is awarded annually in grants. The average aid package awarded to 694 grant recipients in 2013-14 was \$38,613. In addition to Colby's own programs, state grants, Federal Pell Grants, Federal Supplemental Educational Opportunity Grants (FSEOG), Federal College Work-Study, and Yellow Ribbon grants may be included in aid awards. Beginning with the 2008-09 academic year, the portion of calculated need previously met with student loans has been met with grants and campus employment; federal student (Perkins and Direct) and parent (PLUS) loans may be available to reduce the family contribution and to supplement the need-based financial aid package.

Colby requires all first-time aid applicants who are U.S. citizens or permanent residents to submit the Free Application for Federal Student Aid (FAFSA) to the federal processor and the Profile form to the College Scholarship Service (CSS) before January 15. On the basis of the FAFSA, the College Scholarship Service Profile (CSS) form, W-2 forms, federal income tax returns, and other forms that may be required for special circumstances, the College determines eligibility within the context of Colby policy and federal regulations. Students who do not complete a financial aid application prior to admission will not be considered for Colby grant assistance for two award years, unless their family financial circumstances change unexpectedly and unavoidably.

Early Decision applicants who wish to be considered for financial aid must file the CSS Profile form before November 15 for Early Decision I and before January 1 for Early Decision II. International students must complete and submit the International Student Financial Aid Application, Certification of Finances, and documentation of family income (bank statements, employers' letters and/or tax forms with translation) by the appropriate deadline.

To provide flexibility, Colby also accepts the Sallie Mae 10-month payment plan and proceeds from parent loans. Students who seek more detailed information may contact the Office of Student Financial Services.

Aid also is available for programs of study abroad and domestic programs of study away that are approved by the Office of Off-Campus Study. The only domestic programs for which federal or Colby aid may be used are those specified in the Off-Campus Study Handbook as Colby-approved programs.

Aid for programs of study off campus is based on the actual cost of the program plus an administrative fee, up to a maximum of Colby's cost. Student loans may enable financial aid recipients to replace semester earnings, which are not available while studying internationally.

Parents and students may review information in the Student Financial Services and Career Center offices concerning scholarships offered by non-Colby organizations.

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 govern eligibility for financial aid in accordance with federal regulations and Colby policy.

Committee decisions of dismissal may be appealed. When students have been readmitted after academic dismissal, federal Title IV assistance (to a maximum of 10 semesters) will be awarded on a cumulative basis according to Colby's published funding priorities for financial aid. All standards are in accordance with federal laws with respect to satisfactory progress. In general, a Colby grant is available only for tuition charged for course work required to obtain a Colby degree, up to eight semesters of full-time enrollment. To ensure maximum aid eligibility, a student must maintain a minimum of 12 credit hours each semester, exclusive of credits taken during January.

Students who are admitted to Colby as other-than-first-semester freshmen are eligible for Colby aid for the number of semesters required for graduation as determined by the College at the time of entry. For example, a student who matriculates as a second semester freshman is considered for up to seven semesters of aid.

Payment

Payment of Bills

Online student account statements are available to enrolled students. Students may authorize the College to make online statements accessible to parents or to discuss financial matters with the parents. In order to do so, permission must be granted by the student through the myColby portal. Instructions on how to grant parental access are available on the portal. Electronic notices will be sent to the student's e-mail account monthly should there be a balance due or as needed to communicate financial transactions, obligations, and pertinent information.

Prior to the first day of classes each semester, student accounts must be paid or satisfactory arrangements made with Student Financial Services. If the balance on the account is to be paid by an outside scholarship, a 30-day late fee waiver will be granted for the amount of the scholarship only if the student notifies Student Financial Services of this information prior to the first day of classes. It is the student's responsibility to ensure that all financial matters are resolved prior to the first day of classes. Payments are applied against charges in the order in which the charges appear on the student's account.

Notwithstanding any other provision in this catalogue, a student's account, including tuition, room and board, fees, charges, and fines, must be paid in full before that student will be allowed to register for classes for an upcoming semester, to receive transcripts, to participate in the annual room draw process, to participate in baccalaureate or commencement exercises, or to receive a degree or diploma.

In the event that a student account is delinquent, the account may be placed with a collection agency or an attorney for

collection. All collection costs, including attorney's fees, will be charged to the student.

The College does not accept either credit cards or post-dated checks for payment of semester charges. Electronic payments from a U.S. checking or savings account can be made at www.colby.edu/sfs. A fee of \$15 is charged for any returned check or electronic payment.

Late Payment Fees

A late payment fee of one percent of an unpaid balance of \$1,000 or more will be assessed at the first of each month for as long as such a balance remains unpaid. A balance must be 30 days old to be assessed a fee. Assessment dates for September and February will coincide with the first day of classes rather than with the first day of those months. In order to avoid late fees it is best to send payment as early as possible, as Colby cannot be held responsible for delays in mail service. Overnight mail or electronic payments are recommended when making payment within two weeks of the first day of classes. Electronic payments from a U.S. checking or savings account can be made at www.colby.edu/sfs under the Student Account Info link.

Loan and Payment Plans

The College makes available a number of loan and payment plans. Those interested in such plans may contact Student Financial Services at 1-800-723-4033.

Refunds

Refunds

Pro rata refunds of the basic charges will be made for students who withdraw either voluntarily or upon advice from the College physician during the enrollment period. The enrollment period is either the fall or spring semester. (Refunds of basic charges are not granted to full-time students withdrawing during the January Program.) A similar refund policy is in effect for Colby off-campus programs.

The College offers an optional tuition refund insurance designed to reduce the financial loss caused by a medical withdrawal. Information is sent to the students by July.

No refund will be made until the withdrawal/leave process established by the dean of students is completed.

Federal regulations determine the amount and the order in which federal loans and scholarships are to be refunded.

No refunds are made for students who elect not to do an on-campus January Program.

Future Tuition and Fees

The College projects that Colby costs likely will increase above inflation in order to maintain the real growth in salaries comparable to professionals outside of higher education, continue a financial aid grant program for about one third of all Colby students, maintain and update the College's physical plant and sophisticated equipment, and retain flexibility for currently unforeseen but essential investments that will be needed to keep Colby in the forefront of innovation and excellence in national liberal arts colleges.

General Information

Student Financial Services is located on the first floor of the Garrison-Foster Building. Staff members are available on weekdays between 8:30 a.m. and 4:30 p.m. to answer questions about student accounts, financial aid, student and parent loans, and College financial policies.

STUDENT AFFAIRS AND CAMPUS LIFE

The Colby Experience

Student life at Colby is centered on the notion that learning extends beyond the classroom into all aspects of the college experience. As shaped by the College's mission and precepts, a Colby education is characterized by academic rigor, a strong community, a friendly campus atmosphere, global reach, and active engagement with diversity of thought and human difference.

Student Affairs Mission Statement

Colby's Division of Student Affairs exists to support and enhance the College's mission to provide students a broad acquaintance with human knowledge designed to enable each student to fulfill his or her own unique potential. The student affairs staff provides instruction, advice, and support to help students become critical thinkers, effective communicators, ethical leaders, engaged citizens, and creators of knowledge with broad exposure to and understanding of human difference and diversity.

Colby 360

Colby 360: The Plan for Student Life and 360-Degree Learning at Colby asserts as its guiding principle the idea that a residential college affords students opportunities to learn and develop in all aspects of their college lives. Colby 360 establishes a setting for student life designed to achieve five specific learning outcomes: 1) development of life skills, 2) appreciation of and engagement with diversity and human difference, 3) understanding democracy and civic responsibility, 4) promoting wellness and healthy lifestyle choices, and 5) leadership education for the 21st century. Colby 360 provides opportunities for students to learn and practice important life skills such as self-governance, independence, personal accountability, civic responsibility, and respect for

themselves and others. More detailed information about Colby 360 is on the Student Affairs website.

Student Affairs Departments and Staff

The Division of Student Affairs oversees student life and learning outside of the classroom, and it comprises the following programs and departments: offices of the Dean of Students, Campus Life, the Career Center, Diversity and Human Difference, International Students, Religious and Spiritual Life, Counseling Services, Health Services.

Experienced student affairs staff members advise and counsel students on the full range of academic, social, career, and personal matters. Student affairs staff members help students to shape and maintain positive living and learning communities, opportunities for civic engagement and leadership development, and a rich array of social options. Professional members of the staff are on call at all times when the College is in session.

Advising Deans

The advising dean program supports and enhances Colby's commitment to first-rate, individual advising of students. In addition to having an academic advisor from the teaching faculty, every Colby student is assigned an advising dean to provide advice and support during their time at the College. The advising deans are knowledgeable about issues and problems that arise for students and are a good source of information about College resources and policies. They offer general advising as well as referrals to other campus offices. The advising deans help students and parents manage academic and non-academic situations as they arise, consulting extensively with faculty and staff across the College.

Orientation

Special attention is given to the task of welcoming and orienting new students into the Colby community. From the time of admission until they arrive on campus, new students are invited to make use of the admitted students' website to get answers to questions they may have. First-year students come to campus a week prior to the start of fall classes and participate in a comprehensive orientation program designed to introduce them to the academic program as well as all aspects of residential, cocurricular, and social life at Colby. As part of orientation, first-year students are required to participate in COOT (Colby Outdoor Orientation Trips). Upperclass COOT leaders and residential Community Advisors (CAs) serve as peer mentors for new students during orientation and throughout the year.

The Residential College Experience

The residential experience at Colby is designed to extend and integrate intellectual inquiry and discourse into the residences and dining halls. Students are expected to live in College housing and are required to subscribe to an on-campus board plan. Individual residence hall sizes accommodate from 30 to 166 students per building. Students from all four class years are housed in each building, with the exception of the Harold and Bibby Alford Residence Complex, which houses only seniors. Students have access to a variety of different housing options within the Colby residential system including but not limited to dialogue housing, substance-free, and quiet living. Each year a small number of students are permitted to live off campus and are generally assigned by a lottery system with first priority given to seniors. More detailed information about residential living at Colby can be found on the Campus Life website.

Dining Services

The College offers a board plan of 21 meals per week for all resident students. Meals are served in three separate on-campus dining halls—in Foss Hall, Dana Hall, and Roberts Building, each with a different menu. Students living in the Alford Residence Complex or off campus who do not subscribe to the full meal plan are entitled to a partial rebate on the comprehensive fee (see Fees and Charges section of the catalogue).

Cotter Union/Pulver Pavilion

Cotter Union is located near the center of the campus and serves as the student center and a venue for more formal gatherings including lectures and performances. The Office of Campus Life, the Colby Bookstore, the student mail room, the Blue Light Pub, offices of the Student Programming Board, the Pugh Center, and the Page Commons Room are in Cotter Union. The Pulver Pavilion features a variety of informal spaces and a snack bar and grill called The Spa.

Student Organizations and Leadership Development

The Office of Campus Life is committed to creating opportunities for students to explore, practice, and develop their leadership capabilities. Leadership development occurs through experiences with student organizations and clubs as well as through retreats, trainings, and workshops. Colby has approximately 100 student-led clubs and organizations focused on cultural, athletic, musical, political, publication, religious, service, or other themes.

The Pugh Center and Multicultural Affairs

The mission of the Pugh Center is to promote multicultural communication, awareness, and understanding. The Pugh Center is the intellectual and social focal point on campus for conversation, exploration, and celebration of diversity at Colby. Throughout the academic year a variety of programs, including lectures, performances, concerts, symposia, and other events, are sponsored to invite exploration of different cultures and educate the broader Colby community about multicultural issues.

The Pugh Center, linked to the Cotter Union is also home to 14 student clubs devoted to issues of race, ethnicity, gender, culture, sexual orientation and identity, and spirituality. It includes a common space with a stage to offer a wide array of programs presented by Pugh student clubs, the Pugh Community Board, and partnering academic departments focused on multicultural awareness and understanding. The Pugh Center program reflects Colby's vision of a diverse and open society: one in which all members are free to be themselves and to explore, affirm, and celebrate who they are; a community in which students, faculty, and staff alike recognize, respect, honor, and learn from both their differences and shared commonalities.

Governance

Students play significant roles in shaping student life through the Student Government Association (SGA), the Student

Programming Board (SPB), the Pugh Community Board (PCB), and in the official committee structure. The president and vice president of the SGA serve as student representatives to the Board of Trustees, and students serve on College committees including Academic Affairs, Administrative, Admissions and Financial Aid, Athletic Advisory, College Affairs, Cultural Events, Financial Priorities, Healthcare Advisory, Independent Study, Information Technology, Library, Multicultural Affairs, Race and Racism, and the Environmental Advisory Group.

Safety and Security

Colby's Security Department works to provide a safe and secure environment for the Colby community. The department, located in the Roberts Building, is open 24 hours a day, seven days a week. Trained, professional officers patrol campus on foot and in cruisers. A blue-light emergency phone system is in place throughout the campus with more than 50 call boxes. The ColbyCard electronic access system is in use in all residence halls and academic buildings. The Security Department provides ride and escort services upon request. The department operates a free jitney service to downtown and other Waterville shopping centers. The Colby Jitney operates on a scheduled basis daily from 2 to 7 p.m., and on an on-call basis after 7 p.m. A campus emergency notification system was installed in 2008. Colby's uniform crime reporting statistics are available on the Security Department website.

Colby Health Services

Colby's Garrison-Foster Health Center, in the Garrison-Foster Building, is the only AAAHC accredited college health center in Maine. Its mission is to enhance the academic environment at Colby by providing quality health care, health education, and preventive services to students in a caring, cost effective, and convenient manner. The health center provides a bridge for the health-care needs of our students as they transition away from home, often for the first time. The health center emphasizes preventive and outpatient care.

The health center is available to all students at no cost for routine office visits.

The health center is staffed by a dedicated group of medical providers with experience in caring for college students. They provide general medical care and additional services in sports medicine/rehabilitation, women's health, drug and alcohol use/abuse, and travel medicine. A registered dietician and a board-certified psychiatrist are also available for consultation. Students who need emergency care or more specialized attention are sent to MaineGeneral Medical Center, a major regional hospital located less than a mile from Colby.

Appointments with medical practitioners are available weekdays during business hours for students. Students can see a nurse if they are sick after hours or during regular hours to have injuries evaluated, get allergy shots, or arrange immunizations for travel abroad.

Colby Emergency Response (CER) is a group of students trained as radio-dispatched Emergency Medical Technicians (EMTs) who respond to health emergencies on campus. This network supplements the care provided by the health center staff to ensure that all accident/illness victims on campus are assisted swiftly and skillfully.

Health Records

No student will be allowed to register, attend classes, or participate in any campus activities, including COOT (Colby Outdoor Orientation Trips), until health and immunization records have been received and approved by the College's health center. Documentation of a physical examination within the past 12 months is required. For students participating in varsity athletics, the NCAA requires that the physical examination be in the past six months. Proof of the following immunizations is also required: tetanus and diphtheria (primary series plus booster within 10 years), polio series plus booster, meningitis vaccine, and two doses of measles, mumps, and rubella vaccines given after the first birthday.

Not required but recommended are the hepatitis B immunization series and a chicken pox vaccine if there is no history of this disease. Students are encouraged to discuss these recommended vaccines with their health-care provider during the summer. Arrangements can be made through the health center to receive these non-required vaccines.

Maine state law requires that immunization records be complete, showing month, day, and year that immunizations were given, and that they include the signature and address of the health-care provider; a valid copy of school immunization records or hospital/clinic records also may be acceptable. Details can be found in the immunization form mailed to all students or on the health center website. If proof of vaccinations cannot be obtained, vaccines should be administered again by the student's health-care provider before the student travels to Colby. It is expected that physical exams and immunization forms will be completed by July 15.

General Regulations

All students are expected to know of the regulations in the Colby College Student Handbook and in the Colby College Catalogue. The handbook covers academic, administrative, and social regulations.

Student Records

Colby complies with the Family Educational Rights and Privacy Act of 1974 (FERPA), which establishes the rights and restrictions of students to inspect and review education records, provides guidelines for the correction of inaccurate or misleading data, and establishes standards for disclosure of student information. Complete guidelines used by the College for compliance with the act are published in the Student Handbook and may be obtained at the Dean of Students Office.

Career Center

The Colby Career Center assists students and alumni with career exploration. Members of the Career Center staff teach job search skills and introduce students to a wide range of resources for achieving career goals and for locating specific employment, fellowships, and graduate school opportunities.

The Career Center provides a rich offering of programs, workshops, and resources to help students learn about career planning, including résumé consultations, mock interviews, reference files, job and internship listings, on- and off-campus recruiting events, graduate school admissions test information, and a variety of Web-based resources. Graduates benefit from alumni workshops and seminars that offer them ideas and continued support as their career plans evolve.

Colby Connect is a four-year Career Center program that inspires success through a sequence of practical workshops, information sessions, and related programming. Colby Connect engages students by connecting them to fellowships, internships, job shadowing, Jan Plan and employment opportunities, and graduate studies. Colby Connect integrates alumni, parents, faculty, and recruiters into Career Center programming. Detailed information about the Career Center and its programs is available on the Career Center website.

ATHLETICS

The Department of Athletics offers lifetime fitness classes and sponsors intramural sports, intercollegiate athletics (varsity programs), informal recreational activities, aerobics programs, and club sports, offering opportunities for all levels of athletes and various levels of competitiveness and intensity.

More than a third of Colby students participate in one or more varsity teams. Colby belongs to Division III of the National Collegiate Athletic Association (NCAA) and the New England Small College Athletic Conference (NESCAC), one of the most competitive Division III conferences in the nation. Colby sponsors 32 intercollegiate sports, 16 for women, 15 for men and 1 coed team. Varsity teams include baseball, basketball, crew, cross country, field hockey, football, golf, ice hockey, lacrosse, squash, Nordic and alpine skiing, soccer, softball, swimming, tennis, indoor and outdoor track and field, and volleyball.

The NESCAC, founded in 1971, includes 11 highly selective liberal arts colleges that are committed to academic excellence and believe that athletic excellence supports their educational mission. Each institution is committed to a comprehensive athletic program available to the entire student body, equitable treatment of all participants in athletic activities, the highest ethical standards in conference relationships, and equitable competition among member institutions.

The Athletics Department offers intramural programs during the fall, winter, and spring. Offerings include soccer, field hockey, flag football, volleyball, broomball, basketball, softball, and special intramural events.

The department oversees student-run club sports, which are offered if there is enough student interest to sustain the club. Recent club sports have included men's and women's rugby, the woodsmen's team, badminton, Ultimate Frisbee, bicycling, water polo, men's volleyball, fencing, and an equestrian team.

Lifetime fitness classes are offered for students, faculty, and staff. Past offerings for students include aerobics, yoga, cross-training, circuit training, modern dance, and Tabata classes.

Indoor athletic facilities in the Harold Alfond Athletic Center include Wadsworth Gymnasium, Alfond Ice Rink, Dunaway Squash Courts, the 5,300-square-foot Boulos Family Fitness Center, a 25-yard by 25-meter indoor swimming pool, an aerobics studio, and the field house, which includes a newly resurfaced eighth-mile indoor track, four full-size tennis courts, a 27-foot climbing wall, a batting cage, and jumping pits.

Outdoor facilities include two artificial turf fields: Seaverns Field, a long-grass synthetic turf field, which is the primary field for football; and Bill Alfond Field, a "carpet" surface, which is the primary field for field hockey and lacrosse. A 2008 project installed the artificial turf football field, rebuilt the quarter-mile all-weather Alfond Track, and created a stadium feel around Seaverns Field in the Harold Alfond Stadium. Other outdoor facilities include Coombs Field and Crafts Field for baseball and softball respectively, a game field and two practice fields for soccer, the Alfond-Wales Tennis Courts (10 hard-surface outdoor courts) and the Klein Tennis Pavilion, the 8.5-mile Campbell Cross Country Trails for running and Nordic skiing, a woodsmen's area for traditional lumberjack competition, and other fields for rugby and other sports. Seven miles from campus, the Colby-Hume Center is a 10-acre estate on Messalonskee Lake with a boathouse and docks for the crew teams.

For information about the Department of Athletics, teams, and the department's faculty and coaching staff, visit our website.

LIBRARIES

Colby's libraries—Miller Library, the Art and Music Library, and the Science Library—have a rich collection of books, e-books, electronic and print journals, digital research collections, music scores, sound recordings, videos/DVDs, and manuscripts. Computer labs, wireless networks, laptops, study areas, and a digital media lab are available for student use in all three facilities.

Miller Library houses the humanities and social science collections, the College archives, and Special Collections. The lowest level

in Miller, known as The Street, contains a computer lab and individual and group study space that is open 24 hours a day. The Bixler Art and Music Library features an extensive collection of art and music books, journals, sound recordings, music scores, and a digital media lab. The Science Library houses books, journals, videos, and topographic maps that support programs in the natural sciences, computer science, and mathematics. A new on-campus, state-of-the-art, climate-controlled storage building houses one half of the collection. Items in the storage building may be requested and are delivered to Miller Library for pickup.

In strong support of the curriculum, the libraries provide easy access to more than 900,000 items including more than 300 electronic indexes, 12,700 sound recordings, 12,000 videos (most on DVD), 515 currently received print journals, 750,500 electronic books, more than 61,500 electronic journals, many extensive runs of periodicals, and domestic and international daily newspapers. The Colby libraries also are a repository for U.S. government documents.

As a member of the Colby-Bates-Bowdoin consortium and MaineCat, Colby provides access to a catalog of more than eight million items and six-day-a-week courier service from libraries in Maine. NExpress, comprising Colby, Bates, Bowdoin, Middlebury, Wellesley, and Williams, provides additional access to research materials. Reference librarians and interlibrary loan staff help identify and obtain additional resources. Twelve professional librarians provide research assistance to students, faculty, and outside researchers. Instruction in the use of the library and its research materials is offered throughout the curriculum, from an introduction in beginning English classes to in-depth subject searching using sophisticated tools in upper-level classes.

Colby Libraries Special Collections' first editions and manuscripts have achieved international recognition. The Edwin Arlington Robinson Memorial Room, named for the Pulitzer Prize-winning Maine poet, contains his books, manuscripts, letters, and memorabilia. Colby's Thomas Hardy Collection is one of the most extensive in the country. Other authors represented include A.E. Housman, Sarah Orne Jewett, Kenneth Roberts, Henry James, Willa Cather, John Masefield, William Dean Howells, Wes McNair, and Thomas Mann.

The John and Catherine Healy Memorial Room contains the James Augustine Healy Collection of Modern Irish Literature, with inscribed copies, manuscripts, and holograph letters of William Butler Yeats, Sean O'Casey, James Joyce, George Bernard Shaw, and others. The Healy Collection has 7,000 primary and critical sources representing the Irish Literary Renaissance, 1880-1940. The Alfred King Chapman Room houses the College archives, which hold more than 4,000 manuscript files pertaining to Colby alumni, faculty, and staff dating from 1813 to the present. The archives include an extensive collection of books by Colby graduates and faculty members.

Detailed information about Colby's library collections, services, and hours is provided at www.colby.edu/library/.

INFORMATION TECHNOLOGY

Information technology resources, including computers and network resources, are tools for scholars in all disciplines, used by faculty members and students. The College is committed to making appropriate computing resources available to support the academic program. In all courses, faculty and students use computers in some way, and the College's official means of communication is electronic.

Personal computers are available for student use in computer labs and public areas throughout campus. Specialized computing facilities dedicated to particular departments are located in biology, chemistry, computer science, geology, mathematics, music, physics, and psychology, as well as in the Language Resource Center. Advanced systems are available in the Schupf Scientific Computing Lab and the GIS Lab. Macintosh and Windows notebook computers are available for four-hour loan in the libraries.

A Colby account is set up for each student, providing access to Web resources, Colby Apps powered by Google (e-mail, calendar, etc.), central file storage, and storage of personal Web pages linked to the campus Web server. It is expected that students will check their Colby Apps e-mail accounts regularly. A variety of announcement and discussion lists are provided. The MyColby portal system (my.colby.edu) provides a customized set of resources, especially in support of administrative processes. A course management system (Moodle) is available for faculty and student use, and the Confluence wiki and Wordpress Web publishing system are available for collaborative projects of all sorts.

Colby's data communications network is built around a 10-gigabit core and a gigabit Ethernet backbone. All residence halls have wired Ethernet access to the network. Wireless network access (802.11abgn) is available throughout all buildings. The College has high-bandwidth Internet access (1 Gbps over multiple fiber optic links).

Colby has a Microsoft Campus Agreement that provides for each student a license to Microsoft Office and a variety of other software, including all upgrades.

Assistance may be obtained from student consultants at Student Computer Services and from the Information Technology Services staff. Drop-in and online instructional resources are available to introduce the computer and network systems and various applications. The ITS website provide extensive information online.

All classrooms have data/video/audio presentation systems installed. Satellite downlink and commercial cable TV provide programming on the campus cable TV system.

The Information Technology Committee, made up of faculty, staff, and students, approves IT policies and advises ITS and the

president. All meetings are open, and those interested in information technology issues are encouraged to participate in discussions.

COLBY COLLEGE MUSEUM OF ART

Founded in 1959 and now comprising five wings, nearly 8,000 works, and more than 38,000 square feet of exhibition space, the Colby College Museum of Art has built an important collection that specializes in American and contemporary art with additional, select collections of Chinese antiquities and European paintings and works on paper. The museum serves as a teaching resource for Colby College and is a major cultural destination for the residents of and visitors to Maine.

The museum's educational program is designed with Colby students as its primary focus; currently more than 80 academic courses visit the museum each year. The museum's education department regularly works with Colby's faculty to further integrate object-based learning into the curriculum. In addition, Colby students have numerous opportunities to participate in the museum's student docent, internship, and work-study programs.

The museum has a robust events program throughout the academic year that includes artist talks, lectures, and performances as well as film screenings and concerts. The museum frequently partners with the Goldfarb Center for Public Affairs and Civic Engagement and Colby's Center for the Arts and Humanities to increase faculty and student engagement with the museum across the curriculum.

In July 2013 the Colby Museum of Art inaugurated the Alfond-Lunder Family Pavilion. The pavilion provides a spacious lobby that includes a sculpture gallery and terrace as well as new exhibition galleries, classrooms, expanded collection storage, and staff offices. A three-story wall drawing by conceptual artist Sol LeWitt occupies the glass-enclosed stairwell. The pavilion's upper floor is dedicated to the College's Art Department, providing new studios for photography and fine arts foundation classes.

GOLDFARB CENTER FOR PUBLIC AFFAIRS AND CIVIC ENGAGEMENT

The Goldfarb Center for Public Affairs and Civic Engagement, established in 2003, serves to organize, focus, and leverage Colby's efforts to foster active citizenship in the local community, on the national stage, and throughout the world. Through the center, Colby students make connections between their work in the classroom and contemporary political, economic, social, and environmental issues. Building on Colby's established strengths in the social sciences and interdisciplinary programs, the center provides a structure and a setting in which faculty and students work together to develop creative, interdisciplinary approaches to complex challenges. Students are at the heart of the center's programming, actively involved as fellows, research assistants, event and conference planners, volunteers and mentors, and civic engagement liaisons.

Among much else, the Goldfarb Center aspires to

- Become a national leader in public affairs programming;
- Confront salient, difficult issues to reveal complexities, implications and solutions;
- Create and support unique initiatives for the betterment of the Colby community and for the advancement of others in central Maine and beyond;
- Be a resource for individuals and civic groups working for the improvement of our democracy;
- Be a reliable resource of information and expertise for those doing similar work and for regional and national media outlets.

Public Affairs Programming

The Goldfarb Center brings prominent and influential scholars and policymakers to campus each year to discuss and debate global events as they unfold. High profile events such as the Senator George J. Mitchell Distinguished International Lecture Series bring to campus leaders spanning the fields of political science, professional media, and international affairs. Public affairs programming also includes a regular schedule of panels, dinners, lectures, and film screenings, providing students and faculty with many opportunities to network and share ideas.

Civic Engagement

Over half of the Colby student body is actively engaged in civic engagement activities coordinated through the Goldfarb Center.

The Colby Cares About Kids program, in which more than 500 Colby mentors meet weekly with schoolchildren at 15 sites in central Maine, is a model adopted by other colleges across the country. The student-run Colby Volunteer Center (CVC) coordinates volunteer work of more than 300 students who serve in local organizations. The CVC also organizes special projects including Colby Cares Day, a city-wide day of service. Approximately 30 courses have civic engagement components through which students work with organizations whose missions are connected to and inform material learned in class.

Faculty/Student Research

Through grants awarded over the course of the year, the center encourages collaborative, interdisciplinary research among faculty members and students as well as innovative student research. Participating faculty members are appointed as Goldfarb Center Research Fellows, and students are appointed Sandy Maisel Research Fellows. Where possible their work is integrated into other center programs.

The Maine Concussion Initiatives Program

The Maine Concussion Management Initiative (MCMI), founded in 2009, is a community partnership program sponsored by the Goldfarb Center that works to enhance the health and safety of Maine high school athletes by educating medical practitioners and school administrators about the dangers of traumatic brain injury and the importance of consistent concussion management. The initiative is directed by volunteers including physicians, parents, athletic trainers, neuropsychologists, teachers, and other professionals dedicated to minimizing the effects of concussion on Maine youth.

The Cotter Debates, Elijah Parish Lovejoy Award in Journalism, Morton A. Brody Distinguished Judicial Service Award

The Cotter Debates bring national and international experts to campus for spirited discussion of controversial topics. The Lovejoy Award honors a journalist whose craft and courage display qualities exemplified by Elijah Parish Lovejoy, valedictorian of the Colby Class of 1826 and America's first martyr to freedom of the press. The Brody Award honors a state or federal jurist whose work recalls the career of Judge Morton Brody, a Waterville resident with close ties to the College. The center coordinates programs around both awards, giving students opportunities to interact with the recipients and national leaders who come to campus to honor the winners.

OAK INSTITUTE FOR THE STUDY OF INTERNATIONAL HUMAN RIGHTS

The Oak Institute for the Study of International Human Rights, established in 1998, annually brings to campus a prominent human rights practitioner. While in residence the Oak Human Rights Fellow teaches, pursues research, and works with faculty and students to organize lectures and other events related to his or her area of expertise.

The 2013 Oak Human Rights Fellows are Maung Maung Than and Myanandar Aung, a husband and wife team who have worked with the United Nations High Commission on Refugees on rights of the stateless Rohingya people in western Burma and are working with other organizations to encourage Buddhist-Muslim reconciliation. The state of Rahkine in western Burma has a history of tension between Buddhists and Muslims. One marginalized group, known as the Rohingya, are not officially recognized as citizens of Burma and face a wide variety of human rights abuses, including extortion, forced eviction, destruction of property, forced labor, and restrictions of their freedom of movement. The fellows have the ability to cover both sides of the conflict occurring in Rahkine, as one fellow identifies as Muslim, while the other was born to a Muslim father and a Burmese mother. Despite their different upbringings, both Maung Maung Than and Myanandar Aung work to protect the rights of the stateless Rohingya and improve their living conditions through monitoring and reporting on human rights abuses, creating dialogues with authorities, and educating community members on universal rights. For more information see colby.edu/oak.

FARNHAM WRITERS' CENTER

The Farnham Writers' Center is a peer-to-peer tutoring arm of the Colby Writing Program and a writing resource for students, faculty, staff, and the local community. Writers' Center staff members operate the center with the philosophy that writing is not a discrete skill but rather an important part of thinking and learning. We work with writers at all levels of development, at any point during their writing processes, from first ideas to final drafts.

Since writing occurs in courses across the curriculum at Colby, peer tutors are prepared to respond to various forms of discipline-specific writing—lab reports, case studies, application essays, and response writing, for example, as well as standard academic essays. Selected students are also trained as Writing Fellows, experienced tutors who are assigned to work with faculty members and students in writing-intensive courses

While many elect to use the Writers' Center from time to time on particular pieces of writing, some may prefer more intensive collaboration and choose to enroll in English 112, a one-credit course that establishes weekly meetings with designated staff

members.

Writers' Center staff members work with writers across Colby's diverse extended community: first-year composition students; students with particular writing difficulties, including diagnosed learning differences; senior scholars; students for whom English is not a first language or who do not speak English in their home environments; job and graduate school applicants; fellowship candidates; and all writers interested in developing skills specific to personal, professional, and civic contexts.

The Farnham Writers' Center, located on the second floor of Miller Library, is open weekdays and Sunday through Thursday evenings. Appointments may be made online. Students with questions may call extension 5290 (207-859-5290).

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Rebecca Littleton Corbett '74, M.A. '06, Baltimore, Maryland, *Deputy Bureau Chief, Washington Bureau, New York Times* (2014)

William R. Cotter, M.A. '79, LL.D. '00, J.D., Concord, Massachusetts, *Retired President, Oak Foundation; President Emeritus, Colby College* (Life Trustee)

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William H. Goldfarb '68, M.A. '85, J.D., Farmington, Connecticut, *Principal, HRW Resources Inc.* (2014)

Michael L. Gordon '66, M.A. '04, J.D., New York, New York, *Chief Operating Officer, Angelo Gordon & Company* (2017)

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Harry F. Krensky '85, M.A. '09, M.B.A., Bedford Corners, New York, *Principal and Founding Partner, Atlas Discovery Capital* (2017)

Seth W. Lawry, M.A. '06, M.B.A., Weston, Massachusetts, *Managing Director, Thomas H. Lee Partners, L.P.* (2014)

Paula Crane Lunder, M.A. '98, D.F.A. '98, Scarborough, Maine, *Kenilworth, Inc.* (Life Trustee)

William J. Montgoris, M.A. '99, B.B.A., Demarest, New Jersey, *Retired Chief Operating Officer, Bear Stearns and Company, Inc.* (2016)

Betsy L. Morgan '90, M.A. '09, M.B.A., New York, New York (2017)

Jeffrey N. Packman '88, M.A. '12, M.B.A., Weston, Massachusetts, *Drug Development Operations, HealthCare Ventures LLC* (2016)

Randy Papadellis '79, M.A. '11, M.B.A., Hopkinton, Massachusetts, *President and Chief Executive Officer, Ocean Spray Cranberries, Inc.* (2015)

M. Jane Powers '86, M.A. '05, M.S.W., Medford, Massachusetts, *Director of Behavioral Health, Fenway Health* (2016)

Lawrence R. Pugh '56, M.A. '82, LL.D. '99, Falmouth, Maine, *Retired Chairman and Chief Executive Officer, VF Corporation* (Life Trustee)

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Kathleen Pinard Reed '86, M.A. '11, M.D., Woolwich, Maine (2015)

Lou Richardson '67, M.A. '11, Wellesley, Massachusetts, *Controller, Xerox Corporation* (Al. 2014)

Eric Rosengren '79, M.A. '10, Ph.D., Sharon, Massachusetts, *President and Chief Executive Officer, Boston Federal Reserve Bank* (2014)

Moses Silverman '69, M.A. '13, New York, New York, *Partner, Litigation Department, Paul, Weiss, Rifkind, Wharton & Garrison LLP* (2017)

Dilan V.K. Siritunga '92, M.A. '09, New York, New York, *Managing Director, Serendiv Capital Management LLC* (Al. 2015)

Edward A. Snyder '75, M.A. '09, Ph.D., New Haven, Connecticut, *Dean, Yale School of Management* (2017)

Charles Terrell '70, M.A. '06, Ed.D., Brookline, Massachusetts (2014)

Joerose Tharakan '08, M.A. '13, Pittsburgh, Pennsylvania, *Account Executive, Microsoft Corporation* (2016)

Richard Y. Uchida '79, M.A. '06, J.D., Bow, New Hampshire, *Partner, Hinckley, Allen & Snyder* (2014)

Amy E. Walter '91, M.A. '11, Arlington, Virginia, *National Editor, Cook Political Report* (2014)

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Frank O. Apantaku '71, M.A. '87, M.D., 1987-1993, 1994-1997

Carol M. Beaumier '72, M.A. '97, 1997-2003

Anne Lawrence Bondy '46, M.A. '81, 1981-1987

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John B. Devine Jr. '78, M.A. '06, 2006-2012

Gerald Dorros, M.A. '02, Sc.D. '01, M.D., 2002-2010

Robert M. Furek '64, M.A. '90, M.B.A., 1990-1999

Robert Sidney Gelbard '64, M.A. '04, LL.D. '02, M.P.A., 2004-2012

Anne Ruggles Gere '66, M.A. '98, Ph.D., 1998-2004

Jerome F. Goldberg '60, M.A. '89, J.D., 1989-1994
 Rae Jean Braunmuller Goodman '69, M.A. '83, Ph.D., 1983-1989
 Peter G. Gordon '64, M.A. '95, M.B.A., 1995-1998
 Deborah England Gray '85, M.A. '92, J.D., 1992-2005
 Todd W. Halloran '84, M.A. '06, M.B.A., 2006-2012
 Eugenie Hahlbohm Hampton '55, M.A. '72, 1972-1978
 Peter D. Hart '64, LL.D. '85, M.A. '89, 1989-1993, 1995-1999
 George E. Haskell Jr. '55, M.A. '92, 1992-1997
 Ellen Brooks Haweeli '69, M.A. '93, 1993-1999
 Nancy Spokes Haydu '69, M.A. '86, M.Ed., M.C.R.P., M.A., 1986-1994
 Timothy B. Hussey '78, M.A. '03, M.B.A., 2003-2009
 Emma J. James '04, M.A. '07, J.D., 2007-2013
 Nancy Joachim '98, M.A. '02, J.D., 2001-2007
 Audrey Hittinger Katz '57, M.A. '96, 1996-2001
 Colleen A. Khoury '64, M.A. '95, J.D., 2004-2012
 Beverly Nalbandian Madden '80, M.A. '86, 1986-1992, 1994-2002
 Joanne Weddell Magyar '71, M.A. '02, 2001-2007
 Robert A. Marden '50, M.A. '68, LL.B., 1968-1974, 1974-1993
 David M. Marson '48, M.A. '84, 1984-1993
 Rita Ann McCabe '45, M.A. '66, 1966-1972, 1973-1983 (deceased July 28, 2013)
 Lawrence C. McQuade, M.A. '81, LL.B., 1981-1989
 Paul A. Nussbaum, M.A. '98, J.D., 1998-2002
 William A. Oates Jr. '65, M.A. '05, M.B.A., 2005-2013
 Kate P. Lucier O'Neil '85, M.A. '00, M.B.A., 2000-2006
 Kershaw E. Powell '51, M.A. '82, D.M.D., 1982-1988
 Patricia Rachal '74, M.A. '80, Ph.D., 1980-1986
 William J. Rouhana Jr. '72, M.A. '99, J.D., 1999-2007
 Robert A. Rudnick '69, M.A. '04, J.D., 2004-2010
 Robert C. Rowell '49, M.A. '61, 1961-1967
 William J. Ryan, M.A. '00, M.B.A., 2000-2006
 Robert Sage '49, M.A. '74, 1974-1986, 1987-1993
 Richard R. Schmaltz '62, M.A. '76, M.A., 1989-1995, 2001-2009
 Paul J. Schupf, B.A., M.A. '91, LL.D. '06, 1991-2001, 2002-2006
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 Albert Stone '51, M.A. '96, M.B.A., 1996-1999
 W. Clarke Swanson Jr., M.A. '70, LL.B., 1970-1976
 Michael S. Sylvester '63, M.A. '03, M.B.A., 2003-2011
 M. Anne O'Hanian Szostak '72, M.A. '74, Ph.D., 1974-1982, 1995-2002
 Arthur T. Thompson '40, M.A. '70, M.B.A., 1970-1974
 Barbara Howard Traister '65, M.A. '88, Ph.D., 1988-1994
 Beth Brown Turner '63, M.A. '89, M.A., 1989-1992, 1993-1996
 Allan van Gestel '57, M.A. '99, LL.B., 1999-2005
 Peter A. Vlachos '58, M.A. '77, 1977-1980

Nancy Greer Weiland '65, M.A. '02, Ph.D., 2002-2010
Anne Clarke Wolff '87, M.A. '02, M.B.A., 2002-2010
Joshua C. Woodfork '97, M.A. '09, Ph.D., 2007-2013
Robert F. Woolworth, M.A. '65, 1965-1977
John R. Zacamy Jr. '71, M.A. '92, M.B.A., 1992-1996, 1996-2001, 2002-2003

Overseers

Elizabeth McKenna Ainslie '87, Locust Valley, New York, *Interior Decorator, Elizabeth Ainslie Interiors* (2014), Visiting Committees on Women's, Gender, and Sexuality Studies and on Art
James Patrick Allen IV '86, Dover, Massachusetts, *Managing Director, Credit Suisse* (2017)
Jonathon K. Barry '98, Brooklyn, New York, *Managing Director, Goldman Sachs and Company* (2015)
Remi J. Browne '74, M.S., Boston, Massachusetts, *Adjunct Professor, Carroll School of Management, Boston College* (2014), Visiting Committees on Sociology, on German and Russian, and on Overseers Program
Robert J. Bruce '59, West Chester, Pennsylvania, *Retired President, Widener University* (2014), Visiting Committees on Off-Campus Study, on Athletics, and on Overseers Program
Malcolm G. Chace Jr. '90, Providence, Rhode Island, *Managing Director, Oppenheimer & Co.* (2016), Visiting Committee on History
David H. Cody '92, New York, New York, *Managing Director, Fortress Investment Group LLC* (2014), Visiting Committee on Anthropology
Robert E. Compagna '76, Wethersfield, Connecticut, *Retired North East Division Sales President, Rexel CLS, Inc.* (2015), Visiting Committee on Jewish Studies
David M. Descoteaux '91, New York, New York (2016)
Alice D. Domar '80, Ph.D., Sudbury, Massachusetts, *Executive Director, Domar Center for Complementary Healthcare* (2014), Visiting Committee on Student Services
Mark D. Gildersleeve '77, M.A., South Dartmouth, Massachusetts, *President, WSI Corporation* (2015), Visiting Committee on Libraries
Dan B. Harris '93, LL.D. '05, New York, New York, *Anchor, ABC News, Inc.* (2015), Visiting Committee on English
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Gregory G. Johnson, B.S., Harpswell, Maine, *Retired Admiral, United States Navy* (2014), Visiting Committees on Chemistry and on Information Technology
Henry R. Kennedy '80, Cumberland Center, Maine, *Executive Director, Kieve-Wavus Education Inc.* (2015), Visiting Committees on Student Services and on Global Studies
Jason A. Klein '97, Rye Brook, New York, *Curator, Edith G. Read Wildlife Sanctuary* (2017), Visiting Committees on Science, Technology, and Society and on Dining Services
Kirk J. Koenigsbauer '89, Seattle, Washington, Corporate Vice President, Microsoft Corp. (2016)
Michael E. Koester '94, Bronxville, New York, *Managing Director, Merchant Banking Division* (2015)
William H. Koster '66, Boston, Massachusetts, *President/CEO, Northern Pilot Company LLC* (2014). Visiting Committee on Physics and Astronomy
Miguel Leff '98, San Diego, California, *Law Office of Miguel Leff* (2017)
Peter H. Lunder '56, D.F.A. '98, Scarborough, Maine, *Chairman, Kenilworth, Inc.* (Life Overseer)
Edward Marchetti '60, Essex, Massachusetts, *SOC Signatory, Pearson Pilings LLC* (2017), Visiting Committees on Science, Technology, and Society and on Overseers Program
Lynn McKinley-Grant '69, M.D., Washington, District of Columbia, *Dermatologist, Lynn McKinley-Grant, M.D., P.C.* (2014)
Thadeus Mocariski '84, Providence, Rhode Island, *Key Venture Partners* (2017)
Daniel B. More '78, Greenwich, Connecticut, *Managing Director, Morgan Stanley International* (2016)
R. James O'Neil '83, M.B.A., Malvern, Pennsylvania, *Partner/Equity Portfolio Manager, Cooke & Bieler* (2017), Visiting Committee on Information Technology

Anthony Pasquariello '99, New York, New York, *Partner, Goldman Sachs and Company* (2017)

Michael Patsalos-Fox, Bernardsville, New Jersey, *Vice Chairman, McKinsey & Company* (2017)

Katherine S. Pope '71, Ph.D., Cumberland Foreside, Maine, *Anesthesiologist, Maine Medical Center* (2015), Visiting Committee on Psychology

Graham Powis '90, M.B.A., Greenwich, Connecticut, *Managing Director, Head of U.S. Equity Capital Markets, Lazard Freres & Co. LLC* (2017), Visiting Committee on Administrative Science

Elizabeth Raftery '98, Wilton, Connecticut, *Senior Manager of Contract Billing Services, Intelsat Corporation* (2017)

Glenn T. Rieger '80, Devon, Pennsylvania, *General Partner, NewSpring Capital* (2015), Visiting Committee on Philosophy

Peter Schmidt-Fellner '78, Darien, Connecticut, *Chief Investment Officer, NewStar Financial Inc.* (2016), Visiting Committee on Environmental Studies

Jennifer Alford Seeman '92, Weston, Massachusetts (2015), Visiting Committee on Dining Services

Maura A. Shaughnessy '83, M.B.A., Weston, Massachusetts, *Senior Vice President, Massachusetts Financial Services* (2015), Visiting Committee on Administrative Science

Jessica d'Ercole Stanton '92, Wellesley, Massachusetts (2017)

Sunil H. Thakor '99, M.B.A., Arlington, Virginia, *Senior Research Analyst/Senior Portfolio Manager, Sands Capital Management LLC* (2015)

Andrew A. Weber '97, London, England, *Self-Employed Proprietor* (2016)

Thomas A. Whidden '70, Essex, Connecticut, *President/CEO, North Sails Group Inc.* (2016)

Jacquelyn Lindsey Wynn '75, M.B.A., Springdale, Maryland, *Communications Consultant, Mitel* (2015), Visiting Committee on Education

Overseer Visiting Committees, 2012-13

Administrative Science (Sept. 23-25, 2012): Deborah Wathen Finn '74, chair; Graham Powis '90; Maura Shaughnessy '83; Kathleen Hevert, Babson College, consultant.

Education (Oct. 21-23, 2012): Laurie Haley Allen '87, chair; Jacquelyn Wynn '75; K. Ann Renninger, Swarthmore College, consultant; Lee Anne Bell, Barnard College, Columbia University, consultant.

Libraries (Jan. 13-15, 2013): Anne Szostak '72, chair; Mark Gildersleeve '77; Lee Van Orsdel, Grand Valley State University, consultant; Susan Barnes Whyte, Linfield College, consultant.

Dining Services (Feb. 10-12, 2013): Jan Magyar '71, chair; Jason Klein '97; Elizabeth Gabb, Dunkin' Brands, consultant; Julianne Britt, Bentley University, consultant.

Philosophy (Feb. 10-12, 2013): Beverly Madden '80, chair; Glenn Rieger '80; David Roochnik, Boston University, consultant; Charlotte Witt, University of New Hampshire, consultant.

Psychology (March 3-5, 2013): Alice Domar '80, chair; Katherine Pop '71; Paul Quinn, University of Delaware, consultant; Steven Stroessner, Barnard College, Columbia University, consultant.

Jewish Studies (April 14-16, 2013): Colleen Khoury '64, chair; Robert Compagna '76; Justin Cammy, Smith College, consultant; Frances Malino, Wellesley College, consultant.

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Shaquan A. Huntt '13, *member at large*

FACULTY

The faculty is arranged alphabetically. In parentheses are listed colleges and universities from which earned degrees have been received.

Hideko Abe, Ph.D. (Shikoku Christian College [Japan], Arizona State), 1993-1995; 2006-
Associate Professor of East Asian Studies

Anthony J. Adams, M.A. (Wesleyan, Toronto [Canada]) 2011-2013
Visiting Assistant Professor of English

William D. Adams, M.A. '00, Ph.D. (Colorado College, California at Santa Cruz), 2000-
President; Professor of Philosophy

Cagdas Agirdas, Ph.D. (Bogazici [Turkey], Central Michigan, Illinois), 2011-2013
Visiting Assistant Professor of Economics

Syed Tariq Ahmad, Ph.D. (Aligarh Muslim [India], PGIMER, Chandigarh [India], Notre Dame), 2009-
Assistant Professor of Biology

Debra A. Aitken, M.A. '01, B.A. (Plymouth State, Frostburg State), 1985-
Adjunct Professor of Athletics

Bobby Dean Allbritton, Ph.D. (Valdosta State, Syracuse, Stony Brook), 2011-
Assistant Professor of Spanish

David R. Angelini, Ph.D. (St. Mary's College of Maryland, Indiana), 2012-
Assistant Professor of Biology

Matthew E. Archibald, Ph.D. (Massachusetts at Amherst, Washington), 2010-
Assistant Professor of Sociology

Lisa Arellano, Ph.D. (Bryn Mawr, San Francisco State, Stanford), 2005-
Associate Professor of American Studies and Women's, Gender, and Sexuality Studies

Teresa J. Arendell, M.A. '99, Ph.D. (United States International, California at Berkeley), 1994-
Professor of Sociology

Martha Arterberry, M.A. '07, Ph.D. (Pomona, Minnesota), 2006-
Professor of Psychology

Joseph E. Atkins, Ph.D. (Vassar, Rochester), 2002-
Visiting Assistant Professor of Psychology; Coordinator of Multicultural Student Programs and Support

Sally A. Baker, A.B. (Duke), 1989-1998; 2002-
Faculty Member without Rank: Vice President and Secretary of the College

Debra A. Barbezat, M.A. '04, Ph.D. (Smith, Michigan), 1992-
Mitchell Family Professor of Economics

James C. Barrett, Ph.D. (California at Santa Cruz, Cornell), 2000-
Visiting Assistant Professor of Classics

Jared R. Beers '01 (Colby), 2006-
Adjunct Instructor in Athletics

James Behuniak Jr., Ph.D. (Southern Maine, Hawaii at Manoa), 2006-
Associate Professor of Philosophy

Kimberly A. Besio, M.A. '10, Ph.D. (Hawaii at Manoa, California at Berkeley), 1992-
Ziskind Professor of East Asian Studies

Catherine L. Besteman, M.A. '05, Ph.D. (Amherst, Arizona), 1993-
Francis F. Bartlett and Ruth K. Bartlett Professor of Anthropology

Catherine R. Bevier, Ph.D. (Indiana, Connecticut), 1999-
Associate Professor of Biology

Chandra D. Bhimull, Ph.D. (Kenyon, Michigan), 2008-
Assistant Professor of Anthropology and African-American Studies

Adrian Blevins, M.F.A. (Virginia Intermont, Hollins, Warren Wilson), 2004-
Associate Professor of English [Creative Writing]

Robert T. Bluhm Jr., M.A. '03, Ph.D. (New York University, Princeton, Columbia, Rockefeller), 1990-
Sunrise Professor of Physics

Nicholas Boekelheide, Ph.D. (Carleton, California Institute of Technology), 2013-
Assistant Professor of Chemistry

Maria Dolores Bollo-Panadero, Ph.D. (Seville [Spain], Michigan State), 2008-
Assistant Professor of Spanish

Todd M. Borgerding, Ph.D. (Mankato State, Minnesota, Michigan), 1997-1998, 2008-
Associate Professor of Music

Bradley R. Borthwick, M.A. (Guelph [Canada], Cornell), 2013-
Assistant Professor of Art

Jennifer Finney Boylan, M.A. '01, M.A. (Wesleyan, Johns Hopkins), 1988-
Professor of English

Sarah Braunstein, M.S.W. (Mount Holyoke, Iowa, Smith), 2012-2013
Visiting Assistant Professor of English [Creative Writing]

Otto K. Bretscher, Ph.D. (Zurich [Switzerland], Harvard, Zurich [Switzerland]), 1998-
Assistant Professor of Mathematics and Statistics

Lyn Mikel Brown, M.A. '05, Ed.D.*1 (Ottawa, Harvard), 1991-
Professor of Education

Denise A. Bruesewitz, Ph.D. (Winona State, Notre Dame), 2012-
Assistant Professor of Environmental Studies

Audrey Brunetaux, Ph.D. (Poitiers [France], Michigan State), 2008-
Assistant Professor of French

Cedric Gael Bryant, M.A. '05, Ph.D. (San Diego State, California at San Diego), 1988-
Lee Family Professor of English

Patricia A. Burdick, A.L.M. (Cedar Crest, Georgia Institute of Technology, Simmons, Harvard), 2001-
Faculty Member without Rank: Assistant Director for Special Collections, Colby Libraries

Kyle G. Burke '03, Ph.D. (Colby, Boston University), 2013-
Visiting Assistant Professor of Computer Science

Michael D. Burke, M.A. '09, M.F.A. (California at Berkeley, Massachusetts at Amherst), 1987-
Professor of English

Matthew R. Burkhart, Ph.D. (Colorado at Boulder, Montana), 2013-
Visiting Assistant Professor of English

Thomas K. Burton, B.A. (Hamilton), 1999-
Adjunct Associate Professor of Athletics; Assistant Director of Athletics, 2002-

Debra Campbell, M.A. '02, Ph.D. (Mt. Holyoke, St. Michael's [Canada], Boston University), January-June 1983, 1986-
Professor of Religious Studies

Gail Carlson, Ph.D. (St. Olaf, Wisconsin at Madison), 2004-
Assistant Professor of Environmental Studies

Travis J. Carter, Ph.D. (Chicago, Cornell), 2013-
Assistant Professor of Psychology

Joseph E. Clark, Ph.D. (British Columbia, Brown), 2012-2013
Visiting Assistant Professor of American Studies

Jennifer Coane, Ph.D. (Illinois State, Washington University [St. Louis]), 2008-
Assistant Professor of Psychology

Daniel H. Cohen '75, M.A. '00, Ph.D. (Colby, Indiana), 1983-
Professor of Philosophy

F. Russell Cole, M.A. '90, Ph.D. (Massachusetts, Illinois at Urbana), 1977-
Oak Professor of Biological Sciences

Susan Westerberg Cole, M.S. (Knox, Illinois), 1978-
Faculty Member without Rank: Assistant Director for Scholarly Resources and Services, Sciences Librarian

Cathy D. Collins, Ph.D. (Pitzer, Arizona, Kansas), 2011-
Clare Boothe Luce Assistant Professor of Biology

Lynne Conner, M.A. '13, Ph.D. (Oberlin, Stony Brook, Pittsburgh), 2008-
Professor of Theater and Dance

Charles Conover, M.A. '04, Ph.D. (Middlebury, Virginia), 1990-
William A. Rogers Professor of Physics

Rebecca R. Conry, Ph.D. (Eastern Washington, Washington), 2000-
Associate Professor of Chemistry

Megan L. Cook, Ph.D. (Michigan, New York University, Pennsylvania), 2013-
Assistant Professor of English

Tina Cormier, B.A. (New Brunswick), March 2011-
Adjunct Instructor in Athletics

Anthony J. Corrado Jr., M.A. '01, Ph.D. (Catholic University, Boston College), February 1986-
Professor of Government

Sharon L. Corwin, M.A. '06, Ph.D. (New College of Florida, California at Berkeley), 2003-
Professor of Art; Carolyn Muzzy Director of the Colby College Museum of Art and Chief Curator

Tracey A. Cote, M.S. (Northern Michigan, Wyoming), 1998-
Adjunct Associate Professor of Athletics; Associate Director of Athletics 2008-

Todd James Coulter, M.A. (St. Olaf, Colorado at Boulder), 2009-
Assistant Professor of Theater and Dance

Teresa E. Cowdrey, M.P.P.M. (Wesleyan, Yale), 2011-
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Guilain P. Denoeux, M.A. '03, Ph.D. (Grenoble [France], Georgetown, Princeton), 1990-
Professor of Government

Julie W. de Sherbinin, M.A. '07, Ph.D. (Amherst, Yale, Cornell), 1993-
Professor of Russian

Thomas A. Dexter, M.S. (SUNY at Cortland), 1989-
Adjunct Associate Professor of Athletics

Valérie M. Dionne, Ph.D. (Montreal [Canada], Princeton), 2007-
Assistant Professor of French

Sahan Tharanga Dissanayake, Ph.D. (Ohio Wesleyan, Illinois), 2012-
Assistant Professor of Economics

Justin J. Domingos, B.A. (Gettysburg), 2010-2013
Adjunct Instructor in Athletics

Michael R. Donihue '79, M.A. '07, Ph.D. (Colby, Michigan), 1989-
Professor of Economics; Associate Vice President for Academic Affairs and Associate Dean of Faculty, 2008-2010

Linwood C. Downs '83, M.A. (Colby, Columbia, Maine), 2003-
Assistant Professor of Administrative Science

Tasha L. Dunn, Ph.D. (Tulane, Tennessee, Knoxville), February 2014-
Assistant Professor of Geology

Finley C. Edwards, Ph.D. (Wheaton, Illinois at Urbana-Champaign), 2011-
Visiting Assistant Professor of Economics

Bevin L. Engman, M.A. '11, M.F.A. (William and Mary, Portland School of Art, Pennsylvania), 1996-
Professor of Art

Margaret D. Ericson, M.L.S. (Florida State), 1998-
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Andrea N. Eslick, Ph.D. (Iowa State, Duke), 2011-2013
Visiting Assistant Professor of Psychology

Ben W. Fallaw, Ph.D. (North Carolina at Chapel Hill, Chicago), 2000-
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Professor of Biology

David W. Findlay, M.A. '99, Ph.D. (Acadia [Canada], Purdue), 1985-
Pugh Family Professor of Economics

James R. Fleming, M.A. '02, Ph.D. (Pennsylvania State, Colorado State, Princeton), 1988-
Professor of Science, Technology, and Society

Rachel C. Flynn, M.A. (Indiana, Loyola, Chicago, Warren Wilson), 2013-
Visiting Assistant Professor of English

Patrice M. Franko, M.A. '00, Ph.D. (Bucknell, Notre Dame), 1986-
Grossman Professor of Economics

David M. Freidenreich, Ph.D. (Brandeis, Columbia), 2008-
Pulver Family Associate Professor of Jewish Studies

Luz B. Fuentes, Ph.D. (Pedagogica Nacional [Colombia], Carthage, Marquette, Illinois at Chicago), 2012-
Visiting Assistant Professor of Spanish

Richard B. Fuller, M.A., 2012-
Visiting Instructor in Mathematics and Statistics

Yuri Lily Funahashi, D.M.A. (Wisconsin at Madison, UCLA, Julliard), 2009-
Assistant Professor of Music

Emma García, Ph.D. (California at Santa Cruz, Michigan at Ann Arbor), 2005-
Assistant Professor of Spanish

Robert A. Gastaldo, M.A. '99, Ph.D. (Gettysburg, Southern Illinois), 1999-
Whipple-Coddington Professor of Geology

Cheryl Townsend Gilkes, M.A. '00, Ph.D. (Northeastern), 1987-
John D. and Catherine T. MacArthur Professor of Sociology and African-American Studies

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Faculty Member without Rank: Scholarly Resources and Services, Humanities Librarian

Melissa J. Glenn, Ph.D. (Memorial [Canada], Concordia [Canada]), 2007-
Assistant Professor of Psychology

Jill P. Gordon, M.A. '04, Ph.D. (Claremont McKenna, Brown, Texas at Austin), 1991-
Charles A. Dana Professor of Philosophy

Fernando Q. Gouvêa, M.A. '01, Ph.D. (São Paulo [Brazil], Harvard), 1991-
Carter Professor of Mathematics

Gary M. Green, M.F.A. (SUNY Empire State, Bard), 2007-
Assistant Professor of Art

Arthur D. Greenspan, M.A. '91, Ph.D. (Columbia, Indiana), 1978-
Professor of French and Italian

Paul G. Greenwood, M.A. '04, Ph.D. (Knox, Florida State), 1987-
Professor of Biology and Dr. Charles C. and Pamela W. Leighton Research Fellow; Associate Vice President for Academic Affairs and Associate Dean of Faculty, 2011-

Samara R. Gunter, Ph.D. (Chicago, Michigan), 2008-
Assistant Professor of Economics

Clement P. Guthro, Ed.D. (Manitoba [Canada], Point Loma Nazarene, Western Ontario [Canada], Nova Southeastern), 2003-
Faculty Member without Rank: Director of the Colby Libraries

Jonathan F. Hallstrom, Ph.D. (Oregon State, Iowa), 1984-
Associate Professor of Music

Britt E. Halvorson, Ph.D. (Albion, Michigan), 2010-2013
Visiting Assistant Professor of Anthropology

Lynn Hannum, Ph.D. (Bates, Yale), 2001-
Associate Professor of Biology

Paula Harrington, Ph.D. (Columbia, San Francisco State, California at Davis), 2008-2012
Director of Farnham Writers' Center, Visiting Assistant Professor of Writing 2013-

Natalie B. Harris, Ph.D. (Indiana), 1978-1980, 1982-1985, 1986-
Associate Professor of English

Peter B. Harris, M.A. '89, Ph.D. (Middlebury, Indiana), 1974-
Zacamy Professor of English

Walter F. Hatch, Ph.D. (Macalester, Washington), 2002-
Associate Professor of Government

Joseph P. Hayes, Ph.D. (St. Francis Xavier, Alberta), 2012-2013
Visiting Assistant Professor of Psychology

Brendan W. Hennessey, Ph.D. (Wisconsin at Madison, Notre Dame, UCLA), 2011-2013
Visiting Assistant Professor of Italian

Karen L. Henning, M.A. (Maryland, Adelphi), 2007-
Adjunct Instructor in Athletics

Jan É. Holly, M.A. '11, Ph.D. (New Mexico, Illinois), 1996-
Associate Professor of Mathematics and Statistics

Jennifer L. Holsten '90, M.Ed. (Colby, Springfield), 1995-
Adjunct Associate Professor of Athletics

M. Adam Howard, Ph.D. (Berea, Harvard, Cincinnati), 2003-2004, 2008-
Associate Professor of Education

Timothy P. Hubbard, Ph.D. (New Hampshire, Iowa), 2012-
Assistant Professor of Economics

Rachel M. Isaacs, B.A. (Wellesley), 2011-
Visiting Instructor in Jewish Studies and Jewish Chaplain

Russell R. Johnson, Ph.D. (Colorado College, Washington State), 1996-
Associate Professor of Biology

Paul R. Josephson, M.A. '08, Ph.D. (Antioch, Harvard, MIT), 2000-
Professor of History

Kristina Katori, M.Ed. (Nichols, Plymouth State), 2009-
Adjunct Instructor in Athletics

Jeffrey L. Katz, Ph.D. (Pennsylvania, Harvard), 2002-
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Sarah K. Keller, Ph.D. (St. Olaf, Western Michigan, Chicago), 2008-
Assistant Professor of English

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Elizabeth Ketner, Ph.D. (Georgia, Vermont, Minnesota), 2012-2013
Visiting Assistant Professor of English

Sakhi Khan, M.A. (Tufts, Harvard), 2001-
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D. Whitney King, M.A. '02, Ph.D. (St. Lawrence, Rhode Island), 1989-
Dr. Frank and Theodora Miselis Professor of Chemistry

Michael D. Kiser, M.A. (Wabash, Purdue), 2011-
Faculty Member without Rank: Vice President for Communications

Lori G. Kletzer, M.A. '10, Ph.D. (Vassar, California at Berkeley), 2010-
Vice President for Academic Affairs and Dean of Faculty; Professor of Economics, 2010-

Ann Marie Kloppenberg, M.F.A. (Middlebury, Ohio State), 2010-
Assistant Professor of Theater and Dance

Arne Koch, Ph.D. (Kenyon, Pennsylvania State, North Carolina at Chapel Hill), 2007-
Associate Professor of German

Ethan Alfred Kohn, Ph.D. (Skidmore, Dartmouth), 2010-2013
Visiting Assistant Professor of Biology

Mary Kosloski, Ph.D. (Suny, Cornell), 2012-2013
Visiting Assistant Professor of Geology

James C. Kriesel, Ph.D. (Macalester, Notre Dame), 2010-
Assistant Professor of Italian

Emily M. Kugler, Ph.D. (Scripps, California at San Diego), 2010-
Assistant Professor of English

Karen Kusiak '75, Ph.D. (Colby, Lesley, Maine), 1990-
Assistant Professor of Education

Elizabeth LaCouture, Ph.D. (Barnard, Columbia, Illinois at Urbana-Champaign), 2009-
Assistant Professor of History and East Asian Studies

Daniel R. LaFave, Ph.D. (Boston College, Duke), 2012-
Assistant Professor of Economics

Scott A. Lambert, Ph.D. (Maine at Farmington, Binghamton, Montana at Missoula), 2008-2013
Visiting Assistant Professor of Mathematics

Donghyun Lee, Ph.D. (Arizona State, Wisconsin, Oregon), 2012-2013
Visiting Assistant Professor of Economics

Elizabeth D. Leonard, M.A. '05, Ph.D. (College of New Rochelle, California at Riverside), 1992-
John J. and Cornelia V. Gibson Professor of History

Jennifer K. Le Zotte, M.A. (Florida), 2013-
Visiting Instructor in American Studies

Benjamin D. Lisle, Ph.D. (Carleton, Virginia, Texas at Austin), 2011-
Visiting Assistant Professor of American Studies

Leo Livshits, M.A. '08, Ph.D. (Waterloo [Canada], Toronto [Canada]), 1994-
Professor of Mathematics and Statistics

Lu Lu, M.S. (Zhejiang [China], Connecticut), 2013-
Instructor in Mathematics and Statistics

Meredith M. Lyons, M.F.A. (Mercyhurst, Smith), 2013-
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Blaise J. MacDonald, B.A. (Rochester Institution of Technology), 2012-
Adjunct Instructor of Athletics

G. Calvin Mackenzie, M.A. '86, Ph.D. (Bowdoin, Tufts, Harvard), 1978-
The Goldfarb Family Distinguished Professor of American Government; Vice President for Development and Alumni Relations, 1985-1988

Susan H. MacKenzie '80, Ph.D. (Colby, Michigan), 2010-
Visiting Assistant Professor of English

L. Sandy Maisel, M.A. '83, Ph.D. (Harvard, Columbia), 1971-
William R. Kenan Jr. Professor of Government; Director of the Colby in Washington Program, 1987-1995; Director, Goldfarb Center for Public Affairs and Civic Engagement, 2003-2012

Andreas Malmendier, Ph.D. (Bonn [Germany], MIT), 2010-
Assistant Professor of Mathematics

Carleen R. Mandolfo, Ph.D. (California State at San Francisco, Jesuit School of Theology, Emory), 2002-
Associate Professor of Religious Studies

Phyllis F. Mannocchi, M.A. '96, Ph.D. (Pennsylvania, Columbia), 1977-
Professor of English

Michael A. Marlais, M.A. '95, Ph.D. (St. Mary's of California, California at Hayward, Michigan), 1983-
James M. Gillespie Professor of Art

D. Benjamin Mathes, M.A. '03, Ph.D. (Middlebury, New Hampshire), 1990-
Professor of Mathematics

Harriett Matthews, M.A. '84, M.F.A. (Sullins Junior, Georgia), 1966-
Professor of Art

Bénédicte Mauguère, M.A. '09, Ph.D. (Angers [France], Paris-Sorbonne [France]), 2009-
Professor of French

Bruce A. Maxwell, M.A. '12, Ph.D. (Swarthmore, Cambridge [England], Carnegie Mellon), 2007-
Professor of Computer Science

Victoria L. Mayer, Ph.D. (Cornell, North Carolina at Chapel Hill, Wisconsin at Madison), 2007-

Assistant Professor of Sociology

Lindsay R. Mayka, M.A. (Carleton, Berkeley), 2013-
Instructor in Government

Tilar J. Mazzeo, Ph.D. (New Hampshire, Washington), 2004-
Clara C. Piper Associate Professor of English

Brenda McAleer, Ph.D. (St. Mary's, Vermont College, Walden), 2003-
Visiting Assistant Professor of Administrative Science

Loren E. McClenachan, Ph.D. (Middlebury, Oregon, Scripps Institution of Oceanography), February 2012-
Elizabeth and Lee Ainslie Assistant Professor of Environmental Studies

Jonathan H. McCoy, Ph.D. (Haverford, Maryland, Cornell), 2009-
Assistant Professor of Physics

Margaret T. McFadden, Ph.D. (Wells, Duke, Yale), 1996-
Associate Professor of American Studies, and Christian A. Johnson Associate Professor of Integrative Liberal Learning

Elizabeth McGrath, Ph.D. (Vassar, Hawaii), 2012-
Clare Boothe Luce Assistant Professor of Physics

Michael C. McGuire '89, M.L.S. (Colby, Syracuse), 2000-
Faculty Member without Rank: Systems and Emerging Technologies Librarian

Margaret P. Menchen, M.L.S. (Southampton [England], Maine), 1989-
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Jonathan Patrick Michaeles, B.A. (Bates), 2005-
Adjunct Assistant Professor of Athletics

Julie T. Millard, M.A. '04, Ph.D. (Amherst, Brown), 1991-
The Dr. Gerald and Myra Dorros Professor of Chemistry

Luis Millones, M.A. '12, Ph.D. (Pontificia Catolica [Peru], Stanford), 1998-
Charles A. Dana Professor of Spanish

David H. Mills '57, M.A. (Colby, Illinois, Harvard), 1980-1981, 1984-
Adjunct Assistant Professor of English for Speech and Debate

Mary Elizabeth Mills, M.A. '07, Ph.D. (Western Ontario [Canada], California at Berkeley), 1992-
Professor of Anthropology

Garry J. Mitchell, M.F.A. (Hawaii at Honolulu, Pratt Institute), 1996-1998; 1999-
Associate Professor of Art

Geoffrey C. Mitchell, Ph.D. (Furman, Arizona), 2013-
Visiting Assistant Professor of Biology

Lydia Moland, Ph.D. (Boston University), 2008-
Associate Professor of Philosophy

Elena I. Monastireva-Ansdell, Ph.D. (Piatigorsk State Institute of Foreign Languages [Russia], Iowa, Indiana), 2009-
Assistant Professor of Russian

Thomas J. Morrione '65, M.A. '85, Ph.D. (Colby, New Hampshire, Brigham Young), 1971-
Charles A. Dana Professor of Sociology

Aurore P. Mroz, Ph.D. (De Pau Et Des Pays De L'Adour [France], Iowa), 2012-
Assistant Professor of French

Barbara Kuczun Nelson '68, M.A. (Colby, Middlebury), 1978-
Associate Professor of Spanish

Randy A. Nelson, M.A. '90, Ph.D. (Northern Illinois, Illinois), 1987-
Douglas Professor of Economics and Finance

Robert E. Nelson, M.A. '96, Ph.D. (San Francisco State, Washington), 1982-
Professor of Geology

Mouhamédoul Amine Niang, Ph.D. (Gaston Berger [Senegal], East Tennessee State, Wisconsin at Madison), 2009-
Assistant Professor of French

Daniel W. Noyes '02, M.Ed. (Colby, St. Lawrence), 2007-
Adjunct Assistant Professor of Athletics

Steven R. Nuss, Ph.D. (Wisconsin at Madison, CUNY), February 1996-

Associate Professor of Music

Philip Nyhus, Ph.D. (St. Olaf, Wisconsin at Madison), 1999-2001; 2004-
Associate Professor of Environmental Studies

Liam O'Brien, Ph.D. (Colorado School of Mines, Harvard), 2003-
Associate Professor of Statistics

Jorge Olivares, M.A. '93, Ph.D. (Miami [Florida], Michigan), 1982-
Allen Family Professor of Latin American Literature

Kerill N. O'Neill, Ph.D. (Trinity College [Dublin, Ireland], Cornell), 1992-
Julian D. Taylor Associate Professor of Classics

Steven M. Opgenorth, M.A. (Winona State, Carroll), 2012-
Adjunct Instructor in Athletics

William E. Orchard, Ph.D. (Santa Clara, Chicago), 2010-2013
Assistant Professor of English

Laurie E. Osborne, M.A. '03, Ph.D. (Yale, Syracuse), 1990- NEH/Class of 1940
Distinguished Professor of Humanities, English

Adrianna M. Paliyenko, M.A. '04, Ph.D. (Boston University, North Carolina at Chapel Hill), 1989-
Charles A. Dana Professor of French

Candice B. Parent, B.S. (Maine at Farmington), 1998-
Adjunct Associate Professor of Athletics; Assistant Director of Athletics 2008-

Ronald F. Peck, Ph.D. (Linfield, Wisconsin), 2012-
Assistant Professor of Biology

Keith R. Peterson, Ph.D. (Kent State, Louisiana State, DePaul), 2008-
Assistant Professor of Philosophy

Raymond B. Phillips, Ph.D. (Pomona, California at Berkeley), 1984-
Assistant Professor of Biology; Director of Information Technology Services

Véronique B. Plesch, M.A. '08, Ph.D. (Swiss Maturite Federale [Switzerland], Geneva [Switzerland], Princeton), 1994-
Professor of Art

Dale Plummer, B.S. (Maine), 2007-
Adjunct Instructor in Athletics

Tamae K. Prindle, M.A. '98, Ph.D. (SUNY at Binghamton, Washington State, Cornell), 1985-
Oak Professor of East Asian Language and Literature [Japanese]

Darylyne M. Provost, M.L.S. (Trinity College, Maryland at College Park), 2007-
Faculty Member without Rank: Assistant Director for Systems, Web, and Emerging Technologies, Colby Libraries

Marilyn R. Pukkila, M.L.S. (Michigan, Aberystwyth [Wales], Columbia), March 1984-
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Tarja Raag, Ph.D. (Skidmore, Indiana), 1995-
Associate Professor of Psychology

Maple J. Razsa, Ph.D. (Vassar, Harvard), 2007-
Assistant Professor of Global Studies

Scott H. Reed, III, M.F.A. (South Florida, Rhode Island School of Design), February 1987-
Associate Professor of Art

Leonard S. Reich, M.A. '95, Ph.D. (Bucknell, Johns Hopkins), February 1986-
Professor of Administrative Science and Science, Technology, and Society

Allecia E. Reid McCarthy, Ph.D. (Connecticut, Arizona State), 2013-
Assistant Professor of Psychology

Joseph R. Reisert, Ph.D. (Princeton, Harvard), 1997-
Harriet S. Wiswell and George C. Wiswell Jr. Associate Professor of American Constitutional Law

Travis W. Reynolds, Ph.D. (Brown, Vermont, Washington), 2011-
Assistant Professor of Environmental Studies

Kevin P. Rice '96, Ph.D. (Colby, Wisconsin at Madison), 2005-
Associate Professor of Chemistry

Gianluca Rizzo, Ph.D. (UCLA), 2013-

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Kenneth A. Rodman, M.A. '98, Ph.D. (Brandeis, MIT), 1989-
William R. Cotter Distinguished Teaching Professor of Government

Hanna Roisman, M.A. '94, Ph.D. (Tel Aviv [Israel], Washington at Seattle), 1990-
Arnold Bernhard Professor in Arts and Humanities, Professor of Classics

Joseph Roisman, M.A. '94, Ph.D. (Tel Aviv [Israel], Washington at Seattle), 1990-
Professor of Classics

Anindyo Roy, Ph.D. (Delhi [India], Illinois, Texas at Arlington), 1995-
Associate Professor of English

Bruce F. Rueger, Ph.D. (Salem State, Colorado), 1984-
Visiting Assistant Professor of Geology, 2003-; Senior Teaching Associate

Ira Sadoff, M.A. '88, M.F.A. (Cornell, Oregon), 1977-
Arthur Jeremiah Roberts Professor of Literature

Elizabeth H. Sagaser, Ph.D. (Brown, Brandeis), 1994-
Associate Professor of English

Laura Saltz, Ph.D. (Chicago, Yale), 2001-
Associate Professor of American Studies

Saul Sandoval Perea, M.A. (Carleton [Canada], Claremont Graduate), 2011-2013
Visiting Instructor in Government

Betty G. Sasaki, Ph.D. (California at Santa Barbara, California at Berkeley), 1991-
Associate Professor of Spanish

Steven E. Saunders, M.A. '04, Ph.D. (Carnegie Mellon, Pittsburgh), 1990-
Charles A. Dana Professor of Music

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Audrey Wade Hittinger Katz and Sheldon Toby Katz Professor of History

Elizabeth N. Schiller, M.F.A. (Iowa), 1987-
Faculty Member without Rank: Registrar

James Carl Scott, Ph.D. (Macalester, California at Berkeley), 2009-
Assistant Professor of Statistics

Laura E. Seay, Ph.D. (Baylor, Yale, Texas at Austin), 2013-
Assistant Professor of Government

Mark R. Serdjenian '73, B.A. (Colby), 1982-
Adjunct Associate Professor of Athletics

Cyrus Shahan, Ph.D. (Virginia Tech, North Carolina at Chapel Hill), 2008-
Assistant Professor of German

Thomas W. Shattuck, M.A. '00, Ph.D. (Lake Forest, California at Berkeley), 1976-
Professor of Chemistry

Daniel M. Shea, M.A. '12, Ph.D. (SUNY at Oswego, West Florida, SUNY at Albany), 2012-
Director of Goldfarb Center for Public Affairs and Civic Engagement; Professor of Government

Tanya R. Sheehan, Ph.D. (Georgetown, Brown), 2013-
Associate Professor of Art

Erin S. Sheets, Ph.D. (Duke, Colorado at Boulder), 2010-
Assistant Professor of Psychology

Stacey E. Sheriff, Ph.D. (Dartmouth, Pennsylvania State) 2012-
Director of Colby Writing Program, Assistant Professor of Writing

David L. Simon, M.A. '88, Ph.D. (Boston University, London [U.K.]), 1981-
Ellerton and Edith Jetté Professor of Art

Nikky-Guninder K. Singh, M.A. '99, Ph.D. (Wellesley, Pennsylvania, Temple), 1986-
Crawford Family Professor of Religion

James R. Siodla, B.A. (California State), 2013-
Instructor in Economics

Dale J. Skrien, M.A. '97, Ph.D. (Saint Olaf, Washington), 1980-

Professor of Computer Science

Christopher J. Soto, Ph.D. (Harvard, California at Berkeley), January 2009-
Assistant Professor of Psychology

Debra A. Spark, M.A. '03, M.F.A. (Yale, Iowa), 1995-
Professor of English

Stewart M. Stokes, M.A. (Massachusetts at Amherst, Trinity), 2000-
Adjunct Associate Professor of Athletics

Judy L. Stone, M.A. '13, Ph.D. (Michigan, Yale, SUNY at Stony Brook), 1999-
Professor of Biology

Damien B. Strahorn '02, B.A. (Colby), 2011-
Adjunct Instructor in Athletics

Livia K. Stone, M.A. (Bryn Mawr, Washington), 2012-2013
Visiting Assistant Professor of Anthropology

David J. Strohl, Ph.D. (Texas, Virginia), 2012-
Assistant Professor of Anthropology

Katherine M. Stubbs, Ph.D. (Swarthmore, Duke), 1996-
Associate Professor of English

David B. Suchoff, M.A. '02, Ph.D. (California at Berkeley), 1993-
Professor of English

Justin E. Sukiennik '03, Ph.D. (Colby, Rochester), 2012-
Visiting Assistant Professor of Mathematics and Statistics

Walter A. Sullivan, Ph.D. (Concord, Virginia Tech, Wyoming), 2007-
Assistant Professor of Geology

Mark B. Tappan, M.A. '05, Ed.D.*1 (Oberlin, Ohio State, Harvard), 1991-
Professor of Education

Duncan A. Tate, M.A. '06, Ph.D. (Oxford [England]), 1992-
Professor of Physics

Winifred L. Tate, Ph.D. (Wesleyan, New York University), 2008-
Assistant Professor of Anthropology

Larissa J. Taylor, M.A. '05, Ph.D. (Harvard, Brown), 1994-
Professor of History

Scott A. Taylor, Ph.D. (Gordon, Pennsylvania State, California at Santa Barbara), 2008-2009, 2010-
Assistant Professor of Mathematics

Stephanie R. Taylor, Ph.D. (Gordon, California at Santa Barbara), 2008-
Clare Boothe Luce Assistant Professor of Computer Science

James S. Terhune, M.Ed. (Middlebury, Harvard), 2006-
Faculty Member without Rank: Vice President for Student Affairs and Dean of Students

Douglas C. Terp '84, M.B.A. (Colby, Thomas), 1987-
Vice President for Administration and Treasurer; Professor of Administrative Science

Dasan M. Thamattoor, M.A. '12, Ph.D. (Government Arts and Science College [India], Karnatak [India], Princeton), 1999-
Professor of Chemistry

Sonja M. Thomas, Ph.D. (Minnesota, New York University, Rutgers), 2012-
Assistant Professor of Women's, Gender, and Sexuality Studies

James C. Thurston, M.F.A. (Ohio Wesleyan, Northwestern), 1988-
Adjunct Associate Professor of Theater and Dance

Andrea R. Tilden, Ph.D. (Alma, Oklahoma), 1999-
The J. Warren Merrill Associate Professor of Biology

Daniel J. Tortora, Ph.D. (Washington and Lee, South Carolina, Duke), 2011-
Assistant Professor of History

John P. Turner, Ph.D. (Furman, Michigan at Ann Arbor), 2006-
Associate Professor of History

Julie N. Veilleux, B.A. (Maine), 2011-

Adjunct Instructor in Athletics

David M. Venditti, B.A. (Southern Maine), 2004-
Adjunct Assistant Professor of Athletics

Guillermo J. Vuletin, Ph.D. (National University of La Plata [Argentina], Maryland), 2007-2013
Assistant Professor of Economics

Andreas Waldkirch, Ph.D. (Tuebingen [Germany], Boston College), 2005-
Associate Professor of Economics

Doanh Wang, M.S. (SUNY at Binghamton, Wisconsin at Madison), 2007-
Adjunct Instructor in Athletics

James L.A. Webb Jr., M.A. '03, Ph.D. (Johns Hopkins), 1987-
Professor of History

Robert S. Weisbrot, M.A. '90, Ph.D. (Brandeis, Harvard), 1980-
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Ankeney Weitz, M.A. '12, Ph.D. (Cornell, Kansas), 1998-
Professor of Art

George Welch, Ph.D. (Cornell, Vermont, Alaska, Dartmouth), 1992-
Associate Professor of Mathematics and Statistics

Bretton Jessica White, Ph.D. (Amherst, Pennsylvania State, Wisconsin at Madison), 2011-
Assistant Professor of Spanish

W. Herbert Wilson Jr., M.A. '02, Ph.D. (North Carolina, Johns Hopkins), 1990-
Leslie Brainerd Arey Professor of Biosciences

Steven James Wurtzler, M.F.A. (Wisconsin at Madison, Iowa, Columbia), 2010-
Associate Professor of Cinema Studies

Edward H. Yeterian, M.A. '91, Ph.D. (Trinity, Connecticut), 1978-
Professor of Psychology; Vice President for Academic Affairs and Dean of Faculty, 1998-2010

Jennifer A. Yoder, M.A. '11, Ph.D. (Akron, Maryland), 1996-
Robert E. Diamond Professor of Government and Global Studies

Marcella K. Zalot, M.S. (Smith, Massachusetts at Amherst), 1997-
Faculty Member without Rank: Director of Athletics

Natalie K. Zelensky, Ph.D. (Northwestern), 2012-
Assistant Professor of Music

Hong Zhang, Ph.D. (Huazhong Normal [China], Wuhan [China], Columbia), 1995-1999, 2000-
Associate Professor of East Asian Studies

*1 Professors Lyn Mikel Brown and Mark Tappan share a joint appointment.

SABBATICALS AND LEAVES

Sabbatical Leaves

Semester I

Russell Johnson, Biology
Nikky Singh, Religious Studies
Darylyne Provost, Libraries

Semester II

David Mills, English

Full Year

Teresa Arendell, Sociology
Bevin Engman, Art
Adrian Blevins, English/Creative Writing
Robert Bluhm, Physics and Astronomy

James Fleming, Science, Technology, and Society
Jan Holly, Mathematics and Statistics
Jeffrey Katz, Chemistry
Anne Kloppenberg, Theater and Dance
Andreas Malmendier, Mathematics and Statistics
Harriet Matthews, Art
Bruce Maxwell, Computer Science
Margaret McFadden, American Studies
Barbara Nelson, Spanish
Philip Nyhus, Environmental Studies
Laurie Osborne, English
Adrianna Paliyenko, French and Italian
Keith Peterson, Philosophy
David Simon, Art
Andreas Waldkirch, Economics
Jennifer Yoder, Government/Global Studies

Other Scheduled Leaves

Full Year

Emily Kugler, English
Guillermo Vuletin, Economics

FELLOWS AND INTERNS

Fellows and Interns

Nasr Al-Wahaibi, 2013-2014
Language Assistant in Arabic

Bryce G. Beemer, M.A., 2013-
Mellon Postdoctoral Fellow in History

Maxime Bizet, 2013-2014
Language Assistant in French

Nicholas Bizier '01, Ph.D., 2012-2013
Postdoctoral Fellow in Chemistry

Hwisang Cho, Ph.D., 2012-2013
Faculty Fellow in East Asian Studies

Rick Elmore, Ph.D., 2013-
Faculty Fellow in Philosophy

Urmi F. Engineer, Ph.D., 2012-2013
Faculty Fellow in History

Elsa L. Fan, M.S., 2012-2013
Faculty Fellow in Global Studies

Risa Fujiwara, 2012-2014
Language Assistant in Japanese

Amanda Hamp, M.F.A., 2013-
Faculty Fellow in Theater and Dance

Mary Hart, M.F.A., 2013-
Faculty Fellow in Art (Studio)

Reuben Hudson, Ph.D., 2013-
Postdoctoral Fellow in Chemistry

Ryan M. Jones, M.A., 2012-2013
Faculty Fellow in Latin American Studies

Ricah Kunde, 2013-2014
Language Assistant in German

Paul S. Leary, Ph.D., 2012-2013

Faculty Fellow in Music

Aleksandra Lintcbakh, 2013-2014
Language Assistant in Russian

Hui-Ching Lu, 2013-2014
Language Assistant in Chinese

Marco Lucci, 2013-2014
Language Assistant in Italian

Karen Macke, M.F.A., 2013-
Faculty Fellow in Sociology

Joseph Martin, M.A., 2013-
Faculty Fellow in Science, Technology and Society

Yumiko Naito, M.A., 2013-
Faculty Fellow in East Asian Studies

Juan Manuel Portillo, Ph.D., 2013-
Faculty Fellow in Spanish

Marilyn J. Preston, M.A., 2012-2013
Faculty Fellow in Education

Yoshihiro Sato, Ph.D., 2009-
Faculty Fellow in Physics

Teresa Spezio, Ph.D., 2013-
Faculty Fellow in Environmental Studies

Ángel Augusto Marín Villanueva, 2013-2014
Language Assistant in Spanish

Peter B. Zazzali, M.A., 2012-2013
Faculty Fellow in Theater and Dance

ASSOCIATES AND ASSISTANTS

Associates and Assistants

Tina M. Beachy '93, M.S., 1999-
Senior Teaching Associate in Biology

Paul Berkner, D.O., 2013-
Research Scientist in Biology

Louis Bevier, B.S., 2013-14
Research Associate in Biology

Betsy Brown, Ph.D., 2008-
Research Scientist in Biology

Susan Childers, Ph.D., 2012-
Research Scientist in Biology

Lindsey W. Colby, M.S., 1986-
Senior Teaching Associate in Biology

Anthony Dalisio, M.S., 2012-
Teaching Assistant in Biology

John D. Ervin, M.A., 1989-
Technical Director, Theater and Dance

William Feero, M.D., Ph.D., 2013-
Research Scientist in Biology

Brenda L. Fekete, B.S., 1996-
Senior Teaching Associate in Chemistry

Scott L. Guay, M.A., 1993-
Senior Teaching Associate in Biology

Charles W. Jones, 1998-
Instrument Maintenance Technician

Joshua Kavaler, Ph.D., 2012
Research Scientist in Biology

Edmund Klinkerch, B.S., 2009-
Teaching Assistant in Chemistry

Ushari Ahmad Mahmud Khalil, Ph.D., 2013-
Research Associate in Anthropology

Amanda L. Kimball, B.A., 2011-
Animal Caretaker/Technician in Psychology

Tara Jean Kraus, B.S., 2012-
Teaching Assistant in Chemistry

Olivia Kunst, M.F.A., 2011-
Teaching Artist in Theater and Dance

Lisa M. Lessard, B.A., 2000-
Teaching Associate in Physics and Astronomy

Darla Linville, Ph.D., 2010-
Research Associate in Education

Meredith Lyons, M.F.A., 2013-
Teaching Artist in Theater and Dance

Lisa M. Miller, M.S., 1999-
Senior Teaching Associate in Chemistry

Lia Macpherson Morris, M.A., 2010-
Environmental Studies Coordinator

Jason Petrusis, Ph.D., 2013-2014
Research Associate in American Studies

Benjamin P. Neal, M.S., 2012-
Research Scientist in Environmental Studies

Bruce F. Rueger, Ph.D., 1984-
Visiting Assistant Professor of Geology, 2003- ; Senior Teaching Associate

Austin Segel, M.A., 1986-
Animal Care Technician in Biology

Sarah C. Staffiere, M.S., 2007-
Teaching Assistant in Biology

Lori Weinblatt, M.F.A., 2010-
Teaching Artist in Theater and Dance

APPLIED MUSIC ASSOCIATES

Applied Music Associates

Michael P. Albert, 2006-
Oboe

Messan Jordan Benissan, Master Drummer, 1999-

African Drumming

Richard Bishop, 1993-
Bass Guitar

Timothy A. Burris, Ph.D., February 2011-
Lute

Marilyn Buzy, B.A., 1999-2002; 2005-
Percussion

Angela Capps, M.M., 1995-
Bassoon

Carl Dimow, B.Mus., 1981-
Guitar

Nicholas E. Dosman, M.M., 2012-
Voice, Choral Director

D. Loren Fields, B.A., 2011-
French Horn

Sebastian Jerosch, 2000-
Trombone

Danielle Langord, B.A., 2009-
Harp

Mark Leighton, M.A., 1981-
Classical Guitar

Mark G. Macksoud, 2004-
Set Drumming

Gayle E. Maroon, B.Mus., 1995-
Piano

Nicole Rabata, M.M., 2007-
Flute

Stanislas Renard, D.M.A., 2013-
Violin, Viola, Orchestra Director

Paul Ross, Artist's Diploma, 1986-
Cello

Annabeth Rynders, 1996
Organ, Voice

Trond Saeverud, D.M.A., 2012-
Violin, Viola, Orchestra Conductor

Eric B. Thomas, B.Mus., 1998-
Clarinet, Saxophone, Director of Band Activities

Mark Tipton, M.M., 2009-
Trumpet

Joann Westin, February 1996-
Piano

FACULTY EMERITI

Donald B. Allen, M.A. '82, Ph.D., 1967-2007

Professor of Geology, Emeritus

Douglas N. Archibald, M.A. '73, Ph.D., 1973-2004

Roberts Professor of Literature, Emeritus; Vice President for Academic Affairs and Dean of Faculty, 1982-1988; Editor of Colby Quarterly, 1986-2004; Curator of the Healy Collection, 1993-1998

Tom C. Austin, B.S., 1986-2005

Adjunct Associate Professor of Physical Education and Athletics, Emeritus

Thomas R. Berger, M.A. '95, Ph.D., 1995-2006

Carter Professor of Mathematics, Emeritus

Clifford J. Berschneider, M.A. '78, M.A., 1949-1985

Professor of History, Emeritus

Patrick Brancaccio, M.A. '79, Ph.D., 1963-2003

Zacamy Professor of English, Emeritus

Murray F. Campbell, M.A. '92, Ph.D., 1980-2011

William A. Rogers Professor of Physics, Emeritus

George L. Coleman II, M.A., 1963-2006

Associate Professor of Geology and Registrar, Emeritus

William R. Cotter, M.A. '79, LL.D '00, J.D., 1979-2000

Professor of Government, Emeritus; President, Emeritus

Suellen Diaconoff, M.A. '00, Ph.D., 1986-2006

Professor of French, Emerita

Priscilla Doel, M.A. '93, M.A., 1965-2010

Professor of Portuguese and Spanish, Emerita

Sidney W. Farr '55, M.A. '95, M.B.A., 1960-1995

Professor, Emeritus; Alumni Secretary; Secretary of the Corporation

Charles A. Ferguson, Ph.D., 1967-1995

Associate Professor of French and Italian, Emeritus

Guy T. Filosof, M.A. '81, Ph.D., 1969-2001

Professor of French, Emeritus

David H. Firmage, M.A. '88, Ph.D., 1975-2010

Clara C. Piper Professor of Environmental Studies, Emeritus

Bruce E. Fowles, Ph.D., 1967-2003

Associate Professor of Biology, Emeritus

Henry A. Gemery, M.A. '77, Ph.D., 1961-2002

Pugh Family Professor of Economics, Emeritus

Adel Heinrich, A.Mus.D., 1964-1988

Associate Professor of Music, Emerita; Director of Chapel Music, Emerita

Jan S. Hogendorn, M.A. '76, Ph.D., 1963-2003

Grossman Professor of Economics, Emeritus

Susan McIlvaine Kenney, M.A. '86, Ph.D., 1968-2007

Dana Professor of Creative Writing, Emerita

Hubert C. Kueter, Ph.D., 1965-1997

Associate Professor of German, Emeritus

Charles R. Lakin, M.L.S., 1985-2007

Faculty Member without Rank: Reference Librarian, Emeritus

Eva Linfield, Ph.D., 1993-2008

Associate Professor of Music, Emerita

Thomas R.W. Longstaff, M.A. '84, Ph.D., 1969-2003
Crawford Family Professor of Religious Studies, Emeritus

Paul S. Machlin, M.A. '87, Ph.D., 1974-2012
Arnold Bernhard Professor of Arts and Humanities, Professor of Music, Emeritus

Marilyn S. Mavrinac, Ph.D., 1963-1995
Associate Professor of Education and Human Development, Emerita

Robert L. McArthur, M.A. '83, Ph.D., 1972-2007
Christian A. Johnson Professor of Integrative Liberal Learning, Emeritus; Dean of Admissions and Financial Aid, 1982-1985; Vice President for Academic Affairs and Dean of Faculty, 1988-1998

Sheila M. McCarthy, Ph.D., 1987-2009
Associate Professor of Russian, Emerita

Richard J. McGee, M.A. '86, M.S., 1967-1998
Professor of Physical Education, Emeritus; Director of Athletics

James R. McIntyre, Ph.D., 1976-2006
Associate Professor of German, Emeritus, Director of Career Services, 1982-1991

C. Abbott Meader, M.A. '96, M.F.A., 1983-1998
Professor of Art, Emeritus

James W. Meehan, M.A. '82, Ph.D., 1973-2012
Herbert E. Wadsworth Professor of Economics, Emeritus

Jane M. Moss, M.A. '90, Ph.D., 1979-2009
Robert E. Diamond Professor of Women's Studies, Professor of French, Emerita

Richard J. Moss, M.A. '90, Ph.D., 1978-2005
John J. and Cornelia V. Gibson Professor of History, Emeritus

Suanne Wilson Muehlner, M.L.S., 1981-2003
Faculty Member without Rank: Director of the Colby Libraries, Emerita

Bradford P. Mundy, M.A. '92, Ph.D., 1992-2003
Miselis Professor of Chemistry, Emeritus

Elisa M. Narin van Court, Ph.D., 1996-2011
Associate Professor of English, Emerita

Carl E. Nelson, M.Ed., 1967-1993
Adjunct Professor of Physical Education, Emeritus; Director of Health Services

Stanley A. Nicholson, M.A. '81, Ph.D., 1981-1990
Professor of Economics, Emeritus; Vice President for Administration, Emeritus

Patricia A. Onion, M.A. '00, Ph.D., 1974-2008
Professor of English, Emerita

Frances M. Parker, M.L.S., 1974-2002
Faculty Member without Rank: Assistant Director for Public Services, Library, Emerita

Harold R. Pestana, M.A. '85, Ph.D., 1959-1997
Professor of Geology, Emeritus

Thane S. Pittman, M.A. '04, Ph.D., 2004-2013
Professor of Psychology, Emeritus

Peter J. Ré, M.A. '65, M.A., 1951-1984
Professor of Music, Emeritus

Clifford E. Reid, M.A. '89, Ph.D., 1987-2009
Charles A. Dana Professor of Economics, Emeritus

Ursula Reidel-Schrewe, Ph.D., 1989-2008

Associate Professor of German, Emerita

Dorothy Swan Reuman, M.A., 1966-1992
Associate Professor of Music, Emerita

Nicholas L. Rohrman, M.A. '77, Ph.D., 1977-2005
Professor of Psychology, Emeritus

Yvonne R. Rowe '55, M.A. '79, M.B.A., 1958-1994
Professor of Administrative Science, Emerita

Jean Donovan Sanborn, M.A. '97, Ph.D., 1984-2005
Professor of English, Emerita

Richard C. Sewell, M.A., 1974-2003, 2004-2005
Adjunct Associate Professor of Theater and Dance, Emeritus; Director of Powder and Wig, Emeritus

Sonia Chalif Simon, Ph.D., 1982-1996
Associate Professor of Art, Emerita

Earl H. Smith, M.A. '95, B.A., 1962-2002
Professor; Dean of the College, Emeritus; College Historian

Wayne L. Smith, M.A. '83, Ph.D., 1967-2001
Professor of Chemistry, Emeritus

John R. Sweney, M.A. '82, Ph.D., 1967-2004
NEH/Class of 1940 Distinguished Teaching Professor of Humanities, English, Emeritus

Linda Tatelbaum, M.A. '04, Ph.D., 1982-2007
Professor of English, Emerita

Thomas H. Tietenberg, M.A. '84, Ph.D., 1977-2008
Mitchell Family Professor of Economics, Emeritus

Dace Weiss, M.A., 1981-2001
Assistant Professor of French, Emerita

Jonathan M. Weiss, M.A. '86, Ph.D., 1972-2008
NEH/Class of 1940 Distinguished Professor of Humanities, French, Emeritus

Christine M. Wentzel, M.A. '94, M.A., 1973-2011
Adjunct Professor of Theater and Dance, Emerita

James B. Wescott, M.A. '01, M.S., 1978-2003
Adjunct Professor of Physical Education and Athletics, Emeritus (deceased, May 27, 2014)

Richard L. Whitmore Jr., M.A. '90, M.Ed., 1970-2011
Adjunct Professor of Athletics, Emeritus; Director of Athletics, 1987-2002

Joylynn W.D. Wing, M.A. '04, Ph.D., 1988-2008
Professor of Theater and Dance, Emerita

Diane S. Winn, M.A. '89, Ph.D., 1974-2007
Professor of Psychology, Emerita

G. Dorin Zohner, Ph.D., 1963-1966; 1969-1996
Associate Professor of Psychology, Emeritus

NAMED FACULTY CHAIRS

Named Chairs, Their Donors, and Current Chairholders 2013-2014

The Elizabeth and Lee Ainslie Professorship in Environmental Studies (2010) by Elizabeth McKenna Ainslie '87 and Lee S. Ainslie

III. Loren McClenachan, environmental studies.

The Allen Family Chair in Latin American Literature (1993) by Leon and Karen Allen P '86. Jorge Olivares, Spanish.

The Leslie Brainerd Arey Chair in Biosciences (1993) by Mary E. Arey in memory of her husband, Colby Class of 1912. W. Herbert Wilson Jr., biology.

The Francis F. Bartlett and Ruth K. Bartlett Professorship (2003) through a bequest from Francis F. Bartlett Jr. '56. Catherine L. Besteman, anthropology.

The Arnold Bernhard Professorship in Arts and Humanities (1997) by A. Van Hoven Bernhard '57 in memory of his father. Hanna M. Roisman, classics.

The Carter Professorship in Mathematics and Computer Science (1985) by Clark H. Carter '40, Colby trustee, and William C. Carter '38 to recognize their family's 85-year relationship with the College. Fernando Q. Gouvêa, mathematics.

The William R. Cotter Distinguished Teaching Professorship (2000) by members of the Colby community. Kenneth A. Rodman, government.

The Crawford Family Chair in Religion (1994) by James B. Crawford '64, chair of the Colby Board of Trustees, and Linda Johnson Crawford '64 in memory of Colby Professor Gustave H. Todrank. Nikky-Guninder Kaur Singh, religious studies.

The Charles A. Dana Professorship Fund (1966) by the Charles A. Dana Foundation of New York City. Jill P. Gordon, philosophy; Luis Millones, Spanish; Thomas J. Morrione, sociology; Adrianna Paliyenko, French; and Steven Saunders, music.

The Robert E. Diamond Professorship (1993) by Robert E. Diamond Jr. '73, Colby trustee, in memory of his father. Jennifer A. Yoder, government and global studies.

The Dr. Gerald and Myra Dorros Chair in Life Sciences (1996) by Gerald and Myra Dorros P '93, '96, '98, '01. Julie T. Millard, chemistry.

The Douglas Chair in Investment and/or Finance (1994) by an anonymous alumnus. Randy A. Nelson, administrative science and economics.

The John J. and Cornelia V. Gibson Chair in History (1996) by John V. Gibson '59 in honor of his parents. Elizabeth D. Leonard, history.

The James M. Gillespie Chair in Art and American Studies (1990) through a bequest from Professor Emeritus James M. Gillespie. Michael Marlais, art.

The Goldfarb Family Distinguished Professorship in American Government (1991) by William H. Goldfarb '68, Colby trustee. G. Calvin Mackenzie, government.

The Grossman Professorship of Economics (1976) by Nissie Grossman '32 in honor of his parents, Reuben and Lizzie Grossman. Patrice M. Franko, economics.

The Ellerton and Edith Jetté Professorship in Art (1993) through a bequest from Edith M. Jetté, M.A. '62. Mrs. Jetté and her husband, Ellerton M. Jetté, LL.D. '55, were longtime friends of the College and supporters of the Colby College Museum of Art. David L. Simon, art.

The Christian A. Johnson Distinguished Teaching Professorship (1990) by the Christian A. Johnson Endeavor Foundation. Robert S. Weisbrot, history.

The Christian A. Johnson Professorship for Integrative Liberal Learning (1998) by the Christian A. Johnson Endeavor Foundation to launch a pioneer program in liberal arts education. Margaret T. McFadden, American studies.

The Audrey Wade Hittinger Katz and Sheldon Toby Katz Professorship for Distinguished Teaching (1994) by Audrey Hittinger Katz '57, Colby trustee, and Sheldon T. Katz. Raffael M. Scheck, history.

The William R. Kenan Jr. Professorship Fund (1979) by the William R. Kenan Jr. Charitable Trust. L. Sandy Maisel, government.

The Lee Family Chair in English (1993) by Robert S. Lee '51, Colby trustee, and his wife, Jean. Cedric Gael Bryant, English.

The Clare Boothe Luce Professorships (1988) through a bequest from Clare Boothe Luce. Cathy D. Collins, biology, and Stephanie R. Taylor, computer science.

The John D. and Catherine T. MacArthur Foundation Professorship (1981) by the John D. and Catherine T. MacArthur Foundation. Cheryl Townsend Gilkes, sociology and African-American studies.

The J. Warren Merrill Professorship in Chemistry and Natural History (1865) by J. Warren Merrill, Colby trustee. Andrea R. Tilden,

biology.

The Dr. Frank and Theodora Miselis Chair in Chemistry (1991) by Frank J. '43 and Theodora Miselis. D. Whitney King, chemistry.

The Mitchell Family Professorship in Economics (1993) by Edson V. Mitchell '75, Colby trustee. Debra A. Barbezat, economics.

The Carolyn Muzzy Museum of Art Chair (1992) by Colby friend Carolyn Muzzy, who had been involved with the museum since its inception. Sharon L. Corwin, museum.

The NEH/Class of 1940 Distinguished Professorship in Humanities (1990) by the National Endowment for the Humanities and alumni from the Class of 1940. Laurie E. Osborne, English

The Oak Chair in Biological Sciences (1993) by the Oak Foundation, the family foundation of the parents of a Colby alumnus. F. Russell Cole, biology.

The Oak Chair in East Asian Language and Literature (2000) by the Oak Foundation, the family foundation of the parents of a Colby alumnus. Tamae K. Prindle, East Asian studies.

The Paul D. and Marilyn Paganucci Chair in Italian Language and Literature (2000) by Paul D. Paganucci, M.A. '75, Colby trustee, and Marilyn Paganucci. Gianluca Rizzo, Italian.

The Clara C. Piper Professorship (1990) by Wilson C. Piper '39, Colby trustee, and Mary Piper in memory of Wilson Piper's mother, Clara Collins Piper, Class of 1914. Tilar J. Mazzeo, English.

The Pugh Family Professorship in Economics (1992) by Lawrence R. Pugh '56, chair of the Colby Board of Trustees, and Jean Van Curan Pugh '55. David W. Findlay, economics.

The Pulver Family Chair in Jewish Studies (1996) by David Pulver '63, Colby trustee, and Carol Pulver. David Freidenreich, religious studies.

The Arthur Jeremiah Roberts Professorship of Literature (1928) by the Board of Trustees as an expression of their regard for the late President Roberts, Colby's 13th president, who had taught English literature at Colby. Ira Sadoff, English.

The William A. Rogers Professorship in Physics (2000) by an anonymous donor. Charles Conover, physics.

The Sunrise Chair (2000) by anonymous parents of Colby alumni. Robert T. Bluhm Jr., physics.

The Julian D. Taylor Associate Professorship in Classics (1956) by a bequest from Professor Julian D. Taylor, who taught Latin and Greek at Colby from 1868 to 1931. Kerill N. O'Neill, classics.

The Herbert E. Wadsworth Professorship in Economics (1940) by Herbert E. Wadsworth, Class of 1892, Colby trustee. Vacant.

The Whipple-Coddington Chair in Geology (1994) by Jane Whipple Coddington '55, Colby trustee, and F. Chandler Coddington Jr. Robert A. Gastaldo, geology.

The Harriet S. and George C. Wiswell Jr. Chair in American Constitutional Law (2000) by Harriet Sargent Wiswell '48 and George C. Wiswell Jr. '50 Joseph R. Reisert, government.

The Zacamy Chair in English (1993) by John R. Zacamy Jr. '71, Colby trustee. Peter B. Harris, English.

The Ziskind Professorship of East Asian Studies (1963) by the Jacob Ziskind Trust. Kimberly A. Besio, East Asian studies.

ADMINISTRATION

President, William D. Adams, M.A. '00, Ph.D., 2000-

Administrative Assistant to the President, Jacqueline J. Tiner, 1992-

College Historian, Earl H. Smith, M.A. '95, B.A., 1962-

Carolyn Muzzy Director and Chief Curator of the Museum of Art, Sharon L. Corwin, Ph.D., 2003-

Ann Lunder Leland Fellow, Raimey Mize, M.A., 2013-

Katz Curator, Diana K. Tuite, M.A., 2013-

Langlais Curator for Special Projects, Hannah W. Blunt, B.A., 2010-

Lunder Curator of American Art, Elizabeth J. Finch, Ph.D., 2008-
Mirken Coordinator of Education and Public Programs, Matthew R. Timme, M.A., 2011-
Mirken Curator of Education, Lauren K. Lessing, Ph.D., 2007-
Museum of Art Registrar, Lorraine DeLaney, M.A., 2013
Associate Director, Patricia King, B.A., 2001-
Assistant Director for Operations, Gregory J. Williams, 1990-

Vice President for Academic Affairs and Dean of Faculty, Lori G. Kletzer, Ph.D., 2010-

Associate Vice President for Academic Affairs and Associate Dean of Faculty, Paul G. Greenwood, Ph.D., 1987 -
Assistant Dean of Faculty for Academic Development, James M. Sloat, Ph.D., 2012-
Director of Off-Campus Study, Nancy Downey, Ph.D., 2007-
Associate Director of Off-Campus Study, Juliette Monet, M.A., 2007-
Director of Colby in Dijon, Jonathan M. Weiss, M.A. '86, Ph.D., 1972-
Registrar, Elizabeth N. Schiller, M.F.A., 1987-
Associate Registrar, Valerie M. Sirois, M.S., 2008-
Director of Institutional Research, William P. Wilson, Ph.D., 2007-
Director of the Colby Writing Program, Stacey E. Sheriff, Ph.D., 2012-
Director of the Farnham Writers' Center, Paula Harrington, Ph.D., 2009-
Colby Writing Program Coordinator, Alexander J. Champoux, B.A., 2012-

Director of the Colby Libraries, Clement P. Guthro, Ed.D., 2003-
Assistant Director for Technical Services, Toni D. Katz, M.S., 1983-
Head of Acquisitions, Claire Prontnicki, B.A., 1991-
Assistant Director of Library Services, Robert D. Heath, B.A., 1991-
Assistant Director for Public Services, Margaret P. Menchen, M.L.S., 1989-
Systems Coordinator, Eileen F. Richards, 1988-
Art and Music Librarian, Margaret D. Ericson, M.L.S., 1998-
Scholarly Resources and Services Librarian, Marilyn R. Pukkila, M.S.L.S., 1984-
Systems and Emerging Technologies Librarian, Michael C. McGuire '89, M.L.S., 2000-
Digital Production Coordinator, Lawrence W. Brown, M.A., 1994-
Assistant Director for Systems, Web, and Emerging Technologies, Darylne Provost, M.L.S., 2007-
Assistant Director for Scholarly Resources and Services, Sciences Librarian, Susan W. Cole, M.S., 1978-
Electronic Resources Librarian, Karen J. Gillum '76, M.A., 1994-
Assistant Director for Digital Collections, Martin F. Kelly, M.L.S., 2006-
Assistant Director of Special Collections, Patricia A. Burdick, A.L.M., 1998-
Visual Resources Curator, Margaret E. Libby '81, 1986-

Director of Athletics, Marcella K. Zalot, M.S., 1997-
Assistant Director of Athletics and Sports Information Director, William C. Sodoma, B.S., 2002-
Associate Director of Athletics, Tracey A. Cote., M.S. 1997-,
Associate Director of Athletics, Thomas K. Burton. B.A. 1999-
Strength and Conditioning Coordinator, Dawn Strout, M.S., 2011-

Director of the Oak Human Rights Institute, Kenneth A. Rodman, Ph.D., 2012-

Director of the Goldfarb Center for Public Affairs and Civic Engagement, Daniel M. Shea, Ph.D., 2012-
Associate Director of the Goldfarb Center for Community Outreach and Programming, Alice D. Elliott, B.S., 2004-
Assistant Director of the Goldfarb Center, Amanda Kitchen, M.S., 2013-
Coordinator, Colby Cares About Kids Program, Lori Morin, M.S., 2009-

Vice President for Administration and Treasurer, Douglas C. Terp '84, M.B.A., 1987-

Director of Human Resources, Mark Crosby, M.Ed., 2007-
Associate Director of Human Resources, Richard C. Nale, J.D., 1994-
Assistant Director of Human Resources, Vanria DeMay, J.D., 2013-
Human Resources Analyst, Jane Robertson, B.A., 1990-

Assistant Vice President for Finance, Scott H. Jones, M.B.A., 2005-
Associate Director of Financial Planning, Nora I. Dore, M.B.A., 2001-
Director of the Bookstore, Barbara C. Shutt, A.B., 1994-
Director of Special Programs, Jacques R. Moore, M.A., 1999-
Scheduling and Facilities Manager, Karen R. Farrar Ledger, B.S., 1981-

Associate Vice President and Chief Investment Officer, Hugh J. O'Donnell, A.B., 2012-
Investment Manager, Harris S. Sibunruang, M.B.A., 2013-
Associate Vice President for Investments, Douglas E. Reinhardt '71, M.B.A., 1972-
Assistant Director of Investments, Pamela Leo, 1981-

Controller, Ruben L. Rivera, B.S., 1994-

Director of Administrative Financial Services, Scott D. Smith '88, M.B.A., 1993-
Assistant Director of Administrative Financial Services, Kelly J. Pinney-Michaud, B.A., 1999-

Director of Student Financial Services, Cynthia W. Wells '83, 1983-
Associate Director of Student Financial Services, Lisa M. Fairbanks, A.S., 1990-
Assistant Director of Student Financial Services, Jill A. Pierce, B.S. 2011-
Student Financial Services Assistant, Theresa Hunnewell, A.S., 1976-
Student Financial Services Assistant, Angel L. Spencer, 2000-
ColbyCard Manager, William U. Pottle, 1980-

Director of Security, Peter S. Chenevert, 1980-1988, 1997-
Associate Director of Security/Systems Manager, Jeffrey A. Coombs, A.S., 2000-
Assistant Director of Security/Museum Security Manager, Michael P. Benecke, A.S., 2013-

Director of Information Technology Services, Raymond B. Phillips, Ph.D., 1984-
Director of Academic Information Technology Services, L. Jason Parkhill, B.A., 2007-
Quantitative and GIS Analysis Specialist, Manuel Gimond, Ph.D., 2007-
Scientific Computing Administrator, Randall H. Downer, B.A., 2007-
Technology Education Specialist, Adam C. Nielsen, B.S., 2005-
Instructional Technologist, Erin L. Connor, M.Ed., 2013-
Instructional Media Specialist, Qiuli Wang, M.A., 2009-
Director of Administrative Information Technology Services, Catherine L. Langlais, B.A., 1996-
Senior Systems Analyst, Paul R. Meyer, M.S., 1999-
Information Systems Analyst, Ian Hagelin, B.S. 2010-
Information Systems Analyst, Elizabeth M. Rhinelanders '93, 2006-
Web Technology Specialist, Keith A. McGlaufflin, B.S., 1989-
Windows/Web Server Administrator, Scott K. Twitchell, A.S., 2006-
Director of Personal Computer Support Services, Rurik Spence, A.S., 1988-
User Services Consultant and Supervisor of Student Computer Services, Paula A. Lemar, 1983-
Windows/Macintosh Technical Consultant, Marc A. Cote, B.S., 2006-
Director of Network Services, David W. Cooley, M.Div., 1978-
Network Administrator, Brian Zemrak, 1998-
Assistant Director for Data Center Operations, Scott E. Workman, B.A., 2013-
Senior Server Administrator, Sean P. Boyd, B.A., 2008-
Senior Server Administrator, Jeff A. Earickson, Ph.D., 1995-
Director of Information Security, Daniel S. Siff, M.S., 2002-
Director of Media Resources, Kenneth T. Gagnon, B.A., 1981-
Sound and Video Services Coordinator, David C. Pinkham Jr., B.S., 2003-

Director of Dining Services, Firouz Khaksar, B.S., 2010-
Associate Director of Dining Services, Joseph Klaus, A.A.S., 1998-
Executive Chef, Roberts Dining Hall, Wendy A. Benney, 2000-
Assistant Manager, Roberts Dining Hall, Keith R. Cole, 2006-
Executive Chef, Dana Dining Hall, Mikael Andersson, 2013-
Manager, Dana Dining Hall, Kathleen Lochiatto, 2013-
Manager, Dana Dining Hall, Michael Ingalls, 2006-
Manager, Foss Dining Hall, Terrance Landry, 1997-
Retail Manager, Spa, David A. Hartley, B.S., 2007-
Catering Manager, Heather Vigue, B.A., 1997-
Assistant Catering Manager, Tony Barrows, B.A., 2007-

Director of Equal Employment Opportunity, Maria C. Clukey, M.S., 1999-

Sustainability Coordinator, Kevin S. Bright, M.A., 2013-

Director of Physical Plant, Patricia C. Whitney, B.S., 2000-
Associate Director, Gordon E. Cheesman, B.S., 1987-
Assistant Director for Operations and Maintenance, Paul E. Libby, M.B.A., 1994-
Supervisor, Building Trades, Perry Richardson, 2010-
Supervisor, Mechanical and Electrical Services, Anthony J. Tuell, B.S., 2006-
Assistant Director of Capital Planning and Construction, Kelly E. Doran, M.A., 2008-
Environmental Program Manager, Dale M. DeBlois, B.S., 1998-
Assistant Director of Grounds and Custodial Services, Donald J. Zavadil, B.A. 2007-
Custodial Supervisor, David Grazulis, A.S., 2007-
Custodial Supervisor, Keith Rankin, 2010-
Grounds Supervisor, Charles McCann, B.S., 2011-
Project Manager, Roger L. Scott, B.S., 2012-

Vice President for Development and Alumni Relations, vacant

Director of Capital Gifts and Gift Planning, Nancy M. Fox, M.B.A., 1996-2004, 2005-
Development Officer, Nathaniel Chamberlin '03, 2010-
Development Officer, Kim K. Krueger, B.A., 1991-96, 2007-
Development Officer, Sandra S. Anthoine, B.A., 2011-
Development Officer, Edgar B. Hatrick, J.D., 2013-
Senior Philanthropic Advisor, Susan F. Cook '75, M.B.A., 1981-
Associate Director of Gift Planning, Elizabeth A. Armstrong, J.D., 2012-

Director of the Colby Fund, Carolyn G. Kimberlin, B.A., 2003-
Assistant Director of the Colby Fund, Emiko L. Boezeman '11, 2011 -
Associate Director of the Colby Fund, Elizabeth S. Danner, B.A., 2006-
Assistant Director of the Colby Fund, Ashley Whittemore, B.A., 2012-
Assistant Director of the Colby Fund, Benjamin T. Lord, B.A., 2012-
Associate Director of the Colby Fund, Matthew R. Mullen, B.S., 2011-

Director of Corporate, Foundation, and Government Relations, Marcella J. Bernard, B.A., 2006-
Assistant Director of Corporate, Foundation, and Government Relations, Seven S. Grenier '94, M.A., 1985-

Director of Development Operations and Analysis, Monica M. Keith, M.B.A., 2012-
Senior Associate Director of Development and Alumni Relations Information Services, Lisa L. Burton, B.A., 2007-
Senior Programmer/Analyst, R. Neal Patterson, B.A., 1995-
Senior Web Developer, Seth J. Mercier, B.S., 2005-
Director of Development Research, Julie Macksoud, B.A., 1993-
Assistant Director of Development Research, Deborah J. Ouellette, B.S., 1988-
Associate Director of Data Services, Ann O. Hurlburt, B.S., 1980-
Development and Alumni Relations Communications Coordinator, Jlynn J. Frazier, M.A. 2013-

Director of Alumni Relations, Margaret Bernier Boyd '81, 1997-
Assistant Director of Alumni Relations, Laura D. Meader, B.A., 2001-
Assistant Director of Alumni Relations, Karin R. Weston, B.A., 1993-
Assistant Director of Alumni Relations, Meghan S. Hayward, B.A., 2012-
Director of Donor Relations and Philanthropic Events, Lisa B. Tessler, Ed.M. 2004-
Associate Director of Donor Relations for Stewardship, Christine Bicknell Marden, B.A., 2010-

Vice President and Secretary of the Corporation, Sally A. Baker, A.B., 1989-98, 2002-

Vice President for Communications, Michael D. Kiser, M.A., 2011-

College Editor, Stephen B. Collins '74, 1993-
Managing Editor/Associate Director of Communications, Gerard E. Boyle '78, 1999-
Director of Communications, Ruth N. Jacobs, M.S., 2004-
Director of Creative Services, Barbara E. Walls, B.A., 2013-
Senior Graphic Designer, Robert P. Hernandez, M.A., 2007-
Web/New Media Communications Manager, Robert C. Clockedile, B.A., 2004-
Web Manager/Senior Web Developer, Ben R. Greeley, B.S., 2007-
Communications Web/Multimedia Designer, Arnold H. Norris, B.F.A., 2012-
Associate Director of Communications, Kristina M. Cannon, B.S., 2012-
Associate Director of Communications, Jacob E. McCarthy, M.A., 2012-

Vice President and Dean of Admissions and Financial Aid, Teresa E. Cowdrey, M.P.P.M, 2011-

Director of Admissions, Thomas Stephens Thomas IV, M.A.L.S., 1998-
Administrative Assistant to the Director of Admissions, Penny Ann Spear, A.S., 1973-
Associate Dean of Admissions and Financial Aid, Sammie Robinson, M.A., 2004-
Associate Dean of Admissions and Financial Aid, Nancy R. Morrione '65, M.Ed., 1982-
Associate Dean of Admissions and Financial Aid, David S. Jones, M.B.A., 1987-
Associate Dean of Admissions and Financial Aid, Hung N. Bui '94, M.S.I.A. 1994-97, 2010-
Associate Dean of Admissions and Financial Aid, Sandra I. Sohne-Johnston, M.A., 2001-04, 2006-
Associate Director of Admissions and Coordinator of Multicultural Enrollment, Denise R. Walden, M.A., 2003-
Associate Director of Admissions and Financial Aid, Jamie W. Brewster '00, 2000-
Associate Director of Admissions and Financial Aid, Karen C. Ford, M.Ed., 1998-
Assistant Director of Admissions and Financial Aid, William Keton Jack, B.A., 2008-
Assistant Director of Admissions and Financial Aid, Randi L. Arsenault, B.A., 2010-
Assistant Director of Admissions and Financial Aid, Samuel E. Freccia, B.A., 2012-
Assistant Director of Admissions and Financial Aid, Katheryn C. McAuliff, B.A., 2012-
Assistant Director of New Student Aid, Kathy A. Stevens, 2006-

Vice President for Student Affairs and Dean of Students, James S. Terhune, M.Ed., 2006-

Assistant Vice President and Senior Associate Dean of Students, Barbara E. Moore, M.A., 2007-
Senior Associate Dean of Students, Paul E. Johnston, B.A., 1982-
Associate Dean of Students, Susan M. McDougal, B.A., 1996-
Associate Dean of Students/Director of the Pugh Center, Tashia L. Bradley, Ph.D., 2011-
Associate Director of the Pugh Center/Director of the Gender and Sexuality Program, Emily E. Schusterbauer, M.A., 2013-
Assistant Dean of Students/Coordinator of Multicultural Student Programs and Support, Joseph E. Atkins, Ph.D., 2002-
Associate Dean of Students and Director of Campus Life, Jed W. Wartman, M.Ed., 2010-
Associate Director of Campus Life for Residential Education and Living, Kimberly A. Kenniston, M.A. 2008-
Assistant Director of Campus Life for Campus Programs and Leadership Development, Samuel R. Helm '12, 2012-
Dean of Religious and Spiritual Life, Kurt D. Nelson, M.Div., 2012-

Director of the Career Center, Alisa M. Johnson, M.S., 2013-
Associate Director of the Career Center, Cate T. Ashton '80, M.A., 1987-
Associate Director of Employer Relations, Erica L. Humphrey, M.B.A., M.Ed., 2007-

Medical Director, Paul D. Berkner, D.O., 2004-
Physician's Assistant, Holly G. Weidner, M.S. 2011-
Nurse Practitioner, Lydia Bolduc-Marden, M.S.W., N.P., 1992-
Nurse Practitioner, Jennifer G. Riddle, M.S., 2011-
Coordinator of Alcohol and Drug Programs, Katherine L. Sawyer, M.A., 2012-
Head Athletic Trainer, Timothy S. Weston, B.S., 1992-
Staff Athletic Trainer, Amanda M. Meyer, M.S., 2011-
Staff Athletic Trainer, Christopher O'Toole, B.A., 2009-
Staff Athletic Trainer, Paul M. Rucci, M.S., 2012-

Director of Counseling Services, Eric S. Johnson, Ph.D., 2013-
Psychological Counselor, Ozgur Dicle Turkoglu, Ph.D., 2012-
Psychological Counselor, Jing Ye, M.A., 2000-

ENROLLMENT BY STATES AND COUNTRIES

Forty-three U.S. states plus the District of Columbia and 78 countries outside of the United States were represented in the 2012-2013 student body.

2012-2013 Enrollment: Men 845, Women 1,018, Total 1,863

U.S. States	Countries
Alabama	Afghanistan
Alaska	Albania
Arizona	Australia
Arkansas	Austria
California	Bangladesh
Colorado	Belgium
Connecticut	Belize
District of Columbia	Bermuda
Delaware	Bhutan
Florida	Bolivia
Georgia	Bosnia and Herzegovina
Hawaii	Brazil
Idaho	Bulgaria
Illinois	Cambodia
Indiana	Cameroon
Kansas	Canada
Kentucky	Chile
Louisiana	China
Maine	Czech Republic
Maryland	Denmark
Massachusetts	Dominican Republic
	Pakistan
	Peru
	Philippines
	Poland
	Romania
	Russia
	Rwanda
	Saudi Arabia
	Senegal
	Serbia
	Sierra Leone
	Singapore
	Slovakia
	South Africa
	Spain
	Sri Lanka
	Swaziland
	Sweden
	Switzerland
	Taiwan
	Thailand

Michigan	Estonia	Trinidad and Tobago
Minnesota	Ethiopia	Turkey
Missouri	Finland	Uganda
Nebraska	France	Venezuela
Nevada	Germany	Vietnam
New Hampshire	Ghana	Zimbabwe
New Jersey	Georgia	
New Mexico	Great Britain	
New York	Greece	
North Carolina	Guatemala	
Ohio	Haiti	
Oregon	Hong Kong	
Pennsylvania	India	
Rhode Island	Ireland	
South Carolina	Iran	
Tennessee	Italy	
Texas	Japan	
Utah	Jordan	
Vermont	Kazakhstan	
Virginia	Kenya	
Washington	Korea, Republic of	
Wisconsin	Lebanon	
Wyoming	Mexico	
	Micronesia	
	Mongolia	
	Nepal	
	Netherlands	
	New Zealand	
	Nicaragua	
	Nigeria	

ACCREDITATIONS AND MEMBERSHIPS

Accredited by:

- New England Association of Schools & Colleges
- Maine Department of Education
- American Chemical Society
- Accreditation Council for Continuing Medical Education

Member of:

- The College Board
- College Scholarship Service
- American Council on Education
- American Association of Colleges and Universities
- International Institute of Education
- Council of Independent Colleges
- National Association of Independent Colleges and Universities
- New England Board of Higher Education
- Maine Independent Colleges Association
- Council on Undergraduate Research
- National Collegiate Athletic Association
- New England Small College Athletic Conference
- Council for the Advancement and Support of Education
- American Library Association
- New England Library Network
- National Council for Science and the Environment
- New England Consortium on Assessment and Student Learning
- American Association of University Women
- American Association of University Professors
- National Association for College Admission Counseling
- Council of International Schools

- Association of Collegiate Conference and Event Directors International
- National Association of College and University Business Officers
- College and University Professional Association–Human Resources

Chapter of Phi Beta Kappa (founded in 1895)

Museum of Art accredited by the American Association of Museums

Health Center accredited by Accreditation Association for Ambulatory Health Care

COLBY PRESIDENTS

1822-1833	Jeremiah Chaplin
1833-1836	Rufus Babcock
1836-1839	Robert Everett Pattison
1841-1843	Eliphaz Fay
1843-1853	David Newton Sheldon
1854-1857	Robert Everett Pattison
1857-1873	James Tift Champlin
1873-1882	Henry Ephraim Robins
1882-1889	George Dana Boardman Pepper
1889-1892	Albion Woodbury Small
1892-1895	Beniah Longley Whitman
1896-1901	Nathaniel Butler Jr.
1901-1908	Charles Lincoln White
1908-1927	Arthur Jeremiah Roberts
1929-1942	Franklin Winslow Johnson
1942-1960	Julius Seelye Bixler
1960-1979	Robert Edward Lee Strider II
1979-2000	William R. Cotter
2000-present	William D. Adams

DEGREES AND HONORS AWARDED AT COMMENCEMENT

As Class of 2011

Carson Dey Phillips-Spotts *Atlanta, Ga.*

As Class of 2012

Wyke Norbert Bazirake *Kampala, Uganda*
 Shayne Anthony Begin *Hillsboro, N.H.*
 Kevin Gerard Mahoney *Upper Montclair, N.J.*
 Sean Kathleen Michael *Andover, N.J.*
 Connor Daniel Walsh *Westwood, Mass.*
 Harold Hao Yang *Hanover, N.H.*

As Class of 2013

Thomas Dabney Abe *Acton, Mass.*
 Daniel Julius Abrams *Merion Station, Pa.*
 Archibald Clark Crawford Adams *Madison, Conn.*
 Patrick Ryan Adams *Greenville, S.C.*
 Rebecca Sophie Aliber *Sharon, Mass.*
 Lindsay Rose Alston *Kenilworth, Ill.*

Deborah Ann Amato *Sharon, Mass.*
 Philip Macdonald Amato *North Pomfret, Vt.*
 Chelsea Anne Ammons *Centennial, Colo.*
 Benjamin Sebastian Amy *Redding, Conn.*
 Cody Salathe Anderson *South Sutton, N.H.*
 Petya Vaneva Andreeva *Burgas, Bulgaria*
 Trevor DeWalt Anson *Plymouth, Minn.*
 Eliza Hannah Appleton *Cambridge, Mass.*
 John David Arnold *Henniker, N.H.*
 Emme King Arnzen *Andover, Mass.*
 Carla Bess Aronsohn *Miami, Fla.*
 Ahmed Asi *Karachi, Pakistan*
 Nicholas Scott Aubin *West Simsbury, Conn.*
 Titobiloluwa Opeyemi Awe *Lagos, Nigeria*

Lydia Jo Ball *Havertown, Pa.*
 Nicholas Peteris Balsbaugh *Gloucester, Mass.*
 Justin Taylor Banks *Brooklyn, N.Y.*
 Emily Catherine McGrory Barr *Wellesley, Mass.*
 Hilary Davenport Barr *Ridgewood, N.J.*
 Alexander Andreas Barron *Metuchen, N.J.*
 Jake Barton *Morrisville, Vt.*
 Lester Allen Batiste *Chicago, Ill.*
 Josie Shannon Bazemore *Wayland, Mass.*
 Derrick Dwayne Beasley Jr. *Andover, Mass.*
 Garrison Lyman Beck *Monmouth, Maine*
 Lauren Rachelle Becker *Falls Church, Va.*
 Elise Meaghan Begin *Moose River, Maine*
 Brittney Nicole Bell *Poland, Maine*
 David Benjamin Bendit *Emmaus, Pa.*
 Jayde Alexis Bennett *Lynn, Mass.*
 Kevin Faulkner Philipson Bennett *The Woodlands, Texas*
 Mary Kaitlyn Bernard *Fort Kent, Maine*
 Rebecca Lucy Berren *Barrington, R.I.*
 Nicholas Velloso Bethlem *Key Biscayne, Fla.*
 Ian Joel Bezahler *Woodbridge, Conn.*
 Chiran Singh Bhandari *Kathmandu, Nepal*
 Jacob Peterson Billiar *Columbus, Ohio*
 Jillian Pratt Blouin *Manchester, Maine*
 Emily C. Bohm *Downingtown, Pa.*
 Allison Jenna Bolger *Sparta, N.J.*
 Luke Michael Bowe *Chevy Chase, Md.*
 Suzanna Leah Bowen *Piedmont, Calif.*
 Sarah Jacqueline Braselton *McLean, Va.*
 Benjamin Haas Brauer *Marblehead, Mass.*
 Jackson Macrae Broadbent *Harvard, Mass.*
 Josef Martin Broder *Brooklyn, N.Y.*
 Conor Johnson Brophy *Beverly, Mass.*
 Carson Lee Brown *Yarmouth, Maine*
 Clayton Maurice Brown *Brooklyn, N.Y.*
 Makayla Kathryn Brown *Carrabassett Valley, Maine*
 Melanie Lynn Brown *Centennial, Colo.*
 Christie Johnson Browne *Manchester-by-the-Sea, Mass.*
 James Benjamin Browne *Manchester, Mass.*
 Anne Marie Burke *Boulder, Colo.*
 Harper Ria Burke *Wilton, Maine*
 Jennie Alice Buskin *Brownfield, Maine*

Freddy Cabrera *Brooklyn, N.Y.*
 Alexandre Frederic Caillot *Morgan, Vt.*
 David Joseph Cain *Bedford, Mass.*
 Claudia Rich Camerino *Chichester, N.H.*
 Claire Elise Cannon *San Francisco, Calif.*
 Colin Benjamin Canny *Manchester, Mass.*
 Anna Beth Caron *Houlton, Maine*
 Kurt Robert Cawley *Hingham, Mass.*
 Zachary Thomas Cecere *Wellesley, Mass.*
 Jennifer Lee Charette *Needham, Mass.*
 Jenny JiaYing Chen *North Potomac, Md.*

Kai Chen *Suzhou, China*
 William Francis Chen *San Diego, Calif.*
 Xueqian Chen *Wuhan, China*
 Caroline Marie Chessare *Baltimore, Md.*
 Elisabeth Chafee Gamble Childs *Denver, Colo.*
 Daniel Julien Chiniara *Brookline, Mass.*
 Thomas John Chippendale Jr. *Encinitas, Calif.*
 Eleni Tenzin Choepel *New Haven, Conn.*
 Emma Caperton Clancy *Charlottesville, Va.*
 Maureen Elizabeth Clark *Housatonic, Mass.*
 Gareth Wells Cleveland *Brooklin, Maine*
 Elizabeth Cynthia Dibeler Cochrane *Warren, Vt.*
 Madeleine Elizabeth Cohen *Wayland, Mass.*
 Brittany Rose Colford *Epping, N.H.*
 Molly Ng Colman *New York, N.Y.*
 Evangeline Eleni Condakes *Weston, Mass.*
 Francesca LaFrance Cone *York, Maine*
 Kelsey Ann Conroy *Falmouth, Maine*
 Kara Meyer Constine *Punta Gorda, Fla.*
 Benjamin Kyu Cook *New York, N.Y.*
 Daniel Patrick Covert *Dover, N.H.*
 Tuckerman Bartlett Crater *Bedford, N.Y.*
 Abigail Boyer Crocker *Hallowell, Maine*
 Ethan Van Crockett *Plattsburgh, N.Y.*
 Heather Abbott Cronin *Foxboro, Mass.*
 Julia Rita Crouter *Portland, Maine*
 Laura Crowley *Wilton, Maine*
 Olivia Crowley Gottlieb *Boston, Mass.*
 Kimberly Brady Cunningham *Stamford, Conn.*
 Caitlin Caroline Curcuruto *Winfield, Pa.*
 Emily Susan Czotter *Holliston, Mass.*

Ellicott Keller Dandy *Vail, Colo.*
 Stefan Philip DavatzBaar *Switzerland*
 Caitlin Diane Davis *Marblehead, Mass.*
 Charles Llewellyn Davis *Cornelius, N.C.*
 Monica Jean Davis *Middleton, Mass.*
 Lauren Elizabeth De Camilla *Brunswick, Maine*
 Alexandra May DeConti *Boxford, Mass.*
 Julia Noone de Guzman *Lloyd Harbor, N.Y.*
 Miles Conner de Klerk *Pittsburgh, Pa.*
 Matthew Ryan Delaney *Richmond, United Kingdom*
 Danielle Vaun Dellarco *Silver Spring, Md.*
 Michaelina Marcoux Deneka *Gales Ferry, Conn.*
 David Gilroy Deneroff *New York, N.Y.*
 Brett Ashley Depper Goldstein *Swampscott, Mass.*
 Justin Nicholas De Santis *East Greenbush, N.Y.*
 Brian Swindell Desmond *Ann Arbor, Mich.*
 Ian Price Deveau *Jamestown, R.I.*
 Berol Dewdney *Chester, Vt.*
 Colin Alejandro Dilley *Washington, D.C.*
 Elizabeth Jane DiMarco *Freeport, Maine*
 Arran Ritger Dindorf *Bartlett, N.H.*
 Thando Dlamini *Manzini, Swaziland*
 Luke Alexander Doherty Munro *Hudson, Mass.*
 Sean Patrick Donahue *Hopkinton, Mass.*
 Lucy S. Dotson *New York, N.Y.*
 Indigo Daniel-Turpin Dow *Cambridge, Mass.*
 Laura K. Duff *East Greenwich, R.I.*
 Raymond Vincent Duffy Jr. *Greenwich, Conn.*
 Claire Elizabeth Dunn *Middletown, Conn.*
 Eli Nicholas Radin Dupree *Westborough, Mass.*

Eric Lee Eberhart *Rye Beach, N.H.*
 Pasquale Petrilli Eckert *Harvard, Mass.*
 Samantha Michele Kingsland Eddy *Brunswick, Maine*
 Courtney Lee Erskine *Turner, Maine*

Andrew Justin Fabricant *Hopkinton, Mass.*

Keith Bailey Fairbrother *Madison, N.J.*
 Ethan Elbert Farina-Henry *Eugene, Ore.*
 Katherine Elizabeth Fecteau *Portland, Maine*
 Victoria Yuan Feng *New York, N.Y.*
 Sarah Carolyn Fensore *New Gloucester, Maine*
 Emily Katherine Ferrero *Miami, Fla.*
 Gordon Sedgewick Fischer *Camden, Maine*
 Lauren Fisher *Westwood, Mass.*
 Patrick David Fitzgerald *Bedford, N.H.*
 Megan Eleanore Flaherty *Bridgewater, Mass.*
 Beth Ellen Fleming *Newton, Mass.*
 Mary Virginia Fletcher *Waldorf, Md.*
 Andrew Stryker Flynn *Glen Ellyn, Ill.*
 Kelly Catherine Foreman *Wilmette, Ill.*
 Allison Julia Fowle *Brooklyn, N.Y.*
 Allison C. Frank *Londonderry, N.H.*
 Charles Edwards Frank *Wyndmoor, Pa.*
 Garth Peter Franklin *Worcester, Mass.*
 Madeleine Toll Friedman *East Sandwich, Mass.*
 Alicia Rose Furnary *Portland, Ore.*

Peter John Gabranski *Haydenville, Mass.*
 Charlotte Hallowell Gardiner *Chestnut Hill, Mass.*
 Daniel Franklin Garin *Bethesda, Md.*
 Lindsay Elizabeth Garrard *Wilmington, Mass.*
 Cara Lynn Gaynor *Yorktown Heights, N.Y.*
 Harrison Stephen Geldermann *Lake Forest, Ill.*
 Lucy Davenport Gerrity *Cumberland, Maine*
 Julian Christopher Giarraputo *Astoria, N.Y.*
 John William Gilboy *Saco, Maine*
 Kelsey Lynne Gillen *North Andover, Mass.*
 Patrick Richard Gilligan *Edina, Minn.*
 Hanna Glickman *South Windsor, Conn.*
 Alison Henrie Gluck *Newton, Mass.*
 Olga Victorovna Golovkina *Newton, Mass.*
 Spencer Ryan Gopaul *Washington, D.C.*
 Nicholas Hartman Graves *Minneapolis, Minn.*
 Lily Elizabeth Violet Greenberg *Palm Beach, Fla.*
 Kayla Marie Gross *East Hampstead, N.H.*
 Rachel Maria Guerra *Milton, Mass.*

Rachel Kathryn Haines *Topsham, Maine*
 Jennifer Rose Hale *Waterville, Maine*
 Katherine Lucy Hallett *Needham, Mass.*
 Carly Elise Hallowell *Lancaster, Pa.*
 Galen Klein Hammitt *Wayland, Mass.*
 Kathleen Diamond Hamre *Holliston, Mass.*
 Kristina Haney *Gaillard, France*
 Benjamin Alexander Hannon *Salt Lake City, Utah*
 Scott Philip Harff *Watertown, N.Y.*
 Patrick A. Harper *Ipswich, Mass.*
 Kendall Anne Hatch *Saco, Maine*
 Nina Phillips Hatch *Ipswich, Mass.*
 Andrew Viking Hedberg *Plymouth, N.H.*
 Siya Upendra Hegde *Avon, Conn.*
 Patrick John Henke *Rhinebeck, N.Y.*
 Claire Adrienne Herbig *East Lyme, Conn.*
 Zoe Alyssa Herrmann *Alameda, Calif.*
 Allison Sara Hess *Westlake Village, Calif.*
 Brady Stone Hesslein *Newton, Mass.*
 Benjamin Anderson Hill *Brookline, Mass.*
 Erika E. Hinman *Hastings On Hudson, N.Y.*
 Molly Patricia Hodson *Port Washington, N.Y.*
 Maxwell Michael Hogue *Hanover, N.H.*
 John Willard Holman IV *Morristown, N.J.*
 Sarah Alison Holmes *Prairie Village, Kan.*
 Lisa Whitney Hoopes *Ipswich, Mass.*
 James Antony Stewart Hootsmans *South Glastonbury, Conn.*
 Katherine Santry Houser *Marblehead, Mass.*

Cassie Keshey Huang *Andover, Mass.*
 Weiming Huang *Beijing, China*
 Arthur Anderson Huber III *Darien, Conn.*
 Woody Rhodes Huber *Franklin, Maine*
 Elizabeth Marie Hughes *Westford, Mass.*
 Shaquan Antonio Huntt *Bronx, N.Y.*
 Georgina Anna Cecily Hurst *New Canaan, Conn.*
 Daniel K. Hussey *Waterville, Maine*

Mugyenzi Innocent *Mbarara, Uganda*
 John Stanley Iseman *Cambridge, N.Y.*
 Jayson James Ito-Adler *Belmont, Mass.*

Molly Elizabeth Jackel *Worcester, Mass.*
 Rachel Norton Jacobs *Arlington, Va.*
 Constance Kelly Jangro *Reading, Mass.*
 John James Jennings IV *Danvers, Mass.*
 Yichen Jiang *Northshore City, New Zealand*
 Ashley Maureen Johnson *Old Orchard Beach, Maine*
 Daria Malia Jones *Fredonia, N.Y.*
 Peter Crane Jones *Winnetka, Ill.*
 Marcus Ulf Axel Josefsson *Portsmouth, R.I.*
 Sarah Elizabeth Junod *Burnsville, Minn.*

Catherine D. Kahl *Alexandria, Va.*
 Kareem Kalil *Southborough, Mass.*
 Allyson Wilcox Kane *Montpelier, Vt.*
 Max Benjamin Kanner *Bethesda, Md.*
 Lisa Cluett Kaplan *Cape Elizabeth, Maine*
 Samuel Marcus Kaplan *New York, N.Y.*
 Emily Elizabeth Karr *Marshfield, Mass.*
 Hillary Elizabeth Keach *Falmouth, Maine*
 Virginia Anne Keesler *Concord, Mass.*
 Michael Harold Kellar *Washington, D.C.*
 Christian Thomas Kelso *Summit, N.J.*
 Malcolm Lorber Kerr *Saint Paul, Minn.*
 Peter James Kerr *Sharon, Mass.*
 Aurora Yvonne Kesseli *Milton, Mass.*
 Israelle Mae Kidson *Augusta, Maine*
 Byung San Kim *Austin, Texas*
 Jayeon Kim *Blue Bell, Pa.*
 JeeSol Kim *Richland, Wash.*
 Nicolette Hanna Kim *Lancaster, Pa.*
 Shelley Lynn Kind *Los Altos Hills, Calif.*
 Esther Mavis King *Brussels, Belgium*
 Emma Elizabeth Klein *Longmeadow, Mass.*
 Jared Cory Kloth *Newtown, Conn.*
 Kelly Elizabeth Kneeland *Stoneham, Mass.*
 Julia Knoeff *Amsterdam, Netherlands*
 Bjorn Erik Knutson *Bloomington, Minn.*
 Nickolas Milton Kondiles *Lake Forest, Ill.*
 Dominique Kone *Bucksport, Maine*
 Neal David Kopser *Baltimore, Md.*
 Lea Nicole Korsmeyer *Old Lyme, Conn.*
 Jake Benjamin Kramer *Medfield, Mass.*
 Nathan A. Krump *Mendham, N.J.*

Eliza Blake Laamoon *Denmark, Maine*
 Michael Austin Lahiff III *Melrose, Mass.*
 Courtney Nicole Laird *Wyckoff, N.J.*
 Sarah Marlyne Lake *Longmeadow, Mass.*
 Mariel Jean Lambrukos *Concord, N.H.*
 Michael Thomas Langley *Short Hills, N.J.*
 Matthew Clarke LaPine *Barnstable, Mass.*
 Matthew Anders Larsen *San Francisco, Calif.*
 Eliza Ruth Helling Larson *Elgin, Minn.*
 Tyler James Lauzon *Saco, Maine*
 Amanda Lee Lavigueur *Hudson, N.H.*
 Adam Charles LaViolet *Westbrook, Maine*
 Kathryn Danielle Laxson *Wayzata, Minn.*

My Phuong Le *Hanoi, Vietnam*
 Kathryn Noble Wishard Lee *Wilmette, Ill.*
 Larissa Nina Lee *Piercefield, N.Y.*
 Andres Javier Lemus Centes *Mixco, Guatemala*
 Anna Rose Leschen-Lindell *Falmouth, Mass.*
 Samantha Glenda Lessard *Waterville, Maine*
 Thomas John Letourneau *Dayton, Maine*
 Rebecca Haley Levenson *Sharon, Mass.*
 Emma Jess Levin *West Hartford, Conn.*
 Julie Elizabeth Lasker Levine *Byram, N.J.*
 Lloyd L. Liang *Rancho Cucamonga, Calif.*
 Morgan Therese Lingar *Danville, N.H.*
 Michael Joseph Linskey III *Boxford, Mass.*
 Audrey Renshaw Lomax *Saint Paul, Minn.*
 Rebecca A. London *Carrabassett Valley, Maine*
 Madison Oswald Louis *Wellesley, Mass.*
 Keith Ranney Love *Hopkinton, Mass.*
 Mckenzie Elise Love *Wenham, Mass.*
 Sarah Ingersoll Lyon *Bethesda, Md.*
 Vanessa Kathleen Lyons *Hampton, N.H.*

Jun Ma *Wuhan, China*
 James Dent MacDougall *Ardsville, N.Y.*
 Donald Francis MacMaster Jr. *Madison, N.J.*
 Elizabeth Jeannette Malone *Andover, Mass.*
 Diana Genowefa Manduca *Portland, Maine*
 George Fanton Manley *Weston, Mass.*
 Matthew George Mantikas *Glastonbury, Conn.*
 Patrick Hiroaki Martin *Tokyo, Japan*
 Taggart Emerson Martin III *West Norwalk, Conn.*
 Jacob Eli Marx *Chevy Chase, Md.*
 Muhammad Arjumand Masood *Islamabad, Pakistan*
 Marc Woodruff Massie *Wayzata, Minn.*
 Abbott Grey Matthews *Wilson, N.C.*
 John Patrick Mauel *Houston, Texas*
 Holly Elizabeth Mawn *Milton, Mass.*
 Laramie Laybourn Maxwell *Jackson, Wyo.*
 Rebecca Sarah Mayer *Winnetka, Ill.*
 Emma Ryde Mayville *Newton, Mass.*
 Rebecca Anne McAfee *West Palm Beach, Fla.*
 Alexandra Kingman McAuliff *Waterville, Maine*
 Katherine Ryan McCarrick *Boston, Mass.*
 Eoin David McCarron *Portland, Maine*
 Zachary Enlow McCartney *Holliston, Mass.*
 Priscilla Louise McCelvey *Brookeville, Md.*
 Ian Freeman McDonnell *Bangor, Maine*
 Delaney Laura McDonough *Montclair, N.J.*
 Kathryn Harrison McElroy *New York, N.Y.*
 Jemarley Lovhn McFarlane *Jamaica, N.Y.*
 Cory James McGrath *Yarmouth Port, Mass.*
 Eileen Elizabeth McGuire *Weston, Mass.*
 Gregory Llewellyn McKillop *Washington, D.C.*
 Jacqueline E. McLaughlin *Medfield, Mass.*
 Vichetrath Meas *Banteay Meanchey, Cambodia*
 Ethan Michael Meigs *Hastings On Hudson, N.Y.*
 Andrew Campbell Meisel *Newtown, Conn.*
 Stefan George Merriam *Boxford, Mass.*
 Sean Michael Merz *South Paris, Maine*
 Margaret McNitt Meyer *Arlington, Va.*
 Brita Lillan Midness *Saint Paul, Minn.*
 Kyle Andrew Migliorini *Stoneham, Mass.*
 Tendai Aaron M'ndange-Pfupfu *Potomac, Md.*
 Kayleigh Theresa Monahan *Westport, Conn.*
 Allison Iris Mond *Needham, Mass.*
 Meaghan Elizabeth Mooney *Wellesley, Mass.*
 Julia G. Moore *Plainfield, N.H.*
 Courtney Farrell Moran *Newton, Mass.*
 Brian Jeffrey Morgan *Haverhill, Mass.*

Brendan Thomas Moriarty *New Fairfield, Conn.*
 Jane Mensing Munger *Wheat Ridge, Colo.*
 Shameeka S. Murphy *Omaha, Neb.*
 Rebecca Alexandra Murry *New York, N.Y.*
 Beatrice Kitaamirike Nakiryowa *Kampala, Uganda*
 Alina Emily Nakos *Andover, Conn.*
 Sarah Goldman Nalven *Brookline, Mass.*
 Kelsey Rae Chiemi Naruse *Wailuku, Hawaii*
 Jean-Jacques Ndayisenga *Kigali, Rwanda*
 Mark Timothy Nelson *Walpole, Mass.*
 Rebecca Susanne Newman *Bondville, Vt.*
 Alexandra A.O. Nichols *Chesterville, Maine*
 Chelsea Anne Nickerson *Keene, N.H.*
 Stephen Thomas Nodder *Mbabane, Swaziland*
 William Howard Norton *Acton, Mass.*
 Nicholas Fair Nowak *Medfield, Mass.*
 Kate Livingston O'Callaghan *Cohasset, Mass.*
 Colleen Marie O'Donnell *Winchester, Mass.*
 Olisadumbi Nwaka Amaka Okoh *Staten Island, N.Y.*
 Camilla Kana Ostrow *Newton, Mass.*
 Sean Tooker Padungtin *Syracuse, N.Y.*
 Nicholas John Papanastassiou *Stow, Mass.*
 Tyler Becker Parrott *Oakland, Calif.*
 Molly Elizabeth Parsons *New Canaan, Conn.*
 Marguerite Woelfel Paterson *Wilton, Conn.*
 Charlotte Emily Peck *Needham, Mass.*
 Michaela Catherine Pembroke *Medfield, Mass.*
 Andrew Rawlins Pepper-Anderson *Lee, Mass.*
 Ismael Perez *Houston, Texas*
 Michael Steven Perreault *Van Buren, Maine*
 Hilary Metina Perrey *Westbrook, Maine*
 Benjamin Adam Perrin *Middlefield, Conn.*
 Alec D. Peters *Laconia, N.H.*
 Lindsay Laurie Peterson *Fairfield, Conn.*
 Theresa Marie Petesch *Rockville, Md.*
 Jessica Fatima Pires *Stow, Mass.*
 Katherine Grace Pistel *Amherst, Mass.*
 Allison Leigh Polchinski *Ridgefield, Conn.*
 Philip W. Prosapio *Little Falls, Minn.*
 Lindsey Danielle Pruet *Cañon City, Colo.*
 Catherine Elizabeth Raker *Amherst, Mass.*
 Mary McRae Randall *New Gloucester, Maine*
 Alexander James Rasmussen *Gloucester, Mass.*
 Jalene Tiruneh Regassa *Westbrook, Maine*
 Corey Elizabeth Reichler *West Simsbury, Conn.*
 Avram Reisman *Cooper, Maine*
 Meredith Frances Reynolds *Marion, Mass.*
 Arlinda Rezhdo *Fier, Albania*
 Sarah Elizabeth Rich *Denver, Colo.*
 Conor Alexander Richardson *Sunfish Lake, Minn.*
 Wesley Ian Richardson *Williamstown, Mass.*
 Dylan Woodward Riessen *Hanover, N.H.*
 Nicholas Peter Rimsa *Andover, Conn.*
 Sean Ripoll *Rosedale, N.Y.*
 Anastasia Brianna Rivard *Plum Island, Mass.*
 Hallie Elizabeth Robbie *Norwell, Mass.*
 Cordelia Cassidy Roberts *Steamboat Springs, Colo.*
 Lindsay Louise Roberts *Baileysville, Maine*
 Mary Elizabeth Rogers *Felton, Pa.*
 James Edwin Rooney *Pelham, N.Y.*
 Rachel Ann Rosenbaum *Colorado Springs, Colo.*
 Melanie Louise Ross *Freeport, Maine*
 Carly Melissa Rushford *Potomac, Md.*
 Jazmine Barkley Russell *Phoenix, Ariz.*
 Brian James Russo *Wakefield, Mass.*
 Elliott Lawrence Ruvelson *St. Louis, Mo.*

Allana Jane Sanborn *Eliot, Maine*
 Hillary Elisabeth Sapanski *New Canaan, Conn.*
 Cara Diane Saunders *Waterville, Maine*
 Jamison Michael Sawyer *Wilton, Maine*
 Grace Mitchell Schlesinger *San Francisco, Calif.*
 Samuel Philip Schmidt *Brooklyn, N.Y.*
 Chelsea Amelia Scholz *Skaneateles, N.Y.*
 John Dorje Schroeder *Glencoe, Ill.*
 Layne Catherine Schwab *South Burlington, Vt.*
 Michelle Rebecca Seares *Hackensack, N.J.*
 Zhanar Seitmagzimova *Shymkent, Kazakhstan*
 Joonseung SeoGoyang, *Republic of Korea*
 Justine Marie Seraganian *Montreal, Que., Canada*
 Gregory Martin Seyfarth *Los Altos, Calif.*
 Emily Lorraine Shankle *Kennebec, Wash.*
 Ana Austin Shapiro *Pittsburgh, Pa.*
 James Blaine Shaum IV *Los Angeles, Calif.*
 Saboor Mahdi Sheerazi *Oakland Gardens, N.Y.*
 Kathryn Margaret Shei *Inverness, Ill.*
 Emily Victoria Sher *Oak Park, Ill.*
 Olivia Judith Sher *Houston, Texas*
 Robert Trevor Sherburne *Mill Valley, Calif.*
 Anthony Shoji Shimamoto *Tokyo, Japan*
 Zachary Jon Simon *Winchester, Mass.*
 Julia Cooke Simons *Osterville, Mass.*
 Orit Katarina Sirka *Padina, Republic of Serbia*
 Shireen Nazari Smalley *Houston, Texas*
 Michael Smigelski *Mountain Lakes, N.J.*
 Mariah Sophie Smith *Northport, Maine*
 Mimi Elizabeth Smith *Presque Isle, Maine*
 Tyrell Mohamed Smith *Bronx, N.Y.*
 Rose Sarah Solomon *Lexington, Mass.*
 Paul D. Spada *Tewksbury, Mass.*
 Charles Christopher Spatz *Pound Ridge, N.Y.*
 Adam Noah Spierer *Bedford, N.H.*
 James Sterling Staley *Mahopac, N.Y.*
 Naomi Alina Staley *Fort Collins, Colo.*
 Jessalyn T. Steinman *Portland, Maine*
 Michael Warren Stephens Jr. *Atlanta, Ga.*
 Carter Raymond Stevens *Dublin, Ohio*
 Madeline Mary Strachota *Edina, Minn.*
 Maid Strasevic *Tuzla, Bosnia and Herzegovina*
 Julio Cesar Suastegui *Compton, Calif.*
 Jillian Helene Sullivan *Hingham, Mass.*
 Cassandra Kathleen Sullivan *Milton, Mass.*
 Qi Sun *Ganzhou, China*
 Diana Geetha Sunder *Winchester, Mass.*
 Jared Sears Supple *Richmond, Vt.*
 Molly Elizabeth Susla *Freeport, Maine*
 Arvia Sutandi *Covina, Calif.*

William David Taft *Dover, Mass.*
 Joseph Matthew Tagliente *Weston, Mass.*
 Margaret Katherine Taylor *Washington, D.C.*
 Noah James Teachey *Topsham, Maine*
 Meghan Tedoldi *Needham, Mass.*
 Brittany Tonika Thomas *New York, N.Y.*
 Adam Kinney Thompson *Readfield, Maine*
 Leah Sarna Tichansky *New York, N.Y.*
 Jeremy Scott Torrisi *New York, N.Y.*
 Amy Katherine Tortorello *Medway, Mass.*
 Whitney Hale Trook *Ketchum, Idaho*
 Shany Sultana Tropper *Graz, Austria*
 Jennifer Tsang *Bangor, Maine*
 Jacob Philip Tucker *Newton, Mass.*
 John William Tully *Winchester, Mass.*
 Adrianna Delano Twombly *Falmouth, Maine*
 Chelsea Rae Tyler *Oakland, Maine*

Emily Rose Unger *Rye, N.H.*

Erica S. Vandenberg *Grand Rapids, Mich.*

Noah Ahmed VanValkenburg *West Bloomfield, Mich.*

Emily Varni *Manhattan Beach, Calif.*

Ryan Michael Veillette *Westfield, Mass.*

Valerie Rita Vesnaver *Salem, Conn.*

Jesus S. Vidaurri-Martinez *Nuevo León, México*

Jessica Anne Villella *Johnston, R.I.*

Caroline Harding Wade *Lake Forest Park, Wash.*

Riley Leona Wagner *Durhamville, N.Y.*

Louisa Horlbeck Walker *Lincoln, Mass.*

Leah Hope Walpuck *Bethesda, Md.*

Cale Jenks Wardell *Lake Forest, Ill.*

Lindley Elisabeth Wells *Williamstown, Mass.*

Rosalie Beth Carney Wennberg *Cape Elizabeth, Maine*

Richard Conrad Wiederhold *New Canaan, Conn.*

Sarah Eliana Wiener *Mequon, Wis.*

Charlotte Tenney Wiesenberg *Mamaroneck, N.Y.*

Thomas Lee Williams *Brunswick, Maine*

Ryan Doull Winter *Andover, Kan.*

Trent Alan Wiseman *Tampa, Fla.*

Gabriela Adela Wyatt *Hopewell, N.J.*

Qianwen Xu *Los Angeles, Calif.*

Siyang Xu *Nanjing, China*

Mads Ydemark *Copenhagen, Denmark*

Dhokela Yzeiraj *Bronx, N.Y.*

Kaitlin Sarah Zdechlik *Frisco, Colo.*

Nicholas Wallace Zeller *Denver, Colo.*

Christine Zeng *New York, N.Y.*

Lauren Elizabeth Zion *Beverly, Mass.*

Special Distinction

Senior Marshal

Alexander James Rasmussen

Summa Cum Laude

Alexander Andreas Barron, Zachary Thomas Cecere, Emma Caperton Clancy, Ethan Van Crockett, Brian Swindell Desmond, Laura K. Duff, Lauren Fisher, Mary Virginia Fletcher, Rachel Maria Guerra, Elizabeth Marie Hughes, Hillary, Elizabeth Keach, Virginia Anne Keesler, Anna Rose Leschen-Lindell, Mckenzie, Elise Love, Chelsea Anne Nickerson, William Howard Norton, Marguerite Woelfel Paterson, Michael Steven Perreault, Alexander James Rasmussen, Zhanar Seitmagzimova, Gregory Martin Seyfarth, Orit Katarina Sirka, Noah James Teachey, Qianwen Xu, Siyang Xu

Magna Cum Laude

Petya Vaneva Andreeva, Elise Meaghan Begin, Chiran Singh Bhandari, Jennifer Lee Charette, Gareth Wells Cleveland, Olivia Crowley Gottlieb, Ellicott Keller Dandy, Beth Ellen Fleming, Charles Edwards Frank, Daniel Franklin Garin, Jennifer Rose Hale, Kendall Anne Hatch, Nina Phillips Hatch, Katherine Santry Houser, Peter Crane Jones, Marcus Ulf Axel Josefsson, Jayeon Kim, Amanda Lee Laviguer, Muhammad Arjumand Masood, Abbott Grey Matthews, Holly Elizabeth Mawn, Eileen Elizabeth McGuire, Sarah Goldman Nalven, Stephen Thomas Nodder, Mimi Elizabeth Smith, Jillian Helene Sullivan, Cale Jenks Wardell

Cum Laude

Emme King Arnzen, Ahmed Asi, Allison Jenna Bolger, Luke Michael Bowe, Melanie Lynn Brown, Alexandre Frederic Caillot, Claudia Rich Camerino, Anna Beth Caron, Madeleine Elizabeth Cohen, Francesca LaFrance Cone, Kelsey Ann Conroy, Daniel Patrick Covert, Lucy S. Dotson, Claire Elizabeth Dunn, Samantha Michele Kingsland Eddy, Katherine Elizabeth Fecteau, Lindsay Elizabeth Garrard, Kelsey Lynne Gillen, Rachel Kathryn Haines, Constance Kelly Jangro, Sarah Elizabeth Junod, Aurora Yvonne Kesseli, Israelle Mae Kidson, Mariel Jean Lambrukos, Adam Charles LaViolet, Michael Joseph Linskey III, Madison Oswald Louis, Keith Ranney Love, Alexandra Kingman McAuliff, Katherine Ryan McCarrick, Eoin David McCarron, Priscilla Louise McCelvey, Gregory Llewellyn McKillop, Kayleigh Theresa Monahan, Courtney Farrell Moran, Rebecca Susanne Newman, Nicholas Fair Nowak, Philip W. Prosapio, Mary Elizabeth Rogers, Hillary Elisabeth Sapanski, Grace Mitchell Schlesinger, Samuel Philip Schmidt, Michelle Rebecca Seares, Mariah Sophie Smith, James Sterling Staley, Carter Raymond Stevens, Jeremy Scott Torrisi, Amy Katherine Tortorello, Jacob Philip Tucker, Jessica Anne Villella, Leah Hope Walpuck

Honors Programs

Honors in American Studies

Emily Elizabeth Karr

Honors in Anthropology

Ellicott Keller Dandy, Jessica Fatima Pires, Rachel Ann Rosenbaum

Honors in Biology

Elise Meaghan Begin, Sarah Goldman Nalven, Chelsea Anne Nickerson, Adam Noah Spierer

Honors in Chemistry

Kayla Marie Gross, Rachel Maria Guerra, Carly Elise Hallowell, Lloyd L. Liang, Beatrice Kitaamirike Nakiryowa, James Blaine Shaum IV, Orit Katarina Sirka

Honors in Cinema and Media Studies (Independent)

Michael Steven Perreault

Honors in Computer Science

Zachary Thomas Cecere, Mary Virginia Fletcher, Zhanar Seitmagzimova

Honors in Economics

Thomas Dabney Abe, Daniel Franklin Garin, Peter Crane Jones, Marcus Ulf Axel Josefsson, Rebecca Susanne Newman, Justine Marie Seraganian, Qi Sun, Siyang Xu

Honors in English

Eliza Hannah Appleton, Lester Allen Batiste, Melanie Lynn Brown, Claire Elise Cannon, Jenny JiaYing Chen, Alexandra May DeConti, Julia Noone de Guzman, Lucy S. Dotson, Michael Thomas Langley, Eliza Ruth Helling Larson, Katherine Ryan McCarrick, Zachary Enlow McCartney, Rebecca Alexandra Murry, Nicholas Fair Nowak, Camilla Kana Ostrow, Michaela Catherine Pembroke, Lindsay Louise Roberts, Mary Elizabeth Rogers, Diana Geetha Sunder, Leah Hope Walpuck

Honors in Environmental Studies

Mary Kaitlyn Bernard, Sarah Alison Holmes, Virginia Anne Keesler, Larissa Nina Lee, Michael Warren Stephens Jr.

Honors in French and Italian

Deborah Ann Amato, Brita Lillian Midness

Honors in Global Studies

Claire Elizabeth Dunn, Georgina Anna Cecily Hurst, Hillary Elisabeth Sapanski, Grace Mitchell Schlesinger

Honors in Government

John William Tully

Honors in History

Alexandre Frederic Caillot, Audrey Renshaw Lomax, Eoin David McCarron, Lindsay Laurie Peterson, Carter Raymond Stevens, Charlotte Tenney Wiesenberg

Honors in Latin American Studies

Abbott Grey Matthews

Honors in Mathematics and Statistics

Alexander Andreas Barron, Gareth Wells Cleveland, Muhammad Arjumand Masood, Alexander James Rasmussen

Honors in Middle Eastern Studies (Independent)

Shireen Nazari Smalley

Honors in Physics and Astronomy

Aurora Yvonne Kesseli, Muhammad Arjumand Masood, Gregory Martin Seyfarth

Honors in Psychology

Constance Kelly Jangro, Hillary Elizabeth Keach, Adam Charles LaViolet

Honors in Religious Studies

Francesca LaFrance Cone, John Willard Holman IV, Brian James Russo

Honors in Science, Technology, and Society

Benjamin Alexander Hannon, Eoin David McCarron, Charles Christopher Spatz

Honors in Sociology

Samantha Michele Kingsland Eddy, Jayeon Kim

Honors in Theater and Dance

Delaney Laura McDonough

Honors in Women's, Gender, and Sexuality Studies

Berol Dewdney

Distinction in Major

African-American Studies

Olisadumbi Nwaka Amaka Okoh

American Studies

Evangeline Eleni Condakes, Caitlin Diane Davis, Molly Elizabeth Jackel, Emily Elizabeth Karr, Elizabeth Jeannette Malone, Jessica Anne Villella

Anthropology

Claudia Rich Camerino, Ellicott Keller Dandy, Brett Ashley Depper Goldstein, Andrew Justin Fabricant, Katherine Elizabeth Fecteau, Emma Elizabeth Klein, Julia Knoeff, Jessica Fatima Pires, Jalene Tiruneh Regassa, Sarah Elizabeth Rich, Rachel Ann Rosenbaum, Jennifer Tsang, Emily Varni

Art

Jake Barton, Jacob Peterson Billiar, Sarah Jacqueline Braselton, Olivia Crowley Gottlieb, Pasquale Petrilli Eckert, Peter John Gabranski, Zoe Alyssa Herrmann, Molly Patricia Hodson, Kathryn Harrison McElroy, Jane Mensing Munger, Colleen Marie O'Donnell, Elliott Lawrence Ruvelson, Olivia Judith Sher, Jessalyn T. Steinman, Amy Katherine Tortorello

Biology

Josie Shannon Bazemore, Elise Meaghan Begin, Kevin Faulkner Philipso Bennett, Heather Abbott Cronin, Sean Patrick Donahue, Laura K. Duff, Jennifer Rose Hale, Elizabeth Marie Hughes, Nathan A. Krump, Adam Charles LaViolet, Sarah Goldman Nalven, Chelsea Anne Nickerson, Corey Elizabeth Reichler, Jared Sears Supple, Jeremy Scott Torrisi, Caroline Harding Wade

Chemistry

Charles Edwards Frank, John William Gilboy, Rachel Maria Guerra, Stephen Thomas Nodder, Orit Katarina Sirka

Cinema and Media Studies (Independent)

Michael Steven Perrault

Classical Civilization

John William Gilboy, Kendall Anne Hatch

Classics

Alexandre Frederic Caillot, Allison C. Frank

Computer Science

David Joseph Cain, Zachary Thomas Cecere, Mary Virginia Fletcher, Zhanar Seitmagzimova, James Sterling Staley

East Asian Studies

Petya Vaneva Andreeva, Anne Marie Burke, Jennifer Tsang

Economics

Thomas Dabney Abe, Philip Macdonald Amato, Rebecca Lucy Berren, David Joseph Cain, Kai Chen, Gareth Wells Cleveland, Charles Llewellyn Davis, Daniel Franklin Garin, Galen Klein Hammitt, Weiming Huang, Arthur Anderson Huber III, Woody Rhodes Huber, Yichen Jiang, Kareem Kalil, Jake Benjamin Kramer, Amanda Lee Lavigueur, Michael Joseph Linskey III, Ian Freeman McDonnell, Allison Iris Mond, Rebecca Susanne Newman, Colleen Marie O'Donnell, Nicholas John Papanastassiou, Theresa Marie Petesch, Jamison Michael Sawyer, Qi Sun, Richard Conrad Wiederhold, Qianwen Xu, Siyang Xu

Economics-Mathematics

Hilary Davenport Barr, Xueqian Chen, Matthew Ryan Delaney, Peter Crane Jones, Marcus Ulf Axel Josefsson, Mariel Jean Lambrukos, My Phuong Le, Justine Marie Seraganian

English

Lindsay Rose Alston, Eliza Hannah Appleton, John David Arnold, Justin Taylor Banks, Luke Michael Bowe, Melanie Lynn Brown, Claire Elise Cannon, Jenny JiaYing Chen, Emma Caperton Clancy, Kelsey Ann Conroy, Alexandra May DeConti, Julia Noone de Guzman, David Gilroy Deneroff, Brian Swindell Desmond, Lucy S. Dotson, Allison Julia Fowle, Rachel Kathryn Haines, Shelley Lynn Kind, Michael Thomas Langley, Mckenzie Elise Love, Katherine Ryan McCarrick, Zachary Enlow McCartney, Nicholas Fair Nowak, Camilla Kana Ostrow, Michaela Catherine Pembroke, Lindsay Louise Roberts, Mary Elizabeth Rogers, Shireen Nazari Smalley, Diana Geetha Sunder, Chelsea Rae Tyler, Leah Hope Walpuck

Environmental Studies

Lindsay Elizabeth Garrard, Nina Phillips Hatch, Virginia Anne Keesler, Amanda Lee Lavigueur, Larissa Nina Lee, Keith Ranney Love, Nicholas John Papanastassiou, Corey Elizabeth Reichler, Noah James Teachey

French Studies

Deborah Ann Amato, Sarah Carolyn Fensore, Cara Lynn Gaynor, Allison Sara Hess, Israelae Mae Kidson, Emma Jess Levin, Madison Oswald Louis, Brita Lillian Midness, Mary Elizabeth Rogers, Emily Rose Unger

Geology

Allison Jenna Bolger

Geoscience

Arran Ritger Dindorf

German Studies

Thomas John Chippendale Jr.

Global Environmental Justice (Independent)

Anna Rose Leschen-Lindell

Global Studies

Jennifer Lee Charette, Jenny JiaYing Chen, Claire Elizabeth Dunn, Hanna Glickman, Georgina Anna Cecily Hurst, Max Benjamin Kanner, Julia Knoeff, Madison Oswald Louis, Alexandra Kingman McAuliff, Gregory Llewellyn McKillop, Courtney Farrell Moran, Jessica Fatima Pires, Rachel Ann Rosenbaum, Hillary Elisabeth Sapanski, Cara Diane Saunders, Grace Mitchell Schlesinger, Layne Catherine Schwab, Emily Rose Unger

Government

Claire Elizabeth Dunn, Lauren Fisher, Kelsey Lynne Gillen, Abbott Grey Matthews, Alexandra Kingman McAuliff, Courtney Farrell Moran, Lindsey Danielle Pruet, Layne Catherine Schwab, Michelle Rebecca Seares, Carter Raymond Stevens, Jacob Philip Tucker, Mads Ydemark

History

Alexandre Frederic Caillot, Beth Ellen Fleming, Sarah Elizabeth Junod, Mckenzie Elise Love, Patrick Hiroaki Martin, Eoin David McCarron, Carter Raymond Stevens, Jillian Helene Sullivan

Human Development (Independent)

Emme King Arzen, Courtney Lee Erskine, Margaret McNitt Meyer, Sarah Eliana Wiener

Italian Studies (Independent)

Lauren Elizabeth De Camilla

Jewish Studies (Independent)

Michelle Rebecca Seares

Latin American Studies

Benjamin Sebastian Amy, Molly Ng Colman, Ellicott Keller Dandy, Abbott Grey Matthews, Marguerite Woelfel Paterson

Mathematical Sciences

Chiran Singh Bhandari, Gareth Wells Cleveland, Ethan Van Crockett, Elizabeth Marie Hughes, Zhanar Seitmagzimova, Qianwen Xu

Mathematics

Alexander Andreas Barron, Mary Virginia Fletcher, Muhammad Arjumand Masood, Philip W. Prosapio, Alexander James Rasmussen, Siyang Xu

Middle Eastern Studies (Independent)

Shireen Nazari Smalley

Music

Kendall Anne Hatch, Jared Cory Kloth, William Howard Norton, Noah James Teachey

Philosophy

Benjamin Anderson Hill, Tyler James Lauzon, Samuel Philip Schmidt

Physics

Chiran Singh Bhandari, Daniel Patrick Covert, Ethan Van Crockett, Aurora Yvonne Kesseli, Muhammad Arjumand Masood, Stephen Thomas Nodder, William Howard Norton, Philip W. Prosapio, Meredith Frances Reynolds, Gregory Martin Seyfarth

Psychology

Chelsea Anne Ammons, Josef Martin Broder, Melanie Lynn Brown, Anna Beth Caron, Madeleine Elizabeth Cohen, Danielle Vaun Dellarco, Samantha Michele Kingsland Eddy, Katherine Santry Houser, Constance Kelly Jangro, Hillary Elizabeth Keach, Adam Charles LaViolet, Julie Elizabeth Lasker Levine, Holly Elizabeth Mawn, Priscilla Louise McCelvey, Eileen Elizabeth McGuire, Jacqueline E. McLaughlin, Kayleigh Theresa Monahan, Julia Cooke Simons, Mariah Sophie Smith, Arvia Sutandi, Valerie Rita Vesnaver, Cale Jenks Wardell

Religious Studies

Brittany Rose Colford, Francesca LaFrance Cone, John Willard Holman IV, Israelae Mae Kidson, Brian James Russo, Emily Victoria Sher

Russian Language and Culture

Jayeon Kim, Alina Emily Nakos

Science, Technology, and Society

Victoria Yuan Feng, Benjamin Alexander Hannon, Daniel K. Hussey, Nickolas Milton Kondiles, Eoin David McCarron, Charles Christopher Spatz

Sociology

Samantha Michele Kingsland Eddy, Molly Patricia Hodson, Jayeon Kim, Sarah Ingersoll Lyon

Spanish

Chelsea Anne Ammons, Courtney Nicole Laird, Marguerite Woelfel Paterson, Grace Mitchell Schlesinger, Riley Leona Wagner, Rosalie Beth Carney Wennberg

Theater and Dance

Ahmed Asi, Delaney Laura McDonough, Mary McRae Randall, Mimi Elizabeth Smith

Urban Education (Independent)

Kareem Kalil

Women's, Gender, and Sexuality Studies

Jayde Alexis Bennett, Berol Dewdney, Laura K. Duff, Thomas John Letourneau, Morgan Therese Lingar, Camilla Kana Ostrow, Jessica Anne Villella, Rosalie Beth Carney Wennberg

Phi Beta Kappa

Petya Vaneva Andreeva, Alexander Andreas Barron, Elise Meaghan Begin, Chiran Singh Bhandari, Zachary Thomas Cecere*, Jennifer Lee Charette, Emma Caperton Clancy, Gareth Wells Cleveland, Ethan Van Crockett, Olivia Crowley Gottlieb, Ellicott Keller Dandy, Brian Swindell Desmond*, Laura K. Duff, Lauren Fisher, Mary Virginia Fletcher*, Charles Edwards Frank, Daniel Franklin Garin, Rachel Maria Guerra*, Jennifer Rose Hale, Nina Phillips Hatch, Katherine Santry Houser, Elizabeth Marie Hughes, Peter Crane Jones, Hillary Elizabeth Keach, Virginia Anne Keesler, Jayeon Kim, Amanda Lee Lavigueur, Anna Rose Leschen-Lindell, Mckenzie Elise Love, Muhammad Arjumand Masood, Abbott Grey Matthews, Holly Elizabeth Mawn, Eileen Elizabeth McGuire, Sarah Goldman Nalven, Chelsea Anne Nickerson, Stephen Thomas Nodder, William Howard Norton, Marguerite Woelfel Paterson, Michael Steven Perreault, Philip W. Prosapio, Alexander James Rasmussen*, Zhanar Seitmagzimova, Gregory Martin Seyfarth*, Orit Katarina Sirka, Mariah Sophie Smith, Mimi Elizabeth Smith, Jillian Helene Sullivan, Noah James Teachey, Cale Jenks Wardell, Qianwen Xu, Siyang Xu*

*elected in junior year

Julius Seelye Bixler Scholars

Zachary Thomas Cecere, Brian Swindell Desmond, Mary Virginia Fletcher, Rachel Maria Guerra, Alexander James Rasmussen, Gregory Martin Seyfarth, Siyang Xu

Charles A. Dana Scholars

Emma Caperton Clancy, Laura K. Duff, Chelsea Anne Nickerson, William Howard Norton, Marguerite Woelfel Paterson, Michael Steven Perreault, Zhanar Seitmagzimova, Orit Katarina Sirka, Noah James Teachey, Qianwen Xu

Ralph J. Bunche Scholars

Eleni Tenzin Choephel, Nicolette Hanna Kim, Kelsey Rae Chiemi Naruse

Senior Scholars

Eli Nicholas Radin Dupree

Lasercake: An Open-World Game About the Environment

Honorary Degree Recipients 2013

David M. Bodine IV '76, Doctor of Science, is senior investigator and chief of the Genetics and Molecular Biology Branch of the NIH Human Genome Research Institute.

Eleanor R. Duckworth '57, Doctor of Education, is a cognitive psychologist and research professor at Harvard's Graduate School of Education.

Kenneth Ongalo-Obote '94, Doctor of Laws, is a member of the Parliament of Uganda.

Elizabeth Ann Czernicki Quist '98, Doctor of Laws, is a veterans' advocate and certified public accountant.

Erik Christian Chenery Quist '99, Doctor of Laws, is a decorated Marine Corps captain who has served in Iraq and Afghanistan.

Peter M. Rouse '68, Doctor of Laws, is counselor to President Barack Obama.

Gregory White Smith '73, Doctor of Letters, is the Pulitzer Prize-winning author of Jackson Pollock: An American Saga

Metropolitan Savas Zembillas '79, Doctor of Divinity, is spiritual leader of the Greek Orthodox Metropolis of Pittsburgh.