Colby

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, Furniture Making, Blacksmithing, and Premed Academy.

Course Offerings

AA226j Sociology of Martin Luther King Jr. Listed as Sociology 226. *Three credit hours.* **S, U** GILKES

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

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

AM215j 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. 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. January 2013 topic: to be determined. Previously offered as American Studies 115. *Prerequisite:* First-year standing. *Three credit hours.* EISEN

AM297j 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. *Two credit hours.* MURPHY

AM335j 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** MANNOCCHI

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

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

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 or drawn on a plate made of plexiglass or another material. Transfer is accomplished by 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: $95. *Two credit hours.* MITCHELL

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

AY197Aj 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. *Three credit hours.* **S, I** MENAIR

AY197Bj Archaeology of Food and Drink We are what we eat, but also where we eat, how we eat, when we eat, and with whom we eat. Food is a fundamental aspect of all human societies and so is a fascinating entry point for exploring our archeological past. We examine the unique impact of food and drink on evolution, identity, gender, politics, wealth, and health throughout human history. Topics covered include an interrogation of the "man the hunter" hypothesis of human evolution, slave diets in Colonial America, alcohol in the Inca Empire, the impact of wheat domestication on societies, and recent popularity of the paleo diet. *Three credit hours.* **S** SMITH

AY212j Human Rights and Social Struggles in Global Perspective Listed as Global Studies 211. *Three credit hours.* FAN

BC176j 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** BEVIER, KLINKERCH, MILLARD

BC264j 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** ANTONIELLO

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

BI176j Exercise Physiology Listed as Biochemistry 176. *Three credit hours.* **N,Lb** BEVIER, MILLARD

BI197j 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 are microorganisms, what are the activities of

microorganisms, and how microbes 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. Students with prior credit for Biology 133 may not receive credit for Biology 197. *Three credit hours.* **N** CHILDERS

BI264j Pills, Potions, and Poisons Listed as Biochemistry 264. *Three credit hours.* **N** ANTONIELLO

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

BI285j Reefs to Red Tides: Ocean Diversity, Function, and Management Survey of the diversity and function of life in the oceans. Emphasis on microbial organisms, processes and interactions that control them, and biological, chemical, and physical factors influencing their distribution and abundance. Classic and contemporary oceanographic techniques discussed. Attention to environmental problems and approaches to managing and solving them. Case studies used to investigate the role of oceanographic research in managing issues including harmful algal blooms, ocean acidification, and fertilization and sustainable fisheries. Students gain working knowledge of major life forms in the sea, their function and interactions, and ecosystem services provided by and management issues associated with each. *Prerequisite:* Biology 131 or 163 or Environmental Studies 271. *Three credit hours.* **N** HEIL

BI287j Oceans in a Changing Climate Listed as Environmental Studies 287. *Three credit hours.* **N** SIERACKI

BI358j Ecological Field Study Listed as Environmental Studies 358. *Three credit hours.* MCCLENACHAN

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

CH197j Chemistry of Color and Art Materials A study of the nature of light and how light interacts with matter to produce color. An exploration of the chemical properties of materials that cause color, as well as which analytical techniques probe those properties as applied to artist materials, such as pigments, dyes, paints, glasses, and ceramics. *Prerequisite:* A strong background in high school chemistry and physics or an introductory college chemistry course (Chemistry 112, 118, or 141) is strongly recommended. *Three credit hours.* **N** CONRY

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

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** WELLS

CS269j 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.* MAXWELL

CS369j 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.* MAXWELL

CS483Jj Honors Research in Computer Science *Noncredit.* MAXWELL

EA483Jj Honors Project *Noncredit.* WEITZ

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 majors or minor. *Three credit hours.* ATKINSON

EC482j 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.* FINDLAY, WALDKIRCH

EC483Jj Senior Honors Thesis *Noncredit.* VULETIN

ED197Jj Multicultural Literacy Introduces students to knowledge and life skills necessary to communicate effectively across areas of difference, enabling them to live and work productively in multicultural environments. Provides tools for understanding and respecting differences based on race, ethnicity, gender, sexuality, social class, religion, and ability. Provides opportunities to become self-aware of attitudes toward difference, and requires analysis of theoretical concepts that inform contemporary work on diversity and social justice. Through innovative exercises, students improve abilities for critical thinking, managing conflict, and communication through writing and public speaking. Fulfills both the international and U.S. diversity requirements, so is an exception to the requirement that students complete two courses for diversity. *Prerequisite:* First-year standing. *Three credit hours.* **I, U** ATKINS, BRADLEY, PRESTON, 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

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.* LINVILLE

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

EN115Jj 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** MILLS, OSBORNE

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

EN197j 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've 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've created. *Three credit hours.* **A** CONLEY

EN231j 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** PUKKILA

EN237j 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** ROY

EN297Jj Art of Fly Fishing: Maine and Bishop, California Fly fishing classics and instruction in casting, knot and fly tying. Week three will be spent fishing the Lower Owens River near Mammoth Lakes, California; critical essays and blog required. Critical analysis of on-line nature-writing, acquisition of fly fishing techniques: gear choice and preparation, knot tying and fly tying, casting, fly selection, nymphing, and writing a blog that promotes awareness of and respect for the natural environment. Beginners and experienced fly fishers welcome. Course cost: $1,600-$2,200 depending on gear owned. *Prerequisite:* Permission of the instructor. *Three credit hours.* **L** SUCHOFF

EN335j American Independents: Their Art and Production Listed as American Studies 335. *Three credit hours.* **A** MANNOCCHI

ES197Aj 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. *Three credit hours.* PENNEY

ES197Cj 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. *Three credit hours.* **L** MACKENZIE

ES214Jj 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:* Not open to students who have completed Environmental Studies 212. *Three credit hours.* GIMOND

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

ES279j Geology of Bermuda Listed as Geology 279. *Three credit hours.* RUEGER

ES285j Reefs to Red Tides: Ocean Diversity, Function, and Management Listed as Biology 285. *Three credit hours.* **N** HEIL

ES287j Oceans in a Changing Climate Oceans provide important ecosystem services that humans depend upon, and they play critical roles in Earth's climate. They are changing in response to human activity and natural cycles. We examine causes and consequences of these changes and how the ocean will mediate them. Topics include cycling of chemical elements necessary for life, rising sea level, melting icecaps, changing ocean pH, changing circulation, the impact on ecosystems and fisheries, and possible climate change mitigation strategies. How humans might respond on global scales and in a timely manner through policy, politics, and social and cultural means. Includes lectures, student-led presentations, and discussions. *Prerequisite:* Biology 131 or 163 or Environmental Studies 271. *Three credit hours.* **N** SIERACKI

ES358j Ecological Field Study The biological diversity, ecology, and conservation of marine ecosystems in Moorea, French Polynesia. Involves qualitative and quantitative field studies of the biological diversity and ecology of coral reef ecosystems; field-based investigation of the environmental challenges facing these ecosystems; discussions with conservation practitioners about innovative conservation solutions and the efficacy of local marine protected areas; exposure to the culture and history of Polynesian Islanders, including pre-European ecosystem management practices and traditional ecological knowledge of marine biodiversity and ecosystem function. Lectures, films, and discussions of assigned readings during the first week followed by a 20-day field trip. Cost: $3,475. Financial aid available for qualified students. *Prerequisite:* Biology 131 or 164 or Environmental Studies 118, and permission of the instructor. *Three credit hours.* MCCLENACHAN

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

GE151j 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** NELSON

GE153j 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** EPSTEIN

GE279j 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.* RUEGER

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

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

GO266j 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.* YODER

GO297Jj Comparative Law: U.S. and Cuban Legal Systems Students will develop an understanding of the strengths and weaknesses of legal and governmental systems which are based upon fundamentally different principles. Initially, in Maine, we will study the U.S. legal system through lectures, readings, observing court proceedings, and meetings with judges. The focus will then shift to the Cuban governmental and legal systems with a necessary introduction to Cuban geography, history, and culture. This study will continue as we travel to Miami for two nights and then to Havana and environs for 9 days. Students will then return to Maine and complete a written assignment. Cost: $3,425. Deposit due October 5th. *Prerequisite:* Government 111, 113, Colby Latin American Studies courses, AP Government, AP History, or equivalent; and approval of the instructor. *Three credit hours.* LEE

GO483Jj Honors Workshop *Noncredit.* YODER

GS211j 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.* FAN

GS483Jj Honors in Global Studies *Noncredit.* YODER

HI388j 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** TURNER

HI483Jj History Honors Program *Noncredit.* LEONARD, SCHECK

IM483Jj Independent Major Honors Program *Noncredit.* TURNER

IT153j Modern and Contemporary Italian Fiction in Translation in Verona A close study of five authors whose work spans the 20th century, including Silvia Bonucci's *Voices from a Time*, Luigi Pirandello's *The Late Mattia Pascal*, Alberto Moravia's *The Conformist*, Giorgio Bassani's *The Garden of the Finzi Contini*, and Andrea Camilleri's *The Terra Cotta Dog*. Three guided lecture tours of Verona, with related readings, include Roman sites such as the Arena and recent excavations. Also includes field trips to nearby Italian cultural centers. Written work required: three essays of literary analysis. Cost: $3,300. *Three credit hours.* **L** BRANCACCIO

JA125j 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.* PRINDLE

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 $689 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. Required reading: Peter Korn's *Woodworking Basics: Essentials of Craftsmanship.* $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

JP097j Integrating Mindfulness into Work, Health, Play, Relationship Mindfulness is defined as 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 exploring techniques which can be brought into everyday life. With light-heartedness 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, where Nancy trained and worked in the Prison Program. Nongraded. *Noncredit.* HATHAWAY

JP197j Introduction to Behavioral Medicine Covers the basic health psychology theory and principles applied to health care settings and the influence of stress on health and disease. Specific 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. *Prerequisite:* Biology 163 or Psychology 111. *Two credit hours.* FERGUSON

JS121j *Entartete* (Degenerate) *Musik* Listed as Music 121. *Three credit hours.* **A, I** SILVER

JS221j Topics in Maine's Jewish History Listed as Religious Studies 221. *Three credit hours.* **H, U** FREIDENREICH

JS297Jj Schtick and Sympathy: Jewish Humor from Bible to Present A survey of the history of Jewish humor from the biblical era until the present. We will explore the cultural and historical factors that have shaped Jewish humor and how Jewish humor has contributed uniquely to the wider world of comedy. From the Book of Esther to *Curb Your Enthusiasm,* the ways that

Jewish theology, linguistics, geography, ethnicity, trauma, and wit have been refracted through the lens of humor. Includes explorations of critical theory, classical texts, short stories, movie screenings, and performances. *Three credit hours.* **A** ISAACS

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** SUKIENNIK

MU091j 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

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

MU116j Introduction to Electronic Music 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** DE KLERK

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

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

MU297j From Hair to Nu Metal: A History of Heavy Metal in All Its Glory A history of heavy metal music from its origins in 1960s blues and psychedelic rock to its most recent iteration as Nu metal. Heavy metal is a dynamic and diverse genre, including sub-genres such as thrash, speed, death, grunge, glam, math, and hair. Students will think, listen, and write critically about popular music, explore the musicological discourse on popular music/heavy metal, and investigate the sociological dynamics of subculture and its significance to the heavy metal scene. *Two credit hours.* LEARY

PH197j Introduction to Biophysics Biophysics is a rapidly growing subfield in physics that applies the tools and techniques used in physics to study biological systems. Emphasis on the ubiquitous role of physical laws in understanding how living organisms behave. Students apply concepts and skills learned in introductory physics (including force and energy) to study biological systems at the molecular and cellular levels. Additional physical quantities pertaining to biosystems, such as entropy, free energies, basic electrostatics, and statistical principles, are introduced as needed. Topics are highly interdisciplinary and include diffusion, random walks, entropic force, fluid flows, biopolymers, membranes, and self-assembly. *Prerequisite:* Physics 141 or 143 or equivalent advanced placement. *Three credit hours.* **N** SATO

PH416j Physics and Astronomy Research Continuation of research begun in Physics 415. *Prerequisite:* Physics 415. *One or two credit hours.* FACULTY

PH483Jj Independent Honors Project *Noncredit.* CONOVER

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

PS483Jj Honors Research I *Noncredit.* SHEETS

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

RE221j 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 historianship 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. Topic for January 2013: Jews at Colby. *Three credit hours.* **H, U** FREIDENREICH

RE226j Sociology of Martin Luther King Jr. Listed as Sociology 226. *Three credit hours.* **S, U** GILKES

RE483Jj Religious Studies Honors Program *Noncredit.* SINGH

RU113j The Literature and Art of St. Petersburg In St. Petersburg, Russia. Students read Pushkin, Dostoevsky, and other major St. Petersburg writers and learn about the city's art and architecture in classroom lectures and museum visits. Theater and concert performances are included; residence is with a Russian family. Conducted in English; no knowledge of Russian required. Nongraded. Cost in 2013: $3,200. Required meetings on campus in November and December. Early registration required. *Three credit hours.* MONASTIREVA-ANSDELL

RU114j Russia's Transition Economy In St. Petersburg, Russia. Daily class lectures and planned site visits introduce students to the Soviet centralized economy and its evolution since the 1950s. Topics include militarization, industrialization, collectivization, budgets and taxation, inflation and currency reforms, banks, investment, the new Russian entrepreneur, stock markets, the oligarchs, and "natural" monopolies. Cultural program included; residence is with a Russian family. Conducted in English; no knowledge of Russian required. Nongraded. Cost in 2013: $3,200. Required meetings on campus in November and December. Early registration required. *Three credit hours.* MONASTIREVA-ANSDELL

RU115j Russian Ethnography In St. Petersburg, Russia. Class lectures and discussions, field trips to the Museum of Anthropology and Ethnography and to the Russian Ethnographical Museum, and day excursions outside the city introduce students to many of the Russian Federation's minority ethnic groups, including the indigenous peoples of Siberia, Russia's northern peoples, Jews, Cossacks, and others. Lectures will contrast tsarist policy to Soviet ethnic policy of the 20th century. Cultural program included; residence is with a Russian family. Conducted in English; no knowledge of Russian required. Nongraded. Cost in 2013: $3,200. Required meetings on campus in November and December. Early registration required. *Three credit hours.* MONASTIREVA-ANSDELL

RU125Jj Elementary Russian I The structure of the Russian language, spoken Russian, listening comprehension, and reading and writing of basic Russian. In addition to the textbook, multimedia materials aid in understanding both the language and culture of Russia. Offered in St. Petersburg. Cost in 2013: $3,200. Required meetings on campus in November and December. Early registration required. *Three credit hours.* MONASTIREVA-ANSDELL

SO119j Self and Society in the Digital Age Students will explore how digital technologies are changing how we work, play, and interact. They will use contemporary social theories to identify and assess opportunities and the challenges afforded by new communication technologies. Using sociological techniques they will investigate how these technologies are reshaping not only how we communicate but the content of information we share. Finally they will discuss implications of these changes for themselves as individuals and as citizens of a large democracy. *Three credit hours.* **S** MAYER

SO212Jj Introduction to GIS and Spatial Analysis Listed as Environmental Studies 214J. *Three credit hours.* GIMOND

SO226j 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** GILKES

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). Goals include understanding and mastery of key topics: 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

SO483Jj Honors Project *Noncredit.* GILKES

SP127Jj Intermediate Spanish I A grammar review at the intermediate level with continued emphasis on interactive communication and cultural awareness, to be offered at the Andean Center for Latin American Studies in Quito, Ecuador. Cost: $2,915. *Prerequisite:* Spanish 126 with a grade of B+ or better and permission of the instructor. *Three credit hours.* SASAKI

ST197j Science, Technology, and the Cultural Cold War An exploration of the role of science and technology in the political, cultural, and social landscapes of postwar America. Highlights ideas about how science and technology motivated foreign and domestic policy decisions, impacted education and military spending, and were appropriated in postwar consumer society, design, and popular culture. Students learn to discuss fundamental themes in Science, Technology, and Society using examples drawn from the nuclear age, the space program, the environmental movement, and modern medicine, and hone their analytic, writing, and speaking skills. *Three credit hours.* MUIR-HARMONY

ST361j Special Topics in Health and Medicine: Substance Use and Abuse Listed as Sociology 361. *Three credit hours.* ARCHIBALD

TD197j Light of the Mind: Celebrating Colby's Bicentennial Performers (actors, singers, and dancers) interested in participating in "Light of the Mind" may audition for a role in the company. Jan Plan will be devoted to rehearsing this new multimedia performance work by professors Lynne Conner and Jonathan Hallstrom, which will be performed on Wednesday, February 27 as part of the College's official bicentennial celebration. Students will gain skills in collaboration, oral presentation, creative expression, and aesthetic literacy. Rehearsal times will be scheduled after auditions are completed. *Prerequisite:* Auditions on Sunday, October 7 from 1 to 4 p.m. in Strider Theater. Sign up for an audition slot *before* October 7 on sheets on the call board outside Runnals 104A. Contact Professor Conner for more information. *Three credit hours.* CONNER

WG483Jj Senior Honors Project *Noncredit.* THOMAS