Experiential education, involving "learning by doing" outside the classroom, is a robust part of the Williams curriculum. In addition to the use of traditional laboratory work in the natural sciences and studio work in art, faculty have been challenging students to become engaged more personally in the Williams curriculum through field work, whether in the form of research, sustained work on special projects, or through placement with community organizations. Courses which include experiential learning provide students with opportunities to encounter firsthand the issues that they read and study about, requiring them to apply academic learning to nonacademic settings and challenging them to use their experiences in those settings to think more critically and deeply about what they are studying. Experiential courses, as defined above, range from fully integrated off-campus programs such as the Williams-Mystic Maritime Studies Program to courses involving a small field research exercise or project. The amount and nature of the experiential component(s) varies according to the instructor’s judgment. More information can be found on the Center for Learning in Action website.

EXPE Experiential Education Courses

**AFR 212 (S) Jazz Theory and Improvisation I**

The theory and application of basic techniques in jazz improvisation and performance styles, including blues forms, swing, bebop, modally based composition, Afro-Cuban, etc. Appropriate for students with skill on their instrument and some basic theoretical knowledge. Knowledge of all key signatures, major/minor keys and modes, intervals, triads and basic seventh chords and their functions within keys. Students should be able to play and demonstrate these concepts on their instruments—competence on an instrument is essential (vocalists and drummers will be encouraged to study the piano). Pianists and guitarists should be able to sight read chords on a jazz lead sheet.

**Class Format:** alternates between lecture style exposition of theoretical topics and a master class where students will perform and be evaluated on assigned repertoire

**Requirements/Evaluation:** evaluation will be based on weekly assignments (e.g., harmonic analysis and exercises in transposition and transcription), a midterm, a transcription project and the end of semester concert, as well as improvement as measured in weekly class performance

**Extra Info:** this course will share aural skills labs with MUS 104a; students considering taking this course should consult the lab times and plan their schedules accordingly

**Prerequisites:** MUS 103 and/or permission of instructor; musical literacy required as per above description; private study on student's individual instruction strongly encouraged

**Enrollment Limit:** 15

**Enrollment Preferences:** prospective Music majors, then Jazz Ensemble members, then Music majors

**Expected Class Size:** 12

**Grading:** no pass/fail option, yes fifth course option

**Distributions:** (D2)

**Attributes:** EXPE Experiential Education Courses

Spring 2020

LAB Section: B2  Canceled
LAB Section: B4  Canceled
LAB Section: B3  Canceled
SEM Section: B1  Canceled

**AFR 214 (S) Jazz Theory and Improvisation II**

**Cross-listings:** MUS 204  AFR 214

Secondary Cross-listing
A continuation of MUS 104b, this course builds upon theoretical knowledge, performance and aural skills developed previously. Students will deal with more complex theoretical and performance issues, including the use of symmetric scales, strategies for chord reharmonization, pentatonic and hexatonic scale shapes, and Coltrane’s “Three Tonic” harmonic system.

**Class Format:** two weekly seminar meetings, alternating between theory and performance sessions

**Requirements/Evaluation:** weekly compositional, analysis, transcription or performance exercises and final transcription project

**Prerequisites:** MUS 104b or permission of instructor

**Enrollment Limit:** 12

**Enrollment Preferences:** Music majors and Jazz Ensemble members

**Expected Class Size:** 5-8

**Grading:** yes pass/fail option, yes fifth course option

**Distributions:** (D1)

This course is cross-listed and the prefixes carry the following divisional credit:

MUS 204 (D1) AFR 214 (D2)

**Attributes:** EXPE Experiential Education Courses

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**AMST 10 (W) New(ish) and Rare: Special Collections in the 20th century**

What makes relatively recent books and manuscripts worth preserving? Whose voices are missing from the library's collections? Students in this course will explore the market for 20th-century rare books and manuscripts and recommend items for Special Collections to purchase. We will spend our first two weeks exploring the library’s existing collections of 20th-century Americana, focusing on what makes these books and manuscripts valuable—not just in terms of their cost but their usefulness in supporting teaching and student research. We’ll explore the market for antiquarian books, and we’ll consider how social movements and historical events including second-wave feminism, workers’ strikes, and the civil rights era are documented in primary sources. Outside of class, students will spend additional hands-on time with rare materials in the Special Collections reading room. Students will also search printed and online catalogs from booksellers who specialize in 20th-century material to look for potential additions to our collections. Given a theoretical budget of $1000, each student will assemble a proposal to acquire a new collection of books and manuscripts for the Chapin Library or the College Archives. We’ll spend the final week of class presenting these proposals to the Chapin Librarian, who will approve a selection of items to purchase for our collections. Adjunct Instructor Bio: Anne Peale, Special Collections Librarian at Williams, graduated from Dartmouth College and studied Material Cultures and Book History at the University of Edinburgh; she recently completed her PhD in Historical Geography.

**Class Format:** afternoons

**Requirements/Evaluation:** final collection development proposal/report justifying rationale for acquisition of rare books and manuscripts

**Prerequisites:** none

**Enrollment Limit:** 12

**Grading:** pass/fail only

**Materials/Lab Fee:** $0

**Attributes:** EXPE Experiential Education Courses

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**AMST 101 (F)(S) America: the Nation and Its Discontents (DPE) (WS)**

America has always named something more than a geographical place; being "American" has always been about something more than political citizenship. This course is an introduction to the interdisciplinary study of American culture and the nation of the United States. We will focus on the workings of that culture and nation as they both shape and have been shaped by factors such as race, ethnicity, class, gender, sexuality, place, and religion. Over the semester, we will ask critical questions of a wide variety of materials: essays, novels, autobiographies, poems, photographs, films, music, visual art, architecture, urban plans, historical documents and legal texts. We critique notions of American exceptionalism, empire, power, citizenship, labor, borders, inequality, assimilation, aesthetic form, and the role of the U.S. and its products in the world.

**Class Format:** seminar

**Requirements/Evaluation:** total of 20 pages of writing: several short papers (2-3 pages), as well as several 5- to 7-page essays; drafts and revisions
Prerequisites: none
Enrollment Limit: 19
Enrollment Preferences: first- and second-year students
Expected Class Size: 19
Grading: no pass/fail option, no fifth course option
Distributions: (D2) (DPE) (WS)

Writing Skills Notes: This course satisfies the writing skills requirement in its close attention to the processes of writing, argumentation, and revision; and in the total number of pages of writing produced. Total of 20 pages of writing: several short papers (2-3 pages), as well as several 5- to 7-page essays; drafts and revisions are built into the assignment schedule.

Difference, Power, and Equity Notes: This course satisfies the DPE requirement in its constant interrogation of historical patterns of unequal access to power, wealth, citizenship, and education in the U.S., and in its recognition and analysis of forms of resistance to and corrections of such inequities.

Attributes: EXPE Experiential Education Courses

Fall 2019
SEM Section: 01  TR 9:55 am - 11:10 am  Dorothy J. Wang

Spring 2020
SEM Section: 01  MR 1:10 pm - 2:25 pm  Eli Nelson

AMST 113  (F)  The Feminist Poetry Movement  (DPE) (WS)

Cross-listings: ENGL 113  AMST 113  WGSS 113

Secondary Cross-listing

Feminist poetry and feminist politics were so integrated in the 1960s and 1970s in America that critical essays on poets, such as Adrienne Rich and Audre Lorde, appeared in the same handbook that listed such resources for women as rape crisis centers and health clinics. This course will map the crucial alliance between feminist politics (and its major cultural and political gains) and the feminist poetry movement that became a major "tool" for building, organizing, and theorizing second-wave feminism. In order to track this political and poetic revolution, we will take an interdisciplinary approach that brings together historical, critical, and literary documents (including archival ones) and visual products (through the Object Lab of the Williams College Art Museum) that recreate the rich context of the period and help us consider the important social nature of aesthetic production. At the center of the course will be writings of major poets of the period, as well as anthologies and feminist periodicals that published their work and created a significant forum and shared space for women to articulate the politics and poetics of change. These periodicals and anthologies will also help us track the diversity of the feminist poetry movement and its intersection with issues of race, class, ethnicity, and sexuality. Ultimately, we will want to consider how poetry serves as an important tool for thinking through questions of power and injustice and what role it plays in creating necessary imaginative space in the world for expression, critique, and change.

Class Format: seminar; discussion, some lecture, project work in archives and art gallery

Requirements/Evaluation: three analysis papers (4-5 pages), creative (1-2 pages), discussion posts (5 pages), curated final project (archival exhibit with 7-page paper), presentations

Prerequisites: none
Enrollment Limit: 19
Enrollment Preferences: none
Expected Class Size: 19
Grading: yes pass/fail option, yes fifth course option
Distributions: (D2) (DPE) (WS)

This course is cross-listed and the prefixes carry the following divisional credit:
ENGL 113 (D1) AMST 113 (D2) WGSS 113 (D2)

Writing Skills Notes: Writing skills taught through a series of assignments evenly spaced throughout the semester: weekly p/f discussion posts, three four-to-five-page graded papers, one creative assignment, and a final digital research project (10-page equivalent; peer reviewed). Students receive critical feedback on written assignments a week prior to due date through conferences and Google Docs and on final graded assignments within one
week with sufficient time between assignments to improve the next assignment.

**Difference, Power, and Equity Notes:** The course examines the effects of class, race, ethnicity, gender, and sexuality on both poetry and the movement and how women negotiated their differences within the movement, as well as in response to the dominant patriarchal culture. This course employs critical tools (feminist theory, archival research, poetics, close reading, comparative approaches) to help students question and articulate the social injustices that led to the poetry and poetics of the Women's Liberation Movement.

**Attributes:** AMST Critical and Cultural Theory Electives ENGL Criticism Courses EXPE Experiential Education Courses WGSS Racial Sexual + Cultural Diversity Courses WGSS Theory Courses

Fall 2019

SEM Section: 01    MWF 8:30 am - 9:45 am    Bethany Hicok

**AMST 221 (F) Introduction to Urban Studies: Shaping and Living the City**

**Cross-listings:** AMST 221 ENVI 221 LATS 220

**Secondary Cross-listing**

Generally, cities have been described either as vibrant commercial and cultural centers or as violent and decaying urban slums. In an effort to begin to think more critically about cities, this course introduces important topics in the interdisciplinary field of Urban Studies. Specifically, we will discuss concepts and theories used to examine the peoples and structures that make up cities: In what ways do socio-cultural, economic, and political factors affect urban life and development? How are cities planned and used by various stakeholders (politicians, developers, businesses, and residents)? How do people make meaning of the places they inhabit? We will pay particular attention to the roles of race, ethnicity, class, and gender in understanding and interpreting urban communities. Texts include works by anthropologists, historians, sociologists, cultural critics, cultural geographers, and literary writers.

**Class Format:** lecture/discussion

**Requirements/Evaluation:** evaluation will be based on attendance and class participation, several short writing assignments (1-2 pages), two creative group projects and presentations, a midterm essay (6-7 pages) and final essay (8-10 pages)

**Prerequisites:** none

**Enrollment Limit:** 20

**Enrollment Preferences:** first and second year students as well as American Studies majors and Latina/o Studies concentrators

**Expected Class Size:** 20

**Grading:** no pass/fail option, no fifth course option

**Distributions:** (D2)

This course is cross-listed and the prefixes carry the following divisional credit:

AMST 221 (D2) ENVI 221 (D2) LATS 220 (D2)

**Attributes:** AMST Comp Studies in Race, Ethnicity, Diaspora AMST Space and Place Electives ASAM Related Courses ENVI Humanities, Arts + Social Science Electives EXPE Experiential Education Courses GBST Urbanizing World Electives LATS Core Electives

Not offered current academic year

**AMST 236 (S) Making Things Visible: Adventures in Documentary Work**

**Cross-listings:** ENGL 237 ARTH 237 SOC 236 AMST 236

**Secondary Cross-listing**

Photography, like ethnography, is an art of looking carefully and taking notice. This course will explore the overlaps between documentary photography and field methods of social science, concentrating particularly on the genre in which the two intersect: the photo essay. The students will learn methods of visual narrative and storytelling, using techniques of interviewing, still photography, and video. Concurrently, we will explore a number of examples of investigative work that blend word and image. We will ask questions about the changing practices and expectations associated with the documentarian's role, and the evolving media in which such work can be presented. Lastly, we will discuss ethical questions that haunt documentary work, including issues of responsibility and politics of representation, as well as the perennial question of whether "objective representation" is even possible or desirable. Experience in photography and/or video is not required, but students will be expected to master basic technical skills in image acquisition and audio editing taught in a separate lab section. Students should also be prepared to interact extensively with
people in the community and spend a significant time off campus doing fieldwork.

Class Format: seminar

Requirements/Evaluation: full participation in discussions, weekly photographic assignments, a research journal, field materials, and an independent final project; in addition to substantial readings, students should be prepared to spend a significant time out of the classroom doing field work

Prerequisites: none

Enrollment Limit: 12

Enrollment Preferences: Anthropology and Sociology majors

Expected Class Size: 12

Grading: no pass/fail option, no fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:
ENGL 237 (D2) ARTH 237 (D1) SOC 236 (D2) AMST 236 (D2)

Attributes: EXPE Experiential Education Courses FMST Related Courses

Not offered current academic year

AMST 238  (F)  Zen and the Art of American Literature

Cross-listings: AMST 238  COMP 238  REL 228  ENGL 239

Secondary Cross-listing
In 1844, the Transcendentalist magazine, The Dial, published an excerpt from the Lotus Sutra, translated into English by Elizabeth Palmer Peabody. It was the first English-language version of any Buddhist text to be published in the United States. At the time, very few Americans knew the first thing about what Buddhism was, but now, a little over a century and a half later, Buddhist ideas and practices seem ubiquitous (available even in the form of apps like Headspace and Calm). In this class, we'll explore how Buddhism came to be the profoundly important cultural force in American life that it is today, looking particularly at the influence of Zen on American literature. We'll read an array of Buddhist-influenced literary texts, from the Beat poetry of the 1950s to novels like Middle Passage, A Tale for the Time Being, and Lincoln in the Bardo. But we'll also range far beyond the world of literature into a variety of other cultural domains in which Buddhism has had a deep impact, like environmentalism and deep ecology, Western psychotherapy, and Western attitudes towards death and dying. We'll also explore the role that Buddhism is playing in the fight against racism and racial injustice (from bell hooks to Black Lives Matter). And we'll engage in an experiential investigation of the benefits of incorporating contemplative practices like meditation into the classroom: students in the course will learn a variety of meditation techniques, and we'll spend some time each class practicing and reflecting upon those practices. Students will be expected to meditate outside of class as well (2-3 times per week) and keep a meditation journal. No prior experience with meditation is necessary. Just an open mind.

Class Format: lecture

Requirements/Evaluation: regular attendance, a weekly meditation journal, various informal in-class and take-home writing assignments, and a final 7- to 10-page essay

Prerequisites: any literature course at Williams or permission of the instructor

Enrollment Limit: 45

Enrollment Preferences: students will be asked to submit emails explaining why they want to take this course, which will be used to determine final enrollment; no first-years

Expected Class Size: 35

Grading: yes pass/fail option, yes fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:
AMST 238 (D2) COMP 238 (D1) REL 228 (D2) ENGL 239 (D1)

Attributes: ENGL Literary Histories C EXPE Experiential Education Courses

Fall 2019

LEC Section: 01  MW 7:00 pm - 8:15 pm  Bernard J. Rhie
AMST 241  (F)  Performing Masculinity in Global Popular Culture

Cross-listings:  WGSS 240  THEA 241  SOC 240  AMST 241  LATS 241

Secondary Cross-listing
This course examines popular cultural contexts, asking what it means to be a man in contemporary societies. We focus on the manufacture and marketing of masculinity in advertising, fashion, TV/film, theater, popular music, and the shifting contours of masculinity in everyday life, asking: how does political economy change the ideal shape, appearance, and performance of men? How have products - ranging from beer to deodorant to cigarettes -- had their use value articulated in gendered ways? Why must masculinity be the purview of "males" at all; how can we change discourses to better include performances of female masculinities, butch-identified women, and trans* men? We will pay particular attention to racialized, queer, and subaltern masculinities. Some of our case studies include: the short half-life of the boy band in the US and in Asia (e.g., J/K-Pop), hip hop masculinities at home and abroad, and the curious blend of chastity and homoeroticism that constitutes masculinity in the contemporary vampire genre. Through these and other examples, we learn to recognize masculinity as a performance shaped by the political economy of a given culture. The course includes a field trip to a drag performance in Northampton.

Class Format: seminar
Requirements/Evaluation: masculinity journal, mid-term essay, visual analyses of pop culture artifact, choice of final essay or 12 page final paper
Prerequisites: none
Enrollment Limit: 20
Enrollment Preferences: in the event of over-enrollment, a short statement of interest will be solicited
Expected Class Size: 20
Grading: yes pass/fail option, yes fifth course option
Distributions: (D2)
This course is cross-listed and the prefixes carry the following divisional credit:
WGSS 240 (D2) THEA 241 (D2) SOC 240 (D2) AMST 241 (D2) LATS 241 (D2)
Attributes: EXPE Experiential Education Courses  FMST Related Courses  LATS Comparative Race + Ethnic Studies Electives
Not offered current academic year

AMST 252  (S)  Puerto Rico and its Diaspora

Cross-listings:  AMST 252  LATS 252

Secondary Cross-listing
On September 20, 2018, Maria—a category four hurricane made landfall on Puerto Rico. The most powerful storm to hit the island since 1932, Maria caused widespread catastrophic damage on a land already suffering from the devastating effects of a decades-long economic recession. Three months after the hurricane, half the island remained without power, water service yet to be reestablished in many areas, and aid distribution inadequate and inconsistent. The hurricane and its aftermath brought mainstream U.S. attention to Puerto Rico and its diaspora, while simultaneously calling attention to the island's status and relationship to the United States. This hybrid onsite-Skype-travel course is for students interested in learning about the historical, social, and political relationship between Puerto Rico and the United States. We will examine, for example, the political status of Puerto Rico, migration, race, social movements, and expressive cultural forms that have emerged as a result of this asymmetrical relationship. Through the study of the impact and legacy of U.S. policies on the island, we will also consider how the fiscal and humanitarian crisis and proposed solutions affect the daily collective lives of the people in the U.S. territory and the diaspora. This course is a unique collaboration between Vassar, Williams, and the UPR. To enroll in this course, students must commit to participating in an alternative spring break/community engagement project in Puerto Rico and flexible with possible changes in class time when Skyping with students from the University of Puerto Rico. We will gather in Puerto Rico to meet with peers from UPR and for an alternative spring break collaboration, interfacing with various community organizations that have taken up vital social, medical, and economic roles vacated by the United States. Taller Salud, PECES, and Casa Pueblo are among the organizations in Puerto Rico that students may work with as a part of the course's community engagement component.

Class Format: seminar; to enroll in this course, students must commit to participating in an alternative spring break/community engagement learning project in Puerto Rico
Requirements/Evaluation: class participation, short writing exercises, group work/project, a midterm essay (5-7 pages), and a final essay (10-12 pages)
Prerequisites: students should have some fluency with the Spanish language
Enrollment Limit: 8
**Enrollment Preferences:** should be first- and second-years, students considering an American Studies major or Latina/o Studies concentration; AMST majors and LATS concentrators.

**Expected Class Size:** 8

**Grading:** no pass/fail option, no fifth course option

**Distributions:** (D2)

This course is cross-listed and the prefixes carry the following divisional credit:

AMST 252 (D2) LATS 252 (D2)

**Attributes:** AMST Comp Studies in Race, Ethnicity, Diaspora  AMST Space and Place Electives  EXPE Experiential Education Courses  LATS Core Electives

Not offered current academic year

**AMST 259 (S) New England Environmental History** (WS)

**Cross-listings:** ENVI 259  AMST 259  HIST 259

**Secondary Cross-listing**

Have you ever wondered why there are few old-growth forests in New England? What Williamstown looked like before Williams was founded? How ideas about environmental preservation have changed over time? These are some of the questions we will explore in this course, which introduces students to the discipline of Environmental History through New England examples. During the semester we will: (1) read and discuss scholarship on the environmental history of New England and the world; (2) use case studies and field trips to examine how past environments are represented in museum exhibits, digital projects, and physical landscapes; (3) Develop a research paper based on original archival research

**Class Format:** seminar

**Requirements/Evaluation:** several short essays, final project

**Prerequisites:** ENVI 101 or permission of the instructor

**Enrollment Limit:** 19

**Enrollment Preferences:** Environmental Studies concentrators

**Expected Class Size:** 15

**Grading:** no pass/fail option, yes fifth course option

**Distributions:** (D2) (WS)

This course is cross-listed and the prefixes carry the following divisional credit:

ENVI 259 (D2) AMST 259 (D2) HIST 259 (D2)

**Writing Skills Notes:** Six response papers for which the instructor will provide consistent feedback on writing skills as well as content. Sequenced writing workshops that lead toward a final research paper.

**Attributes:** ENVI Humanities, Arts + Social Science Electives  EVST Culture/Humanities  EXPE Experiential Education Courses  HIST Group F  Electives - U.S. + Canada

Not offered current academic year

**AMST 302 (F) Environmental Planning Workshop: Community-Based Experience**

**Cross-listings:** ENVI 302  AMST 302

**Secondary Cross-listing**

This interdisciplinary, experiential workshop introduces students to the field of planning through community-based projects. Environmental Planning encompasses many disciplines pertaining to the natural and built landscape such as city planning, ecological design, climate resiliency, natural resource planning, landscape architecture, agricultural and food systems, walkable neighborhood design, energy planning, and community development, to name a few. In this workshop, students regularly get out of the classroom and gain direct experience working in the greater Berkshire region. The class is organized into two parts. Part 1 involves reading and discussion of the planning literature: history, theory, policy, ethics, and legal framework, site visits, and concludes with a design project. Part 2 focuses on hands-on field work tackling an actual planning project under the guidance of a community partner. Small teams of students, working in conjunction with a client in the region and under supervision of the instructor, conduct a planning project using all the tools of a planner, including interviews, survey research, site visits, primary research, mapping, and site design and other activities as demanded by the particular project. The project work draws on students' academic training and extracurricular activities, and
applies creative, design thinking techniques to solve thorny problems. The midterm assignment is a creative landscape/site design project. The lab sections include field trips, GIS mapping labs, project-related skill sessions, public meetings, and team project work. The course includes several class presentations and students will gain skills in public speaking, preparing presentations, interviewing, survey research, report-writing, design, and teamwork. The class culminates in an on-site public presentation of each team's planning study.

Class Format: seminar discussion/group workshop/project lab

Requirements/Evaluation: short writing assignments, class discussion, team projects, class presentations, final group public presentation and report

Prerequisites: ENVI 101 or permission of instructor; open to juniors and seniors only

Enrollment Limit: 16

Enrollment Preferences: Environmental Studies majors and concentrators

Expected Class Size: 16

Grading: no pass/fail option, yes fifth course option

Unit Notes: required course for Environmental Studies major and concentration

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 302 (D2) AMST 302 (D2)

Attributes: AMST Space and Place Electives  ENVI Core Courses  EVST Core Courses  EXPE Experiential Education Courses

Fall 2019
SEM Section: 04  TR 11:20 am - 12:35 pm  Henry W. Art
LAB Section: 02  Cancelled
LAB Section: 05  T 1:00 pm - 4:00 pm  Henry W. Art
SEM Section: 01  TR 11:20 am - 12:35 pm  Sarah Gardner
LAB Section: 03  R 1:00 pm - 4:00 pm  Sarah Gardner

AMST 331  (S) New Orleans as Muse: Literature, Music, Art, Film and Theatre in the City

Cross-listings: AMST 331  COMP 330  THEA 330

Secondary Cross-listing

This course will look at the representation of a city and how it has influenced artists. Students will read, listen to, and view a selection of the literature, music, film and art that represent the city from both pre-flooding and current re-building. Reading selections will include examples such as Harper's Weekly (Lafradio Hearn), The Awakening (Kate Chopin), A Streetcar Named Desire (Tennessee Williams), The Moviegoer (Walker Percy), Why New Orleans Matters (Tom Piazza), A Confederacy of Dunces (John Kennedy O'Toole), New Orleans Sketches (William Faulkner), One Dead in the Attic (Chris Rose). Film examples such as A Streetcar Named Desire, An Interview with a Vampire, The Curious Case of Benjamin Button, When the Levees Broke, Treme, Waiting for Godot (in the 9th Ward). Music selections from examples such as Louis Moreau Gottschalk, Jelly Roll Morton, Louis Armstrong, Fats Domino, The Meters, Kermit Ruffins and the Rebirth Brass Band. Art selections will come from a variety of sources such as THE OGDEN Museum of Southern Art and Prospect 1, 2, & 3.

Class Format: seminar

Requirements/Evaluation: will be on active participation, weekly response essays on film viewings, 2 short essays on class topics, a final paper and a contemporary creative project/performance

Prerequisites: none

Enrollment Limit: 12

Enrollment Preferences: none

Expected Class Size: 10

Grading: yes pass/fail option, yes fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:
AMST 331 (D2) COMP 330 (D1) THEA 330 (D1)
**ANSO 205 (S) Ways of Knowing**

An applied exploration of how one makes sense of the social world through fieldwork. Some of the key questions of the course are: What are the philosophical and epistemological underpinnings of social inquiry? How does one frame intellectual problems and go about collecting, sifting, and assessing field materials? What are the uses and limits of statistical data? What is the importance of history to sociological and anthropological research? How can one use archival and other documentary materials to enrich ethnographic research? What are the empirical limits to interpretation? What is the relationship between empirical data and the generation of social theory? How does the social organization of social research affect one’s inquiry? What are the typical ethical dilemmas of fieldwork and of other kinds of social research? How do researchers’ personal biographies and values shape their work? In the first half of the course, we will approach these problems concretely rather than abstractly through a series of case studies, drawing upon the field experiences of departmental faculty and guest speakers from different professional backgrounds. The second half of the course will be dedicated to a hands-on training in field methods, in which the students will design and undertake their own pilot field projects.

**Class Format:** seminar

**Requirements/Evaluation:** full-participation in the seminar, several short papers, an independent ethnographic project and a final research proposal

**Prerequisites:** ANTH 101 or SOC 101 or permission of instructor

**Enrollment Limit:** 25

**Expected Class Size:** 25

**Grading:** yes pass/fail option, yes fifth course option

**Distributions:** (D2)

**Attributes:** EVST Methods Courses EXPE Experiential Education Courses

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**ANSO 402 (S) Senior Seminar**

This capstone seminar combines intensive discussion and individual research. Half of the course will be dedicated to the discussion of current debates central to the concerns of both anthropology and sociology, such as the ethics of conducting fieldwork, humanitarianism and relief, global public health, poverty and the city, and environmental conservation. Among the topics discussed, the ethical dilemmas of conducting ethnography will be a common theme. The second half of the course will be devoted to independent individual original projects which should have a major ethnographic component. At the end of the course, students will present their projects to the seminar.

**Class Format:** seminar

**Requirements/Evaluation:** full participation, major research project and paper (30 pages), class presentation; weekly short responses

**Prerequisites:** only senior majors in Anthropology and Sociology, or permission of instructor

**Enrollment Limit:** none

**Expected Class Size:** 12

**Grading:** no pass/fail option, no fifth course option

**Distributions:** (D2)

**Attributes:** EXPE Experiential Education Courses

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**Spring 2020

SEM Section: 01    R 1:10 pm - 3:50 pm    Deborah A. Brothers

**ANSO 205 (S) Ways of Knowing**

**Spring 2020

SEM Section: 01    W 1:10 pm - 3:50 pm    Ben Snyder

**ANSO 402 (S) Senior Seminar**
How do medical anthropologists examine and interpret health, disease, and illness today, in order to elucidate the biosocial determinants of health and health-seeking behaviors? We are particularly interested in how medical anthropologists employ ethnographic techniques including interviewing, surveys, and observant participation/participant observation—also known as ‘deep hanging out.’ Through experiential inquiries, we investigate the systemic health inequalities that are produced by socio-economic hierarchies, while paying particular attention to the most marginalized and vulnerable groups. Through the semester, students pursue their own individual, fieldwork-based projects on campus with students & staff. Our goal is a better understanding of the limits and strengths of ethnographic inquiry as we explore the challenges of collaborative research into health and inequality in a local world structured by diverse forces, actors, and motives. We consider how medical anthropologists tell stories that describe and influence the ways that patients and providers respond to a dialogic quest for health and well-being within a world structured by social inequality and suffering; interpret the biological, socio-cultural, and behavioural determinants of health at individual and population levels and seeks to mitigate the ways that health inequities are produced by social inequality and unequal access to health resources; understand biomedicine and other medical systems as scientific and cultural discourses that project their own rationalities and biases even as they try to improve health outcomes.

Class Format: seminar

Requirements/Evaluation: four fieldnotes, weekly class discussion and writing exercises, final presentation on ethnographic project

Prerequisites: none

Enrollment Limit: 19

Enrollment Preferences: Anthropology, Sociology, Women's, Gender and Sexuality Studies majors; Public Health, Science and Technology Studies concentrators

Expected Class Size: 19

Grading: no pass/fail option, no fifth course option

Distributions: (D2) (DPE)

This course is cross-listed and the prefixes carry the following divisional credit:

WGSS 371 (D2) ANTH 371 (D2) STS 370 (D2)

Difference, Power, and Equity Notes: This class examines the intersection of race, gender, class, and sexuality in structuring health outcomes and access to health resources. It theorizes the dynamics of race, gender, and class in shaping patient/provider encounters and efforts to ‘improve’ health outcomes within contexts of structural violence (poverty, racism, and sexism) and social suffering.

Attributes: EXPE Experiential Education Courses PHLH Methods in Public Health

Fall 2019

SEM Section: 01 W 1:10 pm - 3:50 pm Kim Gutschow

ARTH 237 (S) Making Things Visible: Adventures in Documentary Work

Cross-listings: ENGL 237 ARTH 237 SOC 236 AMST 236

Secondary Cross-listing

Photography, like ethnography, is an art of looking carefully and taking notice. This course will explore the overlaps between documentary photography and field methods of social science, concentrating particularly on the genre in which the two intersect: the photo essay. The students will learn methods of visual narrative and storytelling, using techniques of interviewing, still photography, and video. Concurrently, we will explore a number of examples of investigative work that blend word and image. We will ask questions about the changing practices and expectations associated with the documentarian's role, and the evolving media in which such work can be presented. Lastly, we will discuss ethical questions that haunt documentary work, including issues of responsibility and politics of representation, as well as the perennial question of whether "objective representation" is even possible or desirable. Experience in photography and/or video is not required, but students will be expected to master basic technical skills in image acquisition and audio editing taught in a separate lab section. Students should also be prepared to interact extensively with people in the community and spend a significant time off campus doing fieldwork.

Class Format: seminar

Requirements/Evaluation: full participation in discussions, weekly photographic assignments, a research journal, field materials, and an independent final project; in addition to substantial readings, students should be prepared to spend a significant time out of the classroom doing field work.
Prerequisites: none
Enrollment Limit: 12
Enrollment Preferences: Anthropology and Sociology majors
Expected Class Size: 12
Grading: no pass/fail option, no fifth course option
Distributions: (D2)
This course is cross-listed and the prefixes carry the following divisional credit:
ENGL 237 (D2) ARTH 237 (D1) SOC 236 (D2) AMST 236 (D2)
Attributes: EXPE Experiential Education Courses FMST Related Courses
Not offered current academic year

ARTH 274 (S) Chinese Calligraphy: Theory and Practice
Cross-listings: ARTH 274 ARTS 274 ASST 274
Primary Cross-listing
Beginning in the fourth century, Chinese calligraphy has remained one of the highest art forms in China and in East Asia generally, practiced by the literati, or highly erudite scholars. This course has two components: art history and studio practice. The first offers students an opportunity to acquire an understanding of theoretical and aesthetic principles of Chinese calligraphy. It also examines the religious, social, and political functions of Chinese calligraphy in ancient and contemporary China. Students will also have an opportunity to investigate contemporary artists, both Eastern and Western, whose works are either inspired or influenced by Chinese calligraphy, and those whose works are akin to Chinese calligraphy in their abstraction. Studio practice allows students to apply theories to creating beautiful writing, or calligraphy (from Greek kallos “beauty” + graphe “writing”). This course can be taken as an Art History, a Studio Art, or Asian Studies course.
Class Format: lecture/studio instruction
Requirements/Evaluation: weekly assignments, a midterm, one short paper, oral presentations, participation in class discussion, a final project (artistic or scholarly), class attendance, film screening
Prerequisites: none
Enrollment Limit: 12
Grading: yes pass/fail option, yes fifth course option
Unit Notes: this course can count toward the Art History or Studio major
Materials/Lab Fee: TBD lab fee charged to term bill
Distributions: (D1)
This course is cross-listed and the prefixes carry the following divisional credit:
ARTH 274 (D1) ARTS 274 (D1) ASST 274 (D1)
Attributes: EXPE Experiential Education Courses GBST East Asian Studies Electives

Spring 2020
LEC Section: 01 W 1:10 pm - 3:50 pm Ju-Yu Scarlett Jang

ARTH 508 (S) Art and Conservation: An Inquiry into History, Methods, and Materials
This course is designed to acquaint students with observation and examination techniques for works of art, artifacts, and decorative arts objects; give them an understanding of the history of artist materials and methods; and familiarize them with the ethics and procedures of conservation. This is not a conservation training course but is structured to provide a broader awareness for those who are planning careers involving work with cultural objects. Sessions will be held at the Williamstown Art Conservation Center, Williams College, the Clark Art Institute, and the Governor Nelson A. Rockefeller Empire State Plaza Art Collection in Albany. Examination questions may be formulated from exhibitions at these locations. Six exams will be given. Exam scores will be weighed in proportion to the number of sessions covered by the exam (e.g., the paintings exam, derived from six sessions of the course, will count as 25% of the final grade).
Class Format: slide presentations, lectures, gallery talks, hands-on opportunities, technical examinations, and group discussions
**ARTS 16 (W) Glass and Glassblowing**

**Cross-listings:** ARTS 16 CHEM 16

**Secondary Cross-listing**

This course provides an introduction to both a theoretical consideration of the glassy state of matter and the practical manipulation of glass. We do flameworking with hand torches for at least 12 hours per week. While no previous experience is required, students with patience, good hand-eye coordination, and creative imagination will find the course most rewarding. The class is open to both artistically and scientifically oriented students.

**Note:** if you are required to participate in a sustaining language program during Winter Study, this course meets at the same time.

**Requirements/Evaluation:** class participation, exhibition of glass projects, a 10-page paper, and a presentation to the class

**Prerequisites:** none

**Enrollment Limit:** 10

**Enrollment Preferences:** preference is given to juniors, sophomores, and those who express the most and earliest interest and enthusiasm by email to Professor Thoman

**Grading:** pass/fail only

**Materials/Lab Fee:** $75

**Distributions:** (D3)

**This course is cross-listed and the prefixes carry the following divisional credit:**

ARTS 16 (D3) CHEM 16 (D3)

**Attributes:** EXPE Experiential Education Courses

**Not offered current academic year**

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**ARTS 274 (S) Chinese Calligraphy: Theory and Practice**

**Cross-listings:** ARTH 274 ARTS 274 ASST 274

**Secondary Cross-listing**

Beginning in the fourth century, Chinese calligraphy has remained one of the highest art forms in China and in East Asia generally, practiced by the literati, or highly erudite scholars. This course has two components: art history and studio practice. The first offers students an opportunity to acquire an understanding of theoretical and aesthetic principles of Chinese calligraphy. It also examines the religious, social, and political functions of Chinese calligraphy in ancient and contemporary China. Students will also have an opportunity to investigate contemporary artists, both Eastern and Western, whose works are either inspired or influenced by Chinese calligraphy, and those whose works are akin to Chinese calligraphy in their abstraction. Studio practice allows students to apply theories to creating beautiful writing, or calligraphy (from Greek kallos “beauty” + graphe “writing”). This course can be taken as an Art History, a Studio Art, or Asian Studies course.

**Class Format:** lecture/studio instruction

**Requirements/Evaluation:** weekly assignments, a midterm, one short paper, oral presentations, participation in class discussion, a final project (artistic or scholarly), class attendance, film screening

**Prerequisites:** none

**Enrollment Limit:** 12
ARTS 385 (S) The Sculptural Costume and It’s Performance Potential

Cross-listings: ARTS 385 THEA 385

Primary Cross-listing

A team-taught studio art / theatre course designed to explore the rich territory of the wearable sculpture and its generative role in art and performance. From ritual costumes, to Carnival, to Dada performance, to Bauhaus dance, to Hello Olícica's Parangole, and Nick Cave's sound-suits, there has been a rich tradition where sculpture and costumes merge. Students will study artists who have bridged distinctions between the theatrical costume and the sculptural object as well as produce hybrid objects that explore the range of possibilities within this collaborative practice. The students will produce object-costumes involving a wide variety of media, from recycled materials to new technologies, while striving to develop their individual artistic voices.

Class Format: studio

Requirements/Evaluation: evaluation will be based on the quality of work produced, the depth and quality of the content and process, participation in critiques, and attendance

Prerequisites: successful completion of any 200-level course in art studio or performing arts, or permission of the instructor

Enrollment Limit: 14

Enrollment Preferences: Art and Theater majors

Expected Class Size: 12

Grading: no pass/fail option, no fifth course option

Materials/Lab Fee: $125

Distributions: (D1)

This course is cross-listed and the prefixes carry the following divisional credit:

ARTS 385 (D1) THEA 385 (D1)

Attributes: EXPE Experiential Education Courses

Not offered current academic year

ASST 274 (S) Chinese Calligraphy: Theory and Practice

Cross-listings: ARTH 274 ARTS 274 ASST 274

Secondary Cross-listing

Beginning in the fourth century, Chinese calligraphy has remained one of the highest art forms in China and in East Asia generally, practiced by the literati, or highly erudite scholars. This course has two components: art history and studio practice. The first offers students an opportunity to acquire an understanding of theoretical and aesthetic principles of Chinese calligraphy. It also examines the religious, social, and political functions of Chinese calligraphy in ancient and contemporary China. Students will also have an opportunity to investigate contemporary artists, both Eastern and Western, whose works are either inspired or influenced by Chinese calligraphy, and those whose works are akin to Chinese calligraphy in their abstraction. Studio practice allows students to apply theories to creating beautiful writing, or calligraphy (from Greek kallos “beauty” + graphe “writing”). This course can be taken as an Art History, a Studio Art, or Asian Studies course.

Class Format: lecture/studio instruction
**Requirements/Evaluation:** weekly assignments, a midterm, one short paper, oral presentations, participation in class discussion, a final project (artistic or scholarly), class attendance, film screening

**Prerequisites:** none

**Enrollment Limit:** 12

**Grading:** yes pass/fail option, yes fifth course option

**Unit Notes:** this course can count toward the Art History or Studio major

**Materials/Lab Fee:** TBD lab fee charged to term bill

**Distributions:** (D1)

This course is cross-listed and the prefixes carry the following divisional credit:

ARTH 274 (D1) ARTS 274 (D1) ASST 274 (D1)

Attributes: EXPE Experiential Education Courses GBST East Asian Studies Electives

Spring 2020

**LEC Section:** 01 W 1:10 pm - 3:50 pm Ju-Yu Scarlett Jang

**BIOL 11 (W) Teaching 3rd Grade about Zebrafish--BioEYES**

BioEYES brings tropical fish to 3rd-grade classrooms in Williamstown, North Adams, and Lanesborough Elementary schools, in a science teaching workshop. Elementary school students will breed fish at the school, then study their development and pigmentation during one week. Williams students will adapt BioEYES lesson plans to the science curriculum for the schools we visit, work with classroom teachers to introduce concepts in genetics and development, help the 3rd-grade students in the classroom, and assess elementary student learning. No zebrafish experience is necessary; during the first week, students will learn to set up fish matings and learn about embryonic development and the genetics of fish pigmentation as well as practice teaching the 3rd-grade BioEYES lesson plans with hands-on experiments using living animals. In the subsequent three weeks, students will present lessons at the schools and review assessment data.  Adjunct Bio: Jennifer Swoap, Associate Director at The Center for Learning in Action, is a former third-grade teacher. She currently coordinates Williams Elementary Outreach, where Williams students teach and mentor K-6 students at area elementary schools.  Adjunct Bio: Renee Schiek currently serves as the liaison between Lanesborough Elementary School and the Williams Elementary Outreach, where Williams students teach hands-on science lessons at area elementary schools. She is a frequent substitute at Lanesborough ES and holds a degree in mechanical engineering.

**Requirements/Evaluation:** final project or presentation; review of pre- and post-survey assessments

**Prerequisites:** none

**Enrollment Limit:** 14

**Enrollment Preferences:** preference to seniors

**Grading:** pass/fail only

**Materials/Lab Fee:** $0

Attributes: EXPE Experiential Education Courses

Not offered current academic year

**BIOL 13 (W) Introduction to Animal Tracking**

This course is an introduction to the ancient art and science of animal tracking, and its use for ecological inventory. Participants will deepen their skills as naturalists, their awareness of the natural world, and discover that even the greens at Williams College are abundant with wildlife. Students will have field time in class at Hopkins Forest as well as through independent study at a convenient outdoor location of each student's choosing. Basic concepts of animal tracking, its history and use by indigenous people throughout the world will be discussed through video and slide show. Students are required to create journals and site maps of Hopkins and their personal study areas, including all major features of the landscape, flora and fauna activity. Students will be expected to visit their study spots everyday for a minimum of 1 hour of tracking journaling and data collection. The course will meet twice a week for 4-5 hour sessions, primarily in the field. One field trip to a nearby state forest is scheduled for the fourth or fifth class meeting day. This day may extend to 4:00. Students are expected to have appropriate outdoor gear for winter.  Adjunct Bio: Dan Yacobellis is a local naturalist and wildlife tracker who has explored forest and field for more than 20 years. He teaches courses on wilderness skills and tracking at nature education centers in Massachusetts and New York as well as his own independent programs.
BIOL 211  (S)  Paleobiology

Cross-listings:  BIOL 211  GEOS 212

Secondary Cross-listing

The fossil record is a direct window into the history of life on Earth and contains a wealth of information on evolution, biodiversity, and climate change. This course investigates the record of ancient life forms, from single-celled algae to snails to dinosaurs. In addition to the intellectual discovery of fossils as organic relics and the ways in which fossils have been used to support conflicting views on nature, geologic time, and evolution, we will cover a range of topics central to modern paleobiology. These include: how the fossil record informs our understanding of evolutionary processes including speciation; the causes and consequences of mass extinctions; how fossils help us tell time and reconstruct the Earth’s climactic and tectonic history; statistical analysis of the fossil record to reconstruct biodiversity through time; analysis of fossil morphology to recreate the biomechanics of extinct organisms; and using fossil communities to reconstruct past ecosystems. Laboratory exercises will take advantage of Williams' fossil collections as well as published datasets to provide a broad understanding of fossils and the methods we use to study the history of life on Earth, including using the programming language R (no previous experience is required). We will also view a diversity of fossils in their geologic and paleo-environmental context on our field trip to Eastern New York. This course is in the Sediments and Life group for the Geosciences major.

Class Format: lecture/laboratory; field trip to the the Paleozoic of New York State

Requirements/Evaluation: lab assignments, short quizzes and writing assignments, and a final exam

Prerequisites: any 100-level GEOS course or BIOL 102, 203 or 205

Enrollment Limit: 15

Enrollment Preferences: sophomore and junior GEOS majors

Expected Class Size: 12

Grading: no pass/fail option, no fifth course option

Unit Notes: does not satisfy the distribution requirement for the Biology major

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

BIOL 211 (D3) GEOS 212 (D3)

Attributes: EXPE Experiential Education Courses  GEOS Group B Electives - Sediments + Life  MAST Interdepartmental Electives

Spring 2020

LAB Section: 02  W 1:00 pm - 4:00 pm  Phoebe A. Cohen

LEC Section: 01  TR 9:55 am - 11:10 am  Phoebe A. Cohen

BIOL 220  (S)  Field Botany and Plant Natural History

Cross-listings:  ENVI 220  BIOL 220

Primary Cross-listing

This field-lecture course covers the evolutionary and ecological relationships among plant groups represented in our local and regional flora. Lectures focus on the evolution of the land plants, the most recent and revolutionary developments in plant systematics and phylogeny, characteristics of plant families, the cultural and economic uses of plants and how plants have shaped our world. The labs cover field identification, natural history and the
ecology of local species.

**Class Format:** lecture and both field and indoor laboratories

**Requirements/Evaluation:** based on two hour exams, field quizzes, a final project, and a final exam

**Prerequisites:** none

**Enrollment Limit:** 30

**Enrollment Preferences:** Biology majors, and Environmental Studies majors & concentrators

**Expected Class Size:** 24

**Grading:** no pass/fail option, yes fifth course option

**Unit Notes:** satisfies the distribution requirement for the Biology major

**Materials/Lab Fee:** there is a charge for the lab manual; the sketchbook and hand lens can be self-provided or purchased from the department

**Distributions:** (D3)

**This course is cross-listed and the prefixes carry the following divisional credit:**

ENVI 220 (D3) BIOL 220 (D3)

**Attributes:** ENVI Natural World Electives  EVST Living Systems Courses  EXPE Experiential Education Courses  PHLH Nutrition,Food Security+Environmental Health

Spring 2020

LAB Section: 03  W 1:00 pm - 4:00 pm  Joan Edwards

LEC Section: 01  MWF 9:00 am - 9:50 am  Joan Edwards

LAB Section: 02  T 1:00 pm - 4:00 pm  Joan Edwards

**BIOL 231  (F)(S)  Marine Ecology**

**Cross-listings:** BIOL 231  MAST 311

**Secondary Cross-listing**

Using the principles of evolutionary biology and experimental ecology, this course examines the processes that control the diversity, abundance and distribution of marine organisms. Major marine communities, including estuaries, the rocky shore, sandy beaches, salt marshes, coral reefs, and the deep sea are discussed in detail.

**Class Format:** lecture/laboratory, including coastal and near-shore field trips, 10 days offshore, and a laboratory or field research project

**Requirements/Evaluation:** two tests, a research project, and a presentation

**Extra Info:** offered only at Mystic Seaport

**Prerequisites:** BIOL 101 or GEOS/MAST 104, or permission of instructor

**Grading:** yes pass/fail option, yes fifth course option

**Distributions:** (D3)

**This course is cross-listed and the prefixes carry the following divisional credit:**

BIOL 231 (D3) MAST 311 (D3)

**Attributes:** ENVI Natural World Electives  EVST Living Systems Courses  EXPE Experiential Education Courses

Fall 2019

LEC Section: 01  TBA  Tim J. Pusack

Spring 2020

LEC Section: 01  TBA  Tim J. Pusack

**BIOL 302  (F)  Communities and Ecosystems  (QFR)**

**Cross-listings:** ENVI 312  BIOL 302

**Primary Cross-listing**
An advanced ecology course that examines how species interact with each other and their environment and how communities are assembled. This course emphasizes phenomena that emerge in complex ecological systems, building on the fundamental concepts of population biology, community ecology, and ecosystem science. This foundation will be used to understand specific topics relevant to conservation including invasibility and the functional significance of diversity for ecosystem stability and processes. Lectures and labs will explore how to characterize the emergent properties of communities and ecosystems, and how theoretical, comparative, and experimental approaches are used to understand their structure and function.

The lab component of this course will emphasize hypothesis-oriented field experiments as well as "big-data" analyses using existing data sets. The laboratory component of the course will culminate with a self-designed independent or group project.

Class Format: lecture/laboratory, six hours a week

Requirements/Evaluation: evaluation will be based on lab reports, a midterm exam, a term project presentation, and a final project paper

Prerequisites: BIOL/ENVI 203 or 220

Enrollment Limit: 28

Enrollment Preferences: Biology majors and Environmental Studies majors and concentrators

Expected Class Size: 24

Grading: yes pass/fail option, yes fifth course option

Unit Notes: satisfies the distribution requirement for the Biology major

Distributions: (D3) (QFR)

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 312 (D3) BIOL 302 (D3)

Attributes: ENVI Natural World Electives EVST Living Systems Courses EXPE Experiential Education Courses

Fall 2019

LAB Section: 02 T 1:00 pm - 4:00 pm Manuel A. Morales

LAB Section: 03 W 1:00 pm - 4:00 pm Manuel A. Morales

LEC Section: 01 TR 9:55 am - 11:10 am Manuel A. Morales

CHEM 13 (W) Ultimate Wellness: Concepts for a Happy Healthy Life

This course provides an opportunity to drastically improve your life by introducing concepts that can start making a difference in the way you feel today! We will approach nutrition, lifestyle, and happiness from a holistic perspective. Students will learn how to tune out mixed media messages and look within to find ultimate health and wellness. Topics include: Ayurveda, preventative medicine, mindfulness and meditation, food intolerance awareness, healthy eating and meal planning, deconstructing cravings and overcoming sugar addiction, and finding your happiness. Evaluation will be based on completion of assignments, class participation, reflective 5-page paper, creative project, and final presentation that demonstrates a level of personal growth. After signing up for this course please email Nicole at nicole@zentreewellness.com with a brief statement describing your interest in the course and what you hope to achieve in it. In the event of over-subscription, these statements will be used in the selection process. We will meet twice a week for three-hour sessions as a group. The course will include two individual sessions—an initial health assessment plus an additional session designed to personalize the course and assist the student in applying the learned techniques. Books required for this class may include: Integrative Nutrition: Feed Your Hunger For Health and Happiness by Joshua Rosenthal, Food Rules: An Eaters Manual by Michael Pollan, Mind Over Medicine: Scientific Proof That You Can Heal Yourself by Lissa Rankin, and The Mindful Twenty-Something by Holly Rogers. Adjunct Bio: Nicole Anagnos is health coach and director at Zen Tree Wellness in Williamstown. She is co-founder of the organic skin care company, KU Organic Beauty. She also holds a master's degree in education.

Requirements/Evaluation: short paper and final project or presentation

Prerequisites: none

Enrollment Limit: 15

Enrollment Preferences: email statement of interest to nicole@zentreewellnesscom

Grading: pass/fail only

Materials/Lab Fee: approximately $75 for books

Attributes: EXPE Experiential Education Courses
CHEM 16 (W) Glass and Glassblowing

Cross-listings: ARTS 16 CHEM 16

Primary Cross-listing

This course provides an introduction to both a theoretical consideration of the glassy state of matter and the practical manipulation of glass. We do flameworking with hand torches for at least 12 hours per week. While no previous experience is required, students with patience, good hand-eye coordination, and creative imagination will find the course most rewarding. The class is open to both artistically and scientifically oriented students. Note: if you are required to participate in a sustaining language program during Winter Study, this course meets at the same time.

Requirements/Evaluation: class participation, exhibition of glass projects, a 10-page paper, and a presentation to the class

Prerequisites: none

Enrollment Limit: 10

Enrollment Preferences: preference is given to juniors, sophomores, and those who express the most and earliest interest and enthusiasm by email to Professor Thoman

Grading: pass/fail only

Materials/Lab Fee: $75

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

ARTS 16 (D3) CHEM 16 (D3)

Attributes: EXPE Experiential Education Courses

Not offered current academic year

CHEM 22 (W) Introduction to Research in Environmental Analytical Chemistry

Representative projects include: Analysis of sediment and fish samples collected from the Hoosic River drainage basin for contamination with polychlorinated biphenyls (PCBs) and soil, plant and aquatic animal samples from southern Vermont for perfluorooctanoic acid (PFOA) and its chemical relatives. This project focuses on techniques used in environmental analysis including trace-level determination of persistent organic pollutants by GC-MS and/or LC-MS.

Class Format: mornings

Requirements/Evaluation: a 10-page written report

Prerequisites: variable, depending on the project (at least CHEM 151) and permission of the Dept. Since projects involve work in faculty research labs, interested students must consult with one or more of the faculty instructors and with the Department Chair

Enrollment Limit: POI

Enrollment Preferences: expression of student interest

Grading: pass/fail only

Attributes: EXPE Experiential Education Courses

Not offered current academic year

CHIN 252 (F) Bridging Theory and Practice: Learning and Teaching Chinese as a Second Language

This course introduces students to the principles of second language acquisition (SLA), a field of study that investigates how people learn a foreign language and provides a basis for understanding research related to foreign language learning and teaching. Theoretical issues to be covered include what it means to know a language, how one becomes proficient in a foreign language, factors that affect the learning process, and the role of one's native language. We will also examine what SLA research has discovered about teaching grammar, pronunciation, vocabulary, and writing. The goal is to explore ways in which SLA theories can be applied to facilitate acquisition of Chinese in terms of learning strategies and curriculum design. This course will be useful to both students who want to improve their own learning of Chinese and those who plan to teach or conduct research on Chinese.

All readings in English with some examples in Chinese.

Class Format: lecture/discussion
**COMP 238 (F) Zen and the Art of American Literature**

**Cross-listings:** AMST 238  COMP 238  REL 228  ENGL 239

**Secondary Cross-listing**

In 1844, the Transcendentalist magazine, The Dial, published an excerpt from the Lotus Sutra, translated into English by Elizabeth Palmer Peabody. It was the first English-language version of any Buddhist text to be published in the United States. At the time, very few Americans knew the first thing about what Buddhism was, but now, a little over a century and a half later, Buddhist ideas and practices seem ubiquitous (available even in the form of apps like Headspace and Calm). In this class, we'll explore how Buddhism came to be the profoundly important cultural force in American life that it is today, looking particularly at the influence of Zen on American literature. We'll read an array of Buddhist-influenced literary texts, from the Beat poetry of the 1950s to novels like Middle Passage, A Tale for the Time Being, and Lincoln in the Bardo. But we'll also range far beyond the world of literature into a variety of other cultural domains in which Buddhism has had a deep impact, like environmentalism and deep ecology, Western psychotherapy, and Western attitudes towards death and dying. We'll also explore the role that Buddhism is playing in the fight against racism and racial injustice (from bell hooks to Black Lives Matter). And we'll engage in an experiential investigation of the benefits of incorporating contemplative practices like meditation into the classroom: students in the course will learn a variety of meditation techniques, and we'll spend some time each class practicing and reflecting upon those practices. Students will be expected to meditate outside of class as well (2-3 times per week) and keep a meditation journal. No prior experience with meditation is necessary. Just an open mind.

**Class Format:** lecture

**Requirements/Evaluation:** regular attendance, a weekly meditation journal, various informal in-class and take-home writing assignments, and a final 7- to 10-page essay

**Prerequisites:** any literature course at Williams or permission of the instructor

**Enrollment Limit:** 45

**Enrollment Preferences:** students will be asked to submit emails explaining why they want to take this course, which will be used to determine final enrollment; no first-years

**Expected Class Size:** 35

**Grading:** yes pass/fail option, yes fifth course option

**Distributions:** (D1)

**Attributes:** ENGL Literary Histories C  EXPE Experiential Education Courses

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**COMP 330 (S) New Orleans as Muse: Literature, Music, Art, Film and Theatre in the City**

**Cross-listings:** AMST 331  COMP 330  THEA 330

**Secondary Cross-listing**

This course will look at the representation of a city and how it has influenced artists. Students will read, listen to, and view a selection of the literature, music, film and art that represent the city from both pre-flooding and current re-building. Reading selections will include examples such as Harper's Weekly (Lafradino Hearn), The Awakening (Kate Chopin), A Streetcar Named Desire (Tennessee Williams), The Moviegoer (Walker Percy), Why New
Orleans Matters (Tom Piazza), A Confederacy of Dunces (John Kennedy O’Toole), New Orleans Sketches (William Faulkner), One Dead in the Attic (Chris Rose). Film examples such as A Streetcar Named Desire, An Interview with a Vampire, The Curious Case of Benjamin Button, When the Levees Broke, Treme, Waiting for Godot (in the 9th Ward). Music selections from examples such as Louis Moreau Gottschalk, Jelly Roll Morton, Louis Armstrong, Fats Domino, The Meters, Kermit Ruffins and the Rebirth Brass Band. Art selections will come from a variety of sources such as THE OGDEN Museum of Southern Art and Prospect 1, 2, & 3.

**Class Format:** seminar

**Requirements/Evaluation:** will be on active participation, weekly response essays on film viewings, 2 short essays on class topics, a final paper and a contemporary creative project/performance

**Prerequisites:** none

**Enrollment Limit:** 12

**Enrollment Preferences:** none

**Expected Class Size:** 10

**Grading:** yes pass/fail option, yes fifth course option

**Distributions:** (D1)

This course is cross-listed and the prefixes carry the following divisional credit:

AMST 331 (D2) COMP 330 (D1) THEA 330 (D1)

**Attributes:** AMST Arts in Context Electives AMST Space and Place Electives EXPE Experiential Education Courses FMST Related Courses

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Spring 2020

SEM Section: 01  R 1:10 pm - 3:50 pm  Deborah A. Brothers

**COMP 338 (F) The Culture of Carnival**

**Cross-listings:** THEA 335  COMP 338

**Secondary Cross-listing**

Carnival is a regenerative festival as well as a transgressive one. It is a time for upheavals and recreating for one day, a new world order. Men dress as women, women dress as men, the poor become kings; drink and sex and outrageous behavior is sanctioned. We will look at festivals in such places as New Orleans, Venice, and Rio. Central to this course are the cultural and religious lives of these societies, and how these festivals exist politically in a modern world as theatre and adult play. A variety of sources will be used, such as newspaper accounts, films, photography, personal memoirs and essays on the subject.

**Class Format:** studio

**Requirements/Evaluation:** students will be evaluated on regular active class participation, one oral presentation including a 5-page essay, one 15-page research final paper and participation in a group project/public parade.

**Prerequisites:** none

**Enrollment Limit:** 20

**Enrollment Preferences:** sophomores and first-year students

**Expected Class Size:** 18

**Grading:** yes pass/fail option, yes fifth course option

**Distributions:** (D1)

This course is cross-listed and the prefixes carry the following divisional credit:

THEA 335 (D1) COMP 338 (D1)

**Attributes:** EXPE Experiential Education Courses

Not offered current academic year

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**CSCI 12 (W) Geometry in Stained Glass**

Geometry allows us to observe mathematical objects from different viewpoints. It may be approached both visually and algebraically. Building geometric structures in the real world allows us to view them from different angles and sometimes, gain new insights. In this class students will work
together to design and build a pentagonal tiling in stained glass. There are only fifteen types of convex pentagons that can tile a two-dimensional surface, and the secret behind their assembly lies in the relationship between edges and angles. We will use Euclidian geometry, drafting by hand using only straightedge and compass, to figure out angles and dimensions. Students will then learn how to cut precise shapes in colored glass, wrap them in copper and solder together into a stained glass window. Students will also work individually or in small groups on projects of their own choosing. These may be two- or three-dimensional geometric figures, including those on non-Euclidian surfaces. In past years a student of organic chemistry modeled cyclohexane and a physics major, the spectral emissions of a star. In 2018 the class built a mirrored glass quasicrystal. Students interested in mathematical tiling patterns, networks, cellular or molecular assembly, crystallography, or simply curious about geometry would be welcome in this class. Exhibition of work on the last day of Winter Study is mandatory. All students must participate in setting up the exhibition and tidying the lab at the end of Winter Study. Please note: we will not be painting images on glass. Adjunct Bio: Debora Coombs has an MFA from the Royal College of Art in London, England. Her stained glass work is commissioned and exhibited internationally. Debora’s interest in tiling patterns and mathematical projection led to a collaboration with Williams Professor of Computer Science Duane Bailey. Their sculptures are currently on exhibit in the SCHOW science library.

Requirements/Evaluation: short paper and final project or presentation
Prerequisites: none, however, self-motivated students with good hand skills, patience and an interest in mathematics will find the course most rewarding
Enrollment Limit: 10
Enrollment Preferences: preference to seniors
Grading: pass/fail only
Materials/Lab Fee: $285
Attributes: EXPE Experiential Education Courses

CSCI 28 (W) Solution Design and Product Management

Cross-listings: CSCI 28 ECON 28

Secondary Cross-listing

Google Glass, Blackberry Storm, and the initial Obamacare Website represent just a few of the many failures that litter the IT project graveyard: 40 to 60 percent of large technology projects fail. All too often, the cause has little to do with the quality of technical engineering. More often, companies choose the wrong problem to solve or the wrong way to solve it. Google failed to account for the Google Glass price tag and privacy concerns. Blackberry failed to fully appreciate the touchscreen revolution. The Obamacare website failed to address management issues. The underlying conflict is that engineers and IT teams like to be told what to build, but customers often do not know what they want or how to express it. Identifying the right problem, designing the right solution, communicating the correct specifications to engineers, and delivering the right product to primary stakeholders are all difficult challenges crucial for successful product development. This course will explore various frameworks that product managers use to address these challenges. In doing so, we will model interactions between market forces, corporate directives, engineering challenges, and user experiences to interrogate the resilience of our ideas. We will also analyze and critique methodologies presented in readings by technology management prophets Marty Cagan, Steve Blank, Don Norman, Steve Krug and Eric Ries. Throughout the course, students will work in small teams to develop their own product management toolkit and deploy it towards solving a technology problem of each team’s own choosing. Adjunct Bio: Allan Wellenstein is a senior vice-president at DataArt, a global technology consulting firm and the head of their Solution Design consulting practice. Allan has over 15 years of experience helping some of the world largest companies design and implement massive technology transformations. Though technically headquartered in New York City, he lives with his wife and three children in Pittsfield, MA.

Requirements/Evaluation: final project or presentation
Prerequisites: none
Enrollment Limit: 12
Enrollment Preferences: students will be asked to submit a brief paragraph describing their interest in the course and what they hope to get out of it
Grading: pass/fail only
Materials/Lab Fee: $10 and approximately $30 for books

This course is cross-listed and the prefixes carry the following divisional credit:

CSCI 28 ECON 28

Attributes: EXPE Experiential Education Courses
ECON 13  (W)  Tools for Moving from Good Ideas to Successful Businesses and Organizations
This course is based on a proven methodology for turning business ideas into successful businesses and organizations. Student working in teams generate business ideas and then work to develop a business model to take the ideas to start and beyond. The course provides basic training in design thinking, business financials, and business analysis. The course uses the Lean Launchpad methodology used at major business and engineering schools throughout the world and endorsed by the National Institutes for Health and the National Science Foundation for commercializing research results. The class is appropriate to all students regardless of major who want to learn how to build a startup that succeeds. The class meets for two and a half hours three days a week for short lectures, discussions, group work, and presentations. There will also be outside guests who have created successful businesses. Outside of class, students will be required to watch online lectures and videos, read handouts, and do short papers. The primary work is to work in teams to research their business idea using the Lean Launchpad approach. Teams will develop a research plan, interview potential customers, analyze the results, and revise their business models. The teams will meet with the instructor regularly. Each team will develop weekly progress presentations as well as a final presentation. They will also develop a team video showing lessons the team learned during the course. Students will also be required to provide a three-page final paper of their experiences in the course. Adjunct Bio: Steve Fogel has worked with startup businesses for over 35 years. He has trained over 2,000 people who have started over 1,200 businesses and provided continuous support to a number of these businesses over the course of years. He has taught Winter Study nine times and is available to work with students throughout the year after the course ends.

Requirements/Evaluation:  final project or presentation; contributions in class and as part of their teams based on presentations, papers and class participation

Prerequisites:  none

Enrollment Limit:  20

Enrollment Preferences:  seniors first if the course is over-enrolled

Grading:  pass/fail only

Materials/Lab Fee:  approximately $40 for books

Attributes:  EXPE Experiential Education Courses

Not offered current academic year

ECON 23  (W)  Investing
ECON 23 is designed to provide students with a window into the world of endowment and investment management and is taught by members of the Williams College Investment Office. Students will learn about portfolio theory as well as specific asset classes such as global equities, hedge funds, venture capital, buyouts, fixed income, and impact investing. Students will gain practical skills in excel and will have the opportunity to learn from experienced investment professionals through guest lectures. Through presentations, discussions, readings, and project work, students will gain a better understanding of the various components of an institutional investment portfolio, how it is managed, and how investment managers are selected and monitored, from the perspective of an endowment. Students are expected to attend all on-campus classes (approx. 6 hours/week) and complete a set of relevant readings, a case study exercise, journal entries, and a final project (approx. 20 hours/week). Students will also be required to complete an introductory excel course. The course is open to freshmen, sophomores, and juniors. To apply, please send an email with your resume and a short personal statement discussing why you are interested in this course and what you hope to gain from it to: InvestmentOffice@williams.edu by 11:59 PM ET on Sunday, October 20, 2019. Adjunct Bio: Abigail Wattley serves as a Managing Director in the Williams College Investment Office where she oversees investments in hedge funds and credit. Ms. Wattley holds a B.A. from Williams College and an MBA from Harvard Business School.

Requirements/Evaluation:  final project or presentation

Prerequisites:  none

Enrollment Limit:  8

Enrollment Preferences:  mail your resume and a short personal statement discussing your interest in this course and what you hope to gain from it to: InvestmentOffice@williams.edu by 11:59 PM ET on Sunday, October 20, 2019; if overenrolled: phone interviews

Grading:  pass/fail only

Materials/Lab Fee:  approximately $40 for books

Attributes:  EXPE Experiential Education Courses

Not offered current academic year
Google Glass, Blackberry Storm, and the initial Obamacare Website represent just a few of the many failures that litter the IT project graveyard: 40 to 60 percent of large technology projects fail. All too often, the cause has little to do with the quality of technical engineering. More often, companies choose the wrong problem to solve or the wrong way to solve it. Google failed to account for the Google Glass price tag and privacy concerns. Blackberry failed to fully appreciate the touchscreen revolution. The Obamacare website failed to address management issues. The underlying conflict is that engineers and IT teams like to be told what to build, but customers often do not know what they want or how to express it. Identifying the right problem, designing the right solution, communicating the correct specifications to engineers, and delivering the right product to primary stakeholders are all difficult challenges crucial for successful product development. This course will explore various frameworks that product managers use to address these challenges. In doing so, we will model interactions between market forces, corporate directives, engineering challenges, and user experiences to interrogate the resilience of our ideas. We will also analyze and critique methodologies presented in readings by technology management prophets Marty Cagan, Steve Blank, Don Norman, Steve Krug and Eric Ries. Throughout the course, students will work in small teams to develop their own product management toolkit and deploy it towards solving a technology problem of each team’s own choosing.

Adjunct Bio: Allan Wellenstein is a senior vice-president at DataArt, a global technology consulting firm and the head of their Solution Design consulting practice. Allan has over 15 years of experience helping some of the world largest companies design and implement massive technology transformations. Though technically headquartered in New York City, he lives with his wife and three children in Pittsfield, MA.

Requirements/Evaluation: final project or presentation
Prerequisites: none
Enrollment Limit: 12
Enrollment Preferences: students will be asked to submit a brief paragraph describing their interest in the course and what they hope to get out of it
Grading: pass/fail only
Materials/Lab Fee: $10 and approximately $30 for books

This course is cross-listed and the prefixes carry the following divisional credit:
CSCI 28 ECON 28
Attributes: EXPE Experiential Education Courses
Not offered current academic year

ENGL 113  (F)  The Feminist Poetry Movement  (DPE)  (WS)
Cross-listings: ENGL 113 AMST 113 WGSS 113

Primary Cross-listing
Feminist poetry and feminist politics were so integrated in the 1960s and 1970s in America that critical essays on poets, such as Adrienne Rich and Audre Lorde, appeared in the same handbook that listed such resources for women as rape crisis centers and health clinics. This course will map the crucial alliance between feminist politics (and its major cultural and political gains) and the feminist poetry movement that became a major “tool” for building, organizing, and theorizing second-wave feminism. In order to track this political and poetic revolution, we will take an interdisciplinary approach that brings together historical, critical, and literary documents (including archival ones) and visual products (through the Object Lab of the Williams College Art Museum) that recreate the rich context of the period and help us consider the important social nature of aesthetic production. At the center of the course will be writings of major poets of the period, as well as anthologies and feminist periodicals that published their work and created a significant forum and shared space for women to articulate the politics and poetics of change. These periodicals and anthologies will also help us track the diversity of the feminist poetry movement and its intersection with issues of race, class, ethnicity, and sexuality. Ultimately, we will want to consider how poetry serves as an important tool for thinking through questions of power and injustice and what role it plays in creating necessary imaginative space in the world for expression, critique, and change.

Class Format: seminar; discussion, some lecture, project work in archives and art gallery
Requirements/Evaluation: three analysis papers (4-5 pages), creative (1-2 pages), discussion posts (5 pages), curated final project (archival exhibit with 7-page paper), presentations
Prerequisites: none
Enrollment Limit: 19
**Enrollment Preferences:**  none

**Expected Class Size:**  19

**Grading:**  yes pass/fail option, yes fifth course option

**Distributions:**  (D1)  (DPE)  (WS)

This course is cross-listed and the prefixes carry the following divisional credit:

ENGL 113 (D1)  AMST 113 (D2)  WGSS 113 (D2)

**Writing Skills Notes:** Writing skills taught through a series of assignments evenly spaced throughout the semester: weekly p/f discussion posts, three four-to-five-page graded papers, one creative assignment, and a final digital research project (10-page equivalent; peer reviewed). Students receive critical feedback on written assignments a week prior to due date through conferences and Google Docs and on final graded assignments within one week with sufficient time between assignments to improve the next assignment.

**Difference, Power, and Equity Notes:** The course examines the effects of class, race, ethnicity, gender, and sexuality on both poetry and the movement and how women negotiated their differences within the movement, as well as in response to the dominant patriarchal culture. This course employs critical tools (feminist theory, archival research, poetics, close reading, comparative approaches) to help students question and articulate the social injustices that led to the poetry and poetics of the Women's Liberation Movement.

**Attributes:**  AMST Critical and Cultural Theory Electives  ENGL Criticism Courses  EXPE Experiential Education Courses  WGSS Racial Sexual + Cultural Diversity Courses  WGSS Theory Courses

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**Fall 2019**

SEM Section: 01  MWF 8:30 am - 9:45 am  Bethany Hicok

**ENGL 237  (S) Making Things Visible: Adventures in Documentary Work**

**Cross-listings:**  ENGL 237  ARTH 237  SOC 236  AMST 236

**Secondary Cross-listing**

Photography, like ethnography, is an art of looking carefully and taking notice. This course will explore the overlaps between documentary photography and field methods of social science, concentrating particularly on the genre in which the two intersect: the photo essay. The students will learn methods of visual narrative and storytelling, using techniques of interviewing, still photography, and video. Concurrently, we will explore a number of examples of investigative work that blend word and image. We will ask questions about the changing practices and expectations associated with the documentarian’s role, and the evolving media in which such work can be presented. Lastly, we will discuss ethical questions that haunt documentary work, including issues of responsibility and politics of representation, as well as the perennial question of whether “objective representation” is even possible or desirable. Experience in photography and/or video is not required, but students will be expected to master basic technical skills in image acquisition and audio editing taught in a separate lab section. Students should also be prepared to interact extensively with people in the community and spend a significant time off campus doing fieldwork.

**Class Format:** seminar

**Requirements/Evaluation:**  full participation in discussions, weekly photographic assignments, a research journal, field materials, and an independent final project; in addition to substantial readings, students should be prepared to spend a significant time out of the classroom doing field work

**Prerequisites:**  none

**Enrollment Limit:**  12

**Enrollment Preferences:**  Anthropology and Sociology majors

**Expected Class Size:**  12

**Grading:**  no pass/fail option, no fifth course option

**Distributions:**  (D2)

This course is cross-listed and the prefixes carry the following divisional credit:

ENGL 237 (D2)  ARTH 237 (D1)  SOC 236 (D2)  AMST 236 (D2)

**Attributes:**  EXPE Experiential Education Courses  FMST Related Courses

Not offered current academic year

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**ENGL 239  (F) Zen and the Art of American Literature**
Cross-listings: AMST 238 COMP 238 REL 228 ENGL 239

Primary Cross-listing

In 1844, the Transcendentalist magazine, *The Dial*, published an excerpt from the *Lotus Sutra*, translated into English by Elizabeth Palmer Peabody. It was the first English-language version of any Buddhist text to be published in the United States. At the time, very few Americans knew the first thing about what Buddhism was, but now, a little over a century and a half later, Buddhist ideas and practices seem ubiquitous (available even in the form of apps like Headspace and Calm). In this class, we'll explore how Buddhism came to be the profoundly important cultural force in American life that it is today, looking particularly at the influence of Zen on American literature. We'll read an array of Buddhist-influenced literary texts, from the Beat poetry of the 1950s to novels like *Middle Passage*, *A Tale for the Time Being*, and *Lincoln in the Bardo*. But we'll also range far beyond the world of literature into a variety of other cultural domains in which Buddhism has had a deep impact, like environmentalism and deep ecology, Western psychotherapy, and Western attitudes towards death and dying. We'll also explore the role that Buddhism is playing in the fight against racism and racial injustice (from bell hooks to Black Lives Matter). And we'll engage in an experiential investigation of the benefits of incorporating contemplative practices like meditation into the classroom: students in the course will learn a variety of meditation techniques, and we'll spend some time each class practicing and reflecting upon those practices. Students will be expected to meditate outside of class as well (2-3 times per week) and keep a meditation journal. No prior experience with meditation is necessary. Just an open mind.

Class Format: lecture

Requirements/Evaluation: regular attendance, a weekly meditation journal, various informal in-class and take-home writing assignments, and a final 7- to 10-page essay

Prerequisites: any literature course at Williams or permission of the instructor

Enrollment Limit: 45

Enrollment Preferences: students will be asked to submit emails explaining why they want to take this course, which will be used to determine final enrollment; no first-years

Expected Class Size: 35

Grading: yes pass/fail option, yes fifth course option

Distributions: (D1)

This course is cross-listed and the prefixes carry the following divisional credit:

AMST 238 (D2) COMP 238 (D1) REL 228 (D2) ENGL 239 (D1)

Attributes: ENGL Literary Histories C EXPE Experiential Education Courses

Fall 2019

LEC Section: 01 MW 7:00 pm - 8:15 pm Bernard J. Rhie

ENGL 25 (W) Journalism Today

This course will give students an in-depth view of the inner workings of journalism today. It will feature the perspectives of several Williams alumni who work in a broad spectrum of today's media universe, including print, broadcast, and new media. Our guests will help students workshop their ideas for a feature-length piece of journalism they're expected to create during the month. They will discuss the reporting skills to use, as well as their own experiences. In addition to reading the work of guests, there may be required texts about issues and methods related to journalism. Students will be expected to complete several small reporting and writing exercises, as well as one feature-length news story on a topic chosen at the beginning of the course. There will be a week-long trip to New York for field work and to visit various newsrooms. In previous years, organizations visited have included CNN, the New York Times, the Columbia School of Journalism, ABC News, Bloomberg News, BuzzFeed News, ProPublica, the Wall Street Journal and APM Marketplace. Adjunct Bio: Christopher Marcisz is a freelance writer and editor based in Williamstown. He was a reporter (and later editor) at the Berkshire Eagle. Previously he worked in Washington covering national energy policy, wrote about sports in Moscow, and worked on the international desk at Newsweek. He graduated from the University of Pennsylvania and the Columbia University Graduate School of Journalism.

Requirements/Evaluation: final project or presentation

Prerequisites: none

Enrollment Limit: 10

Enrollment Preferences: priority will be given to seniors and juniors, with a preference for students with a demonstrated interest in journalism (as expressed in a statement of interest, if needed)
ENVI 100  (S)  Introduction to Weather and Climate

Cross-listings: GEOS 100  ENVI 100

Secondary Cross-listing

How is it that we have such a hard time predicting if it's going to rain next week, but we can be confident in projections of future climate change decades from now? This course will explore the atmosphere and how air moves and changes, understanding the wind, clouds, precipitation, and extreme events (including thunderstorms, hurricanes, and tornados) that form our weather. Building off of our understanding of the atmosphere, we'll look at longer time scales to develop a basic understanding of earth's climate, global heat and moisture transport, climate change, and the ways that humans can change our planet. We will look at weather and climate models to learn how to scientists and meteorologists predict future conditions. Labs will include local field trips, bench top experiments, and running a climate model on a computer.

Class Format: lecture
Requirements/Evaluation: Lab assignments, a midterm, and a final exam
Prerequisites: none
Enrollment Limit: 40
Enrollment Preferences: first-years and sophomores
Expected Class Size: 40
Grading: no pass/fail option, no fifth course option
Distributions: (D3)
This course is cross-listed and the prefixes carry the following divisional credit:
GEOS 100 (D3) ENVI 100 (D3)
Attributes: ENVI Natural World Electives  EXPE Experiential Education Courses  GEOS Group A Electives - Climate + Oceans

Spring 2020
LEC Section: 01  MWF 9:00 am - 9:50 am  Alice C. Bradley
LAB Section: 02  M 1:00 pm - 3:00 pm  Alice C. Bradley
LAB Section: 03  T 1:00 pm - 3:00 pm  Alice C. Bradley

ENVI 102  (S)  Introduction to Environmental Science

Environmental Science is an interdisciplinary field that develops scientific and technical means for assessing and mitigating human impacts on the environment. This course provides an overview of the discipline in the context of the interconnected global earth system: the geosphere, atmosphere, hydrosphere, and biosphere. Students are introduced to scientific methods from physics, chemistry, geology, and biology that are used to examine real-world case studies at global and local scales. Topics may include: climate change, air and water pollution, resource extraction and management, land use change, and their effects on environmental quality, biodiversity, and human health. During weekly fieldwork and laboratory sessions, students gain hands-on experience in collecting, analyzing, and interpreting data that can be used to make recommendations for addressing local environmental issues.

Class Format: two 75-minute lecture/discussion sessions and one 3-hour field/laboratory session each week
Requirements/Evaluation: weekly short quizzes, three exams, weekly homework, two lab reports, participation
Prerequisites: none
Enrollment Limit: 48
Enrollment Preferences: first- and second-year students, Environmental Studies majors and concentrators
Expected Class Size: 48
Grading: yes pass/fail option, yes fifth course option
ENVI 103  (F)  Global Warming and Environmental Change

Cross-listings:  ENVI 103  GEOS 103

Secondary Cross-listing

Earth is the warmest it has been for at least five centuries, and the surface of our planet is responding. From extreme floods and drought to landslides and soil erosion, the natural processes that shape the Earth's surface are tied to temperature and precipitation, and as those change, the landscape reacts. People are beginning to feel the impacts, but in different ways depending on where we call home. Our ability to cope with the changes also depends are where we are, with low-income nations the least able to implement costly adaptive strategies. In this course, we will take a tour of the planet, investigating how climate change is altering landscapes and the natural processes that support them. Ultimately, we will develop an understanding of the consequences of climate change that connects physical processes with the geography of place. Specific topics include foundations of the Earth system, plate tectonics and the construction of landscapes, Earth materials, rivers and flooding, hillslope processes, coastal processes, and climate impacts on natural resources such as freshwater and soil. Labs will use local field sites and analytical exercises to evaluate recent cases that reflect an interaction of the landscape and climate.

Class Format: lecture/discussion, three hours per week; laboratory, two hours per week in alternate weeks/occasional field trips

Requirements/Evaluation: evaluation based on written reports from laboratories, class participation, weekly quizzes, a midterm and final exam

Prerequisites: none

Enrollment Limit: 48

Enrollment Preferences: first-year and sophomore students

Expected Class Size: 48

Grading: yes pass/fail option, yes fifth course option

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 103 (D3) GEOS 103 (D3)

Attributes: ENVI Natural World Electives  EXPE Experiential Education Courses

Not offered current academic year

ENVI 104  (F)  Oceanography

Cross-listings: GEOS 104  ENVI 104  MAST 104

Secondary Cross-listing

The oceans cover about 72% of Earth's surface, yet we know the surface of Venus better than our own ocean floors. Why is that? This integrated introduction to the oceans covers formation and history of the ocean basins; the composition and origin of seawater; currents, tides, and waves; ocean-atmosphere interactions; oceans and climate; deep-marine environments; coastal processes; productivity in the oceans; and human impacts. Coastal oceanography will be investigated on an all-day field trip, hosted by the Williams-Mystic program in Connecticut. This course is in the Oceans and Climates group for the Geosciences major.

Class Format: lecture/discussion, three hours per week; laboratory, two hours per week in alternate weeks/one all-day field trip

Requirements/Evaluation: evaluation will be based on two hour exams, lab work, participation in the field trip, and a final exam

Prerequisites: none

Enrollment Limit: 48
**Enrollment Preferences:** first-year and sophomore students, MAST concentrators

**Expected Class Size:** 48

**Grading:** yes pass/fail option, no fifth course option

**Distributions:** (D3)

**This course is cross-listed and the prefixes carry the following divisional credit:**

GEOS 104 (D3) ENVI 104 (D3) MAST 104 (D3)

**Attributes:** ENVI Natural World Electives  EXPE Experiential Education Courses  GEOS Group A Electives - Climate + Oceans

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**Fall 2019**

LAB Section: 02  W 1:00 pm - 3:00 pm  Mea S. Cook

LAB Section: 03  R 1:00 pm - 3:00 pm  Mea S. Cook

LEC Section: 01  MWF 9:00 am - 9:50 am  Mea S. Cook

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**ENVI 105 (F) The Co-Evolution of Earth and Life**

**Cross-listings:** GEOS 101  ENVI 105

**Secondary Cross-listing**

Our planet is about 4.6 billion years old and has supported life for at least the last 3.5 billion of those years. This course will consider the inter-related nature of Earth and the life that inhabits it, starting with the first living organisms and progressing to the interaction of our own species with the Earth today. Students will investigate the dynamic nature of the Earth-life system, examine many of its feedbacks, and learn about the dramatic changes that have occurred throughout the history of the Earth. We will ask questions such as: How did the Earth facilitate biologic evolution, and what effects did those biologic events have on the physical Earth? When did photosynthesis evolve, how can we detect that in the rock record, and how did this biological event lead to profound changes in the environment? How and why did animals evolve and what role did environmental change play in the radiation of animal life? How did the rise and radiation of land plants affect world climate? How do plate tectonics, glaciation, and volcanism influence biodiversity and evolutionary innovation? What caused mass extinctions in the past and what can that teach us about our current extinction crisis?

Labs will involve hands-on analysis of rocks, fossils, and real-world data as well as conceptual and analytical exercises; field trips will contextualize major events in Earth history and will help students learn to read the rock record. Through these investigations, the class will provide a comprehensive overview of Earth history, with special attention paid to the geological and paleontological history of the northeastern United States. This course is in the Sediments and Life group for the Geosciences major.

**Class Format:** lecture; one laboratory per week plus one all-day field trip

**Requirements/Evaluation:** evaluation will be based on lab work, short quizzes, midterms, an independent project, and a final exam

**Prerequisites:** none

**Enrollment Limit:** 30

**Enrollment Preferences:** underclassmen

**Expected Class Size:** 30

**Grading:** yes pass/fail option, no fifth course option

**Distributions:** (D3)

**This course is cross-listed and the prefixes carry the following divisional credit:**

GEOS 101 (D3) ENVI 105 (D3)

**Attributes:** ENVI Natural World Electives  EXPE Experiential Education Courses  GEOS Group B Electives - Sediments + Life

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**Fall 2019**

LAB Section: 02  M 1:00 pm - 3:00 pm  Phoebe A. Cohen

LEC Section: 01  MWF 10:00 am - 10:50 am  Phoebe A. Cohen

LAB Section: 03  T 1:00 pm - 3:00 pm  Phoebe A. Cohen

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**ENVI 205 (F) Geomorphology**
Cross-listings: GEOS 201 ENVI 205

Secondary Cross-listing

Geomorphology is the study of landforms, the processes that shape them and the rates at which surface processes change the landscape in which we live. The course is designed for Geosciences majors and for environmental studies students interested in surficial geologic processes and their importance in shaping the physical environment. We emphasize the influence of climatic, tectonic, and volcanic forces on landform evolution over relatively short periods of geologic time, generally thousands to a few millions of years. At this time scale, the influence of human activity and climate change on geomorphic processes is strong, perhaps dominant, in many geologic environments. Many of our examples analyze human interaction - planned or unplanned - with geomorphic processes. Labs focus on field measurements of channels and landscapes in the Williamstown area as well as on the analysis of topographic maps and imagery.

Class Format: lecture/discussion, three hours per week; laboratory, three hours per week/student projects; weekend field trip to the White Mountains

Requirements/Evaluation: evaluation will be based on two hour exams, a project, lab work and class participation

Prerequisites: any 100-level GEOS course or permission of instructor

Enrollment Limit: 18

Expected Class Size: 15

Grading: yes pass/fail option, yes fifth course option

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

GEOS 201 (D3) ENVI 205 (D3)

Attributes: AMST Space and Place Electives ENVI Natural World Electives EVST Environmental Science EXPE Experiential Education Courses

Not offered current academic year

ENVI 214 (F) Mastering GIS

Cross-listings: GEOS 214 ENVI 214

Secondary Cross-listing

The development of Geographic Information Systems (GIS) has allowed us to investigate incredibly large and spatially complex data sets like never before. From assessing the effects of climate change on alpine glaciers, to identifying ideal habitat ranges for critically endangered species, to determining the vulnerability of coastal communities to storms, GIS tools have opened the door for important, large-scale environmental analyses. And as these technologies improve, our ability to understand the world grows ever greater. This course will teach you how to use GIS tools to investigate environmental problems. We will review fundamental principles in geography, the construction and visualization of geospatial datasets, and tools for analyzing geospatial data. Special attention will also be given to analysis of remotely sensed (satellite) imagery and to collection of field data. By the end of the course, you will be able to conduct independent GIS-based research and produce maps and other geospatial imagery of professional quality.

Class Format: lecture, three hours per week; laboratory, three hours per week

Requirements/Evaluation: based on weekly lab exercises, weekly quizzes, a research project, and a midterm and final exam

Prerequisites: at least one introductory course in BIOL, ENVI, or GEOS

Enrollment Limit: 20

Enrollment Preferences: Geosciences and Biology majors and Environmental Studies majors and concentrators

Expected Class Size: 20

Grading: no pass/fail option, no fifth course option

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

GEOS 214 (D3) ENVI 214 (D3)

Attributes: ENVI Natural World Electives EVST Methods Courses EXPE Experiential Education Courses

Fall 2019

LAB Section: 03 W 1:00 pm - 4:00 pm Alex A. Apotsos
In recent years, there has been a growing public and scientific interest in the Earth's climate and its variability. This interest reflects both concern over future climate changes resulting from anthropogenic increases in atmospheric greenhouse gases and growing recognition of the economic impact of "natural" climate variability (for example, El Niño events), especially in the developing world. Efforts to understand the Earth's climate system and predict future climate changes require both study of parameters controlling present day climate and detailed studies of climate changes in the past. In this course, we will review the processes that control the Earth's climate, like solar radiation, the greenhouse effect, ocean circulation, configuration of continents, and positive and negative feedbacks. At the same time, we will review the geological record of climate changes in the past, examining their causes. Laboratories and problem sets will emphasize developing problem solving skills as well as sampling and interpreting geological archives of climate change.

Class Format: lecture, three hours per week; one three-hour lab per week

Requirements/Evaluation: evaluation will be based on lab exercises and problem sets (25%), three hour exams (50%), and a final project (25%) where students will collect, analyze, and interpret data

Prerequisites: 100-level course in GEOS, CHEM, or PHYS or permission of instructor

Enrollment Limit: 14

Enrollment Preferences: Geosciences majors

Expected Class Size: 14

Grading: yes pass/fail option, yes fifth course option

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 215 (D3) GEOS 215 (D3)

 Attributes: ENVI Natural World Electives  EVST Environmental Science  EXPE Experiential Education Courses  MAST Interdepartmental Electives

Not offered current academic year

ENVI 220  (S)  Field Botany and Plant Natural History

Class Format: lecture and both field and indoor laboratories

Requirements/Evaluation: based on two hour exams, field quizzes, a final project, and a final exam

Prerequisites: none

Enrollment Limit: 30

Enrollment Preferences: Biology majors, and Environmental Studies majors & concentrators

Expected Class Size: 24

Grading: no pass/fail option, yes fifth course option

Unit Notes: satisfies the distribution requirement for the Biology major

Materials/Lab Fee: there is a charge for the lab manual; the sketchbook and hand lens can be self-provided or purchased from the department

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 220 (D3) BIOL 220 (D3)

Attributes: ENVI Natural World Electives EVST Living Systems Courses EXPE Experiential Education Courses PHLH Nutrition,Food Security+Environmental Health

Spring 2020

LAB Section: 03 W 1:00 pm - 4:00 pm Joan Edwards
LEC Section: 01 MWF 9:00 am - 9:50 am Joan Edwards
LAB Section: 02 T 1:00 pm - 4:00 pm Joan Edwards

ENVI 221  (F)  Introduction to Urban Studies: Shaping and Living the City

Cross-listings: AMST 221  ENVI 221  LATS 220

Secondary Cross-listing

Generally, cities have been described either as vibrant commercial and cultural centers or as violent and decaying urban slums. In an effort to begin to think more critically about cities, this course introduces important topics in the interdisciplinary field of Urban Studies. Specifically, we will discuss concepts and theories used to examine the peoples and structures that make up cities: In what ways do socio-cultural, economic, and political factors affect urban life and development? How are cities planned and used by various stakeholders (politicians, developers, businesses, and residents)? How do people make meaning of the places they inhabit? We will pay particular attention to the roles of race, ethnicity, class, and gender in understanding and interpreting urban communities. Texts include works by anthropologists, historians, sociologists, cultural critics, cultural geographers, and literary writers.

Class Format: lecture/discussion

Requirements/Evaluation: evaluation will be based on attendance and class participation, several short writing assignments (1-2 pages), two creative group projects and presentations, a midterm essay (6-7 pages) and final essay (8-10 pages)

Prerequisites: none

Enrollment Limit: 20

Enrollment Preferences: first and second year students as well as American Studies majors and Latina/o Studies concentrators

Expected Class Size: 20

Grading: no pass/fail option, no fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit: AMST 221 (D2) ENVI 221 (D2) LATS 220 (D2)

Attributes: AMST Comp Studies in Race, Ethnicity, Diaspora  AMST Space and Place Electives  ASAM Related Courses  ENVI Humanities, Arts + Social Science Electives  EXPE Experiential Education Courses  GBST Urbanizing World Electives  LATS Core Electives

Not offered current academic year

ENVI 222  (F)  Examining Inconvenient Truths: Climate Science meets U.S. Senate Politics

Cross-listings: GEOS 221  ENVI 222

Secondary Cross-listing

Former President Barack Obama once said: "There's one issue that will define the contours of this century more dramatically than any other, and that is the urgent threat of a changing climate." While consensus regarding the causes and impacts of climate change has been growing steadily among scientists and researchers (and to some extent, the general public) over the past two decades, the U.S. has yet to confront this issue in a manner consistent with its urgency. This lack of action in the U.S. is at least partly due to the fact that science provides necessary but insufficient information towards crafting effective climate change legislation and the unfortunate fact that climate change has become a highly partisan issue. The primary objective of this tutorial will be to help students develop a greater understanding of the difficulties associated with crafting climate change legislation, with an emphasis on the role of science and politics within the legislative process. To this end, the tutorial will address how the underlying scientific complexities embedded in most climate policies (e.g., offsets, carbon capture and sequestration, uncertainty and complexity of the climate system, leakage) must be balanced by and blended with the different operational value systems (e.g., economic, social, cultural, religious) that underlie U.S. politics. Over the course of this tutorial, students will develop a nuanced sense of how and when science can support the development of
comprehensive national climate change legislation within the current partisan climate. This course will take a practical approach, where students will craft weekly policy oriented documents (e.g., policy memos, action memos, research briefs) targeted to selected members of the current U.S. Senate Environment and Public Works Committee, the committee that has historically held jurisdiction over a majority of the major climate change bills that have moved through the legislative process.

Class Format: tutorial

Requirements/Evaluation: weekly papers and a final oral presentation

Prerequisites: none

Enrollment Limit: 10

Enrollment Preferences: second-year students, Geosciences and Environmental Studies third- and fourth-year students

Expected Class Size: 10

Grading: no pass/fail option, no fifth course option

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

GEOS 221 (D3) ENVI 222 (D3)

Attributes: EXPE Experiential Education Courses

Not offered current academic year

ENVI 229 (S) Environmental History

Cross-listings: ENVI 229 HIST 264

Primary Cross-listing

This course is an introduction to Environmental History: the study of how people have shaped environments, how environments have shaped human histories, and how cultural change and material change are intertwined. As such, it challenges traditional divides between the humanities and the sciences. Taking U.S. environmental history as our focus, we will strive to understand the historical roots of contemporary environmental problems, such as species extinction, pollution, and climate change. We will take field trips to learn to read landscapes for their histories and to examine how past environments are represented in museum exhibits, digital projects, and physical landscapes. And we will develop original arguments and essays based on archival research. It is imperative that we understand this history if we are to make informed and ethical environmental decisions at the local, national, and global scale.

Class Format: seminar with field trips

Requirements/Evaluation: several short essays; final research project

Prerequisites: ENVI 101 or permission of instructor

Enrollment Limit: 18

Enrollment Preferences: Environmental Studies majors and concentrators; History majors

Expected Class Size: 15

Grading: yes pass/fail option, no fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:

ENVI 229 (D2) HIST 264 (D2)

Attributes: ENVI Humanities, Arts + Social Science Electives EVST Culture/Humanities EXPE Experiential Education Courses HIST Group F Electives - U.S. + Canada

Spring 2020

SEM Section: 01 TR 9:55 am - 11:10 am Laura J. Martin

ENVI 250 (S) Environmental Justice (DPE)

Cross-listings: ENVI 250 STS 250

Primary Cross-listing
How are local and global environmental problems distributed unevenly according to race, gender, and class? What are the historical, social and economic structures that create unequal exposures to environmental risks and benefits? And how does inequity shape the construction and distribution of environmental knowledge? These are some of the questions we will take up in this course, which will be reading and discussion intensive. Through readings, discussions, and case studies, we will explore EJ in both senses. Potential topics include: toxics exposure, food justice, urban planning, e-waste, unnatural hazards, nuclearism in the U.S. West, natural resources and war, and climate refugees. Occasionally, community leaders, organizers, academics, and government officials will join the class to discuss current issues.

Class Format: seminar
Requirements/Evaluation: several short essays, final essay
Prerequisites: ENVI101 or permission of the instructor
Enrollment Limit: 12
Enrollment Preferences: Environmental Studies concentrators
Expected Class Size: 10
Grading: no pass/fail option, no fifth course option
Distributions: (D2) (DPE)

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 250 (D2) STS 250 (D2)

Difference, Power, and Equity Notes: This course will explore how unequal power leads to environmental injustice. Specifically, we will analyze how local and global environmental problems are distributed unevenly according to race, gender, and class. This is a service-based learning course, and students will hone skills to address environmental injustices.

Attributes: ENVI Humanities, Arts + Social Science Electives EVST Culture/Humanities EXPE Experiential Education Courses

Spring 2020
SEM Section: 01 W 1:10 pm - 3:50 pm Laura J. Martin

ENVI 255 (F) Environmental Observation
Cross-listings: GEOS 255 ENVI 255
Secondary Cross-listing
To study the environment, we need to observe and measure it. We collect data—numbers that represent system states—and analyze them to create understanding of the world we live in. Advances in technology create more opportunities to discover how the planet works. Through a survey of observational approaches (including weather stations, direct sampling, radar, community-based monitoring, and other techniques), this course will investigate the process of turning a physical property in the environment into a number on a computer and then into meaningful information. We will explore both direct field measurements and remote sensing techniques, diving into how to choose the appropriate sensor for a scientific question, how sensors work, analysis approaches and statistical methods, and how to interpret the resulting data. We will also learn how to mitigate measurement bias through a combination of lab experiments and field work and how to make interpretations of measurements that accurately reflect what is being measured. The course will focus on the near-surface environment, including the atmosphere, water, and biosphere. Students will carry out a research project using observation techniques covered in class to explore a scientific question of interest.

Class Format: lecture
Requirements/Evaluation: labs, quizzes, and a final project
Prerequisites: at least one prior course in GEOS or ENVI
Enrollment Limit: 20
Enrollment Preferences: sophomores
Expected Class Size: 10
Grading: no pass/fail option, no fifth course option
Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:
GEOS 255 (D3) ENVI 255 (D3)
ENVI 259  (S)  New England Environmental History  (WS)

Cross-listings:  ENVI 259  AMST 259  HIST 259

Primary Cross-listing

Have you ever wondered why there are few old-growth forests in New England? What Williamstown looked like before Williams was founded? How ideas about environmental preservation have changed over time? These are some of the questions we will explore in this course, which introduces students to the discipline of Environmental History through New England examples. During the semester we will: (1) read and discuss scholarship on the environmental history of New England and the world; (2) use case studies and field trips to examine how past environments are represented in museum exhibits, digital projects, and physical landscapes; (3) Develop a research paper based on original archival research

Class Format:  seminar

Requirements/Evaluation:  several short essays, final project

Prerequisites:  ENVI 101 or permission of the instructor

Enrollment Limit:  19

Enrollment Preferences:  Environmental Studies concentrators

Expected Class Size:  15

Grading:  no pass/fail option, yes fifth course option

Distributions:  (D2)  (WS)

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 259  (D2)  AMST 259  (D2)  HIST 259  (D2)

Writing Skills Notes:  Six response papers for which the instructor will provide consistent feedback on writing skills as well as content. Sequenced writing workshops that lead toward a final research paper.

Attributes:  ENVI Humanities, Arts + Social Science Electives  EVST Culture/Humanities  EXPE Experiential Education Courses  HIST Group F
Electives - U.S. + Canada

Not offered current academic year

ENVI 26  (W)  Material Culture and Craft of 19th Century Coastal New England

Cross-listings:  ENVI 26  MAST 25

Secondary Cross-listing

The goal in this course is to provide an opportunity for students to develop an intimate understanding of 19th century Mystic through lived experience. To appreciate a culture or a community so different from what we live and experience today, you must also understand the ways in which its residents shaped their world, specifically, the crafts they plied. There are few opportunities in life when this understanding can be delivered through lived experience. This will be one of them. Taking advantage of the extraordinary resources of Williams-Mystic, the coastal and ocean studies campus of Williams College located at the Mystic Seaport in Mystic, CT, this winter-study course, taught at Williams-Mystic, aims to: 1) provide rich hands-on participatory experiences that authentically mirror 19th century maritime craft and culture; and 2) offers learners a rare opportunity to delve deeply into the mindset of 19th century maritime culture by creating an authentic artifact that reflects understanding of the values and mores of this time period. There will be a number of instructors; including instructors employed by the Mystic Seaport in who specialize in chanteys, shipsmithing, ship Carving, scrimshaw, canvases, and boatbuilding.

Class Format:  Williams-Mystic

Requirements/Evaluation:  performance-based evaluation using exemplars, experts and authentic audience; final paper or project

Prerequisites:  none

Enrollment Limit:  12
Enrollment Preferences: by application
Grading: pass/fail only
Materials/Lab Fee: $1,500

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 26 MAST 25
Attributes: EXPE Experiential Education Courses TRVL Winter Study Travel Course
Not offered current academic year

ENVI 302  (F)  Environmental Planning Workshop: Community-Based Experience
Cross-listings: ENVI 302 AMST 302

Primary Cross-listing
This interdisciplinary, experiential workshop introduces students to the field of planning through community-based projects. Environmental Planning encompasses many disciplines pertaining to the natural and built landscape such as city planning, ecological design, climate resiliency, natural resource planning, landscape architecture, agricultural and food systems, walkable neighborhood design, energy planning, and community development, to name a few. In this workshop, students regularly get out of the classroom and gain direct experience working in the greater Berkshire region. The class is organized into two parts. Part 1 involves reading and discussion of the planning literature: history, theory, policy, ethics, and legal framework, site visits, and concludes with a design project. Part 2 focuses on hands-on field work tackling an actual planning project under the guidance of a community partner. Small teams of students, working in conjunction with a client in the region and under supervision of the instructor, conduct a planning project using all the tools of a planner, including interviews, survey research, site visits, primary research, mapping, and site design and other activities as demanded by the particular project. The project work draws on students’ academic training and extracurricular activities, and applies creative, design thinking techniques to solve thorny problems. The midterm assignment is a creative landscape/site design project. The lab sections include field trips, GIS mapping labs, project-related skill sessions, public meetings, and team project work. The course includes several class presentations and students will gain skills in public speaking, preparing presentations, interviewing, survey research, report-writing, design, and teamwork. The class culminates in an on-site public presentation of each team's planning study.

Class Format: seminar discussion/group workshop/project lab
Requirements/Evaluation: short writing assignments, class discussion, team projects, class presentations, final group public presentation and report
Prerequisites: ENVI 101 or permission of instructor; open to juniors and seniors only
Enrollment Limit: 16

Enrollment Preferences: Environmental Studies majors and concentrators
Expected Class Size: 16
Grading: no pass/fail option, yes fifth course option
Unit Notes: required course for Environmental Studies major and concentration
Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 302 (D2) AMST 302 (D2)
Attributes: AMST Space and Place Electives ENVI Core Courses EVST Core Courses EXPE Experiential Education Courses

Fall 2019
SEM Section: 01    TR 11:20 am - 12:35 pm     Sarah  Gardner
LAB Section: 05    T 1:00 pm - 4:00 pm     Henry W. Art
LAB Section: 03    R 1:00 pm - 4:00 pm     Sarah  Gardner
SEM Section: 04    TR 11:20 am - 12:35 pm     Henry W. Art
LAB Section: 02    Cancelled

ENVI 312  (F)  Communities and Ecosystems  (QFR)
Cross-listings: ENVI 312 BIOL 302
Secondary Cross-listing

An advanced ecology course that examines how species interact with each other and their environment and how communities are assembled. This course emphasizes phenomena that emerge in complex ecological systems, building on the fundamental concepts of population biology, community ecology, and ecosystem science. This foundation will be used to understand specific topics relevant to conservation including invasibility and the functional significance of diversity for ecosystem stability and processes. Lectures and labs will explore how to characterize the emergent properties of communities and ecosystems, and how theoretical, comparative, and experimental approaches are used to understand their structure and function. The laboratory component of this course will emphasize hypothesis-oriented field experiments as well as "big-data" analyses using existing data sets. The laboratory component of the course will culminate with a self-designed independent or group project.

Class Format: lecture/laboratory, six hours a week

Requirements/Evaluation: evaluation will be based on lab reports, a midterm exam, a term project presentation, and a final project paper

Prerequisites: BIOL/ENVI 203 or 220

Enrollment Limit: 28

Enrollment Preferences: Biology majors and Environmental Studies majors and concentrators

Expected Class Size: 24

Grading: yes pass/fail option, yes fifth course option

Unit Notes: satisfies the distribution requirement for the Biology major

Distributions: (D3) (QFR)

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 312 (D3) BIOL 302 (D3)

Attributes: ENVI Natural World Electives EVST Living Systems Courses EXPE Experiential Education Courses

Fall 2019

LEC Section: 01   TR 9:55 am - 11:10 am   Manuel A. Morales
LAB Section: 02   T 1:00 pm - 4:00 pm   Manuel A. Morales
LAB Section: 03   W 1:00 pm - 4:00 pm   Manuel A. Morales

ENVI 324 (S) Corals and Sea Level

Cross-listings: MAST 324 ENVI 324 GEOS 324

Secondary Cross-listing

In coastal communities, increasing flood damage from storm surges and chronic inundation by seawater are already happening as a result of sea level rise. How do we know what contributes to the observed change in sea level in the last century? What does the geological record teach us about what controls the natural variation in sea level on short and long timescales? How can we use this information to separate anthropogenic effects from natural change in modern systems? And how does this inform us on what to expect through the 21st century and beyond? In this course, we will examine how sea level is reconstructed using geological archives and how coral-based sea level data led to breakthroughs in our understanding of the long-term evolution of the ocean and climate, the controls in the timing of ice age cycles, the singularity of modern climate change, and how high the future seas will rise. During Spring Break, the class will travel to Barbados, a renowned locality for Quaternary sea level reconstruction, to observe modern and ancient reefs, and collect samples that will be the basis of individual or group projects in the second half of the semester. Participation in the Spring Break trip is not required for successful completion of the course, but course enrollment is necessary to attend the trip.

Class Format: lecture/laboratory

Requirements/Evaluation: short papers, labs, participation in discussion, and a research project

Prerequisites: GEOS 104 or GEOS 210 or GEOS 215 or MAST 311 or permission of instructor

Enrollment Limit: 10

Enrollment Preferences: Geoscience majors, students who commit to the Spring Break trip

Expected Class Size: 10

Grading: no pass/fail option, no fifth course option

Distributions: (D3)
This course is cross-listed and the prefixes carry the following divisional credit:
MAST 324 (D3) ENVI 324 (D3) GEOS 324 (D3)

Attributes: ENVI Natural World Electives EXPE Experiential Education Courses

Not offered current academic year

ENVI 351 (F)(S) Marine Policy
Cross-listings: ENVI 351 PSCI 319 MAST 351

Secondary Cross-listing
This seminar utilizes the interdisciplinary background of the other Williams-Mystic courses to examine national and international contemporary issues in our relationship with our ocean and marine environment. This seminar takes a topical approach to the study of ocean and coastal law and policy, examining climate change, fisheries, coastal zone management, admirality law, marine biodiversity, ocean and coastal pollution, and ocean governance.

Class Format: lecture, discussions, guest lectures by active professionals, and includes coastal and near-shore field trips, and 10 days offshore

Requirements/Evaluation: an independent research paper, a presentation, and a final exam

Extra Info: offered only at Mystic Seaport

Grading: yes pass/fail option, yes fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 351 (D2) PSCI 319 (D2) MAST 351 (D2)

Attributes: ENVI Environmental Policy EXPE Experiential Education Courses POEC International Political Economy Courses

Fall 2019
LEC Section: 01 TBA Catherine Robinson Hall

Spring 2020
LEC Section: 01 TBA Catherine Robinson Hall

GEOS 100 (S) Introduction to Weather and Climate

Cross-listings: GEOS 100 ENVI 100

Primary Cross-listing
How is it that we have such a hard time predicting if it’s going to rain next week, but we can be confident in projections of future climate change decades from now? This course will explore the atmosphere and how air moves and changes, understanding the wind, clouds, precipitation, and extreme events (including thunderstorms, hurricanes, and tornados) that form our weather. Building off of our understanding of the atmosphere, we'll look at longer time scales to develop a basic understanding of earth’s climate, global heat and moisture transport, climate change, and the ways that humans can change our planet. We will look at weather and climate models to learn how to scientists and meteorologists predict future conditions. Labs will include local field trips, bench top experiments, and running a climate model on a computer.

Class Format: lecture

Requirements/Evaluation: Lab assignments, a midterm, and a final exam

Prerequisites: none

Enrollment Limit: 40

Enrollment Preferences: first-years and sophomores

Expected Class Size: 40

Grading: no pass/fail option, no fifth course option

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:
GEOS 100 (D3) ENVI 100 (D3)
GEOS 101 (F) The Co-Evolution of Earth and Life

Cross-listings: GEOS 101 ENVI 105

Primary Cross-listing

Our planet is about 4.6 billion years old and has supported life for at least the last 3.5 billion of those years. This course will consider the inter-related nature of Earth and the life that inhabits it, starting with the first living organisms and progressing to the interaction of our own species with the Earth today. Students will investigate the dynamic nature of the Earth-life system, examine many of its feedbacks, and learn about the dramatic changes that have occurred throughout the history of the Earth. We will ask questions such as: How did the Earth facilitate biologic evolution, and what effects did those biologic events have on the physical Earth? When did photosynthesis evolve, how can we detect that in the rock record, and how did this biological event lead to profound changes in the environment? How and why did animals evolve and what role did environmental change play in the radiation of animal life? How did the rise and radiation of land plants affect world climate? How do plate tectonics, glaciation, and volcanism influence biodiversity and evolutionary innovation? What caused mass extinctions in the past and what can that teach us about our current extinction crisis?

Labs will involve hands-on analysis of rocks, fossils, and real-world data as well as conceptual and analytical exercises; field trips will contextualize major events in Earth history and will help students learn to read the rock record. Through these investigations, the class will provide a comprehensive overview of Earth history, with special attention paid to the geological and paleontological history of the northeastern United States. This course is in the Sediments and Life group for the Geosciences major.

Class Format: lecture; one laboratory per week plus one all-day field trip

Requirements/Evaluation: evaluation will be based on lab work, short quizzes, midterms, an independent project, and a final exam

Prerequisites: none

Enrollment Limit: 30

Enrollment Preferences: underclassmen

Expected Class Size: 30

Grading: yes pass/fail option, no fifth course option

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

GEOS 101 (D3) ENVI 105 (D3)

Attributes: ENVI Natural World Electives  EXPE Experiential Education Courses  GEOS Group A Electives - Climate + Oceans

GEOS 102 (S) An Unfinished Planet

The Earth is a work-in-progress, an evolving planet whose vital signs--as expressed by earthquakes, volcanic eruptions, and shifting plates--are still strong. In a geological time frame, nothing on Earth is permanent: ocean basins open and close, mountains rise and fall, continental masses accrete and separate. There is a message here for all of us who live, for an infinitesimally brief time, on the moving surface of the globe. This course uses the plate tectonics model--one of the fundamental scientific accomplishments of the past century--to interpret the processes and products of a changing Earth. The emphasis will be on mountain systems (on land and beneath the oceans) as expressions of plate interactions. Specific topics include the rocks and structures of modern and ancient mountain belts, the patterns of global seismicity and volcanism, the nature of the Earth's interior, the changing configurations of continents and ocean basins through time, and, in some detail, the formation of the Appalachian Mountain system and the
geological assembly of New England. Readings will be from a physical geology textbook, a primary source supplement, selected writings of John McPhee, and references about the geology of the Northeast.

Class Format: lecture, three hours per week; lab (several involving field work), two hours per week; one required all-day field trip on the last Monday of the semester to the Connecticut Valley and the highlands of western Massachusetts

Requirements/Evaluation: evaluation will be based on two hour-tests, weekly lab work, and a scheduled final exam

Prerequisites: none

Enrollment Limit: 40

Enrollment Preferences: first-year and sophomore students

Expected Class Size: 40

Grading: yes pass/fail option, yes fifth course option

Distributions: (D3)

Attributes: ENVI Natural World Electives  EXPE Experiential Education Courses  GEOS Group C Electives - Solid Earth

Spring 2020

LAB Section: 02  W 1:00 pm - 3:00 pm  Bud Wobus

LEC Section: 01  MWF 10:00 am - 10:50 am  Bud Wobus

LAB Section: 03  R 1:00 pm - 3:00 pm  Bud Wobus

GEOS 103 (F)  Global Warming and Environmental Change

Cross-listings: ENVI 103  GEOS 103

Primary Cross-listing

Earth is the warmest it has been for at least five centuries, and the surface of our planet is responding. From extreme floods and drought to landslides and soil erosion, the natural processes that shape the Earth's surface are tied to temperature and precipitation, and as those change, the landscape reacts. People are beginning to feel the impacts, but in different ways depending on where we call home. Our ability to cope with the changes also depends are where we are, with low-income nations the least able to implement costly adaptive strategies. In this course, we will take a tour of the planet, investigating how climate change is altering landscapes and the natural processes that support them. Ultimately, we will develop an understanding of the consequences of climate change that connects physical processes with the geography of place. Specific topics include foundations of the Earth system, plate tectonics and the construction of landscapes, Earth materials, rivers and flooding, hillslope processes, coastal processes, and climate impacts on natural resources such as freshwater and soil. Labs will use local field sites and analytical exercises to evaluate recent cases that reflect an interaction of the landscape and climate.

Class Format: lecture/discussion, three hours per week; laboratory, two hours per week in alternate weeks/occasional field trips

Requirements/Evaluation: evaluation based on written reports from laboratories, class participation, weekly quizzes, a midterm and final exam

Prerequisites: none

Enrollment Limit: 48

Enrollment Preferences: first-year and sophomore students

Expected Class Size: 48

Grading: yes pass/fail option, yes fifth course option

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

ENVI 103 (D3)  GEOS 103 (D3)

Attributes: ENVI Natural World Electives  EXPE Experiential Education Courses

Not offered current academic year

GEOS 104 (F)  Oceanography

Cross-listings: GEOS 104  ENVI 104  MAST 104

Primary Cross-listing
The oceans cover about 72% of Earth's surface, yet we know the surface of Venus better than our own ocean floors. Why is that? This integrated introduction to the oceans covers formation and history of the ocean basins; the composition and origin of seawater; currents, tides, and waves; ocean-atmosphere interactions; oceans and climate; deep-marine environments; coastal processes; productivity in the oceans; and human impacts. Coastal oceanography will be investigated on an all-day field trip, hosted by the Williams-Mystic program in Connecticut. This course is in the Oceans and Climates group for the Geosciences major.

**Class Format:** lecture/discussion, three hours per week; laboratory, two hours per week in alternate weeks/one all-day field trip

**Requirements/Evaluation:** evaluation will be based on two hour exams, lab work, participation in the field trip, and a final exam

**Prerequisites:** none

**Enrollment Limit:** 48

**Enrollment Preferences:** first-year and sophomore students, MAST concentrators

**Expected Class Size:** 48

**Grading:** yes pass/fail option, no fifth course option

**Distributions:** (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

GEOS 104 (D3) ENVI 104 (D3) MAST 104 (D3)

**Attributes:** ENVI Natural World Electives  EXPE Experiential Education Courses  GEOS Group A Electives - Climate + Oceans

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**GEOS 201  (F)  Geomorphology**

**Cross-listings:** GEOS 201  ENVI 205

**Primary Cross-listing**

Geomorphology is the study of landforms, the processes that shape them and the rates at which surface processes change the landscape in which we live. The course is designed for Geosciences majors and for environmental studies students interested in surficial geologic processes and their importance in shaping the physical environment. We emphasize the influence of climatic, tectonic, and volcanic forces on landform evolution over relatively short periods of geologic time, generally thousands to a few millions of years. At this time scale, the influence of human activity and climate change on geomorphic processes is strong, perhaps dominant, in many geologic environments. Many of our examples analyze human interaction - planned or unplanned-- with geomorphic processes. Labs focus on field measurements of channels and landscapes in the Williamstown area as well as on the analysis of topographic maps and imagery.

**Class Format:** lecture/discussion, three hours per week; laboratory, three hours per week/student projects; weekend field trip to the White Mountains

**Requirements/Evaluation:** evaluation will be based on two hour exams, a project, lab work and class participation

**Prerequisites:** any 100-level GEOS course or permission of instructor

**Enrollment Limit:** 18

**Expected Class Size:** 15

**Grading:** yes pass/fail option, yes fifth course option

**Distributions:** (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

GEOS 201 (D3) ENVI 205 (D3)

**Attributes:** AMST Space and Place Electives  ENVI Natural World Electives  EVST Environmental Science  EXPE Experiential Education Courses

Not offered current academic year

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**GEOS 202  (S)  Mineralogy**
This course could be subtitled "An Introduction to Earth Materials and Analytical Techniques." As the basis for all subsequent solid-earth courses in the major, it provides a systematic framework for the study of minerals—Earth's building blocks: their physical and chemical properties at all scales and the common analytical methods used to identify and interpret them. The course progresses from hand-specimen morphology and crystallography through element distribution and crystal chemistry to the phase relations, compositional variation, and mineral associations within major rock-forming mineral systems. Laboratory work includes the determination of crystal symmetry; mineral separation; the principles and applications of optical emission spectroscopy; wavelength- and energy-dispersive x-ray spectrochemical analysis; x-ray diffraction; the use of the petrographic microscope; and the identification of important minerals in hand specimen and thin section.

**Class Format:** lecture, three hours per week; laboratory, three hours per week; independent study of minerals in hand specimen; one afternoon field trip

**Requirements/Evaluation:** evaluation will be based on one hour test, lab work, and a final exam

**Prerequisites:** one 100-level GEOS course or permission of instructor

**Enrollment Limit:** 14

**Enrollment Preferences:** sophomores and juniors planning to take GEOS 301, 302 and/or 303 in the subsequent year

**Expected Class Size:** 12

**Grading:** no pass/fail option, no fifth course option

**Distributions:** (D3)

**Attributes:** EXPE Experiential Education Courses GEOS Group C Electives - Solid Earth MTSC Courses

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**GEOS 210 (F)(S) Oceanographic Processes**

**Cross-listings:** MAST 211 GEOS 210

**Secondary Cross-listing**

This course examines ocean and coastal environmental science issues including carbon dioxide and the ocean's role in climate, El Niño and other ocean-atmosphere oscillations that influence our weather, coastal erosion and other hazards, coastal pollution, and fisheries. The focus is on controlling processes with regional comparisons. Blue water oceanography is conducted in the Atlantic and comparative coastal oceanography includes trips to southern New England shores, and the West and Gulf coasts of the US as part of the Williams-Mystic program.

**Class Format:** lecture/laboratory, including coastal and near-shore field trips, 11 days offshore, and a laboratory or field research project

**Requirements/Evaluation:** two tests, a research project, and a presentation

**Extra Info:** offered only at Mystic Seaport

**Grading:** yes pass/fail option, yes fifth course option

**Distributions:** (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

MAST 211 (D3) GEOS 210 (D3)

**Attributes:** ENVI Natural World Electives EVST Living Systems Courses EXPE Experiential Education Courses GEOS Group A Electives - Climate + Oceans

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**Fall 2019**

LEC Section: 01 TBA Lisa A. Gilbert

**Spring 2020**

LEC Section: 01 TBA Lisa A. Gilbert

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**GEOS 212 (S) Paleobiology**

**Cross-listings:** BIOL 211 GEOS 212
Primary Cross-listing

The fossil record is a direct window into the history of life on Earth and contains a wealth of information on evolution, biodiversity, and climate change. This course investigates the record of ancient life forms, from single-celled algae to snails to dinosaurs. In addition to the intellectual discovery of fossils as organic relics and the ways in which fossils have been used to support conflicting views on nature, geologic time, and evolution, we will cover a range of topics central to modern paleobiology. These include: how the fossil record informs our understanding of evolutionary processes including speciation; the causes and consequences of mass extinctions; how fossils help us tell time and reconstruct the Earth's climactic and tectonic history; statistical analysis of the fossil record to reconstruct biodiversity through time; analysis of fossil morphology to recreate the biomechanics of extinct organisms; and using fossil communities to reconstruct past ecosystems. Laboratory exercises will take advantage of Williams' fossil collections as well as published datasets to provide a broad understanding of fossils and the methods we use to study the history of life on Earth, including using the programming language R (no previous experience is required). We will also view a diversity of fossils in their geologic and paleo-environmental context on our field trip to Eastern New York. This course is in the Sediments and Life group for the Geosciences major.

Class Format: lecture/laboratory; field trip to the the Paleozoic of New York State

Requirements/Evaluation: lab assignments, short quizzes and writing assignments, and a final exam

Prerequisites: any 100-level GEOS course or BIOL 102, 203 or 205

Enrollment Limit: 15

Enrollment Preferences: sophomore and junior GEOS majors

Expected Class Size: 12

Grading: no pass/fail option, no fifth course option

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

BIOL 211 (D3) GEOS 212 (D3)

Attributes: EXPE Experiential Education Courses GEOS Group B Electives - Sediments + Life MAST Interdepartmental Electives

Spring 2020

LAB Section: 02 W 1:00 pm - 4:00 pm Phoebe A. Cohen

LEC Section: 01 TR 9:55 am - 11:10 am Phoebe A. Cohen

GEOS 214 (F) Mastering GIS

Cross-listings: GEOS 214 ENVI 214

Primary Cross-listing

The development of Geographic Information Systems (GIS) has allowed us to investigate incredibly large and spatially complex data sets like never before. From assessing the effects of climate change on alpine glaciers, to identifying ideal habitat ranges for critically endangered species, to determining the vulnerability of coastal communities to storms, GIS tools have opened the door for important, large-scale environmental analyses. And as these technologies improve, our ability to understand the world grows ever greater. This course will teach you how to use GIS tools to investigate environmental problems. We will review fundamental principles in geography, the construction and visualization of geospatial datasets, and tools for analyzing geospatial data. Special attention will also be given to analysis of remotely sensed (satellite) imagery and to collection of field data. By the end of the course, you will be able to conduct independent GIS-based research and produce maps and other geospatial imagery of professional quality.

Class Format: lecture, three hours per week; laboratory, three hours per week

Requirements/Evaluation: based on weekly lab exercises, weekly quizzes, a research project, and a midterm and final exam

Prerequisites: at least one introductory course in BIOL, ENVI, or GEOS

Enrollment Limit: 20

Enrollment Preferences: Geosciences and Biology majors and Environmental Studies majors and concentrators

Expected Class Size: 20

Grading: no pass/fail option, no fifth course option

Distributions: (D3)
This course is cross-listed and the prefixes carry the following divisional credit:
GEOS 214 (D3) ENVI 214 (D3)

Attributes: ENVI Natural World Electives EVST Methods Courses EXPE Experiential Education Courses

Fall 2019
LEC Section: 01  MW 11:00 am - 12:15 pm  Alex A. Apotsos
LAB Section: 03  W 1:00 pm - 4:00 pm  Alex A. Apotsos
LAB Section: 02  M 1:00 pm - 4:00 pm  Alex A. Apotsos

GEOS 215 (F) Climate Changes
Cross-listings: ENVI 215 GEOS 215

Primary Cross-listing
In recent years, there has been a growing public and scientific interest in the Earth's climate and its variability. This interest reflects both concern over future climate changes resulting from anthropogenic increases in atmospheric greenhouse gases and growing recognition of the economic impact of "natural" climate variability (for example, El Niño events), especially in the developing world. Efforts to understand the Earth's climate system and predict future climate changes require both study of parameters controlling present day climate and detailed studies of climate changes in the past. In this course, we will review the processes that control the Earth's climate, like solar radiation, the greenhouse effect, ocean circulation, configuration of continents, and positive and negative feedbacks. At the same time, we will review the geological record of climate changes in the past, examining their causes. Laboratories and problem sets will emphasize developing problem solving skills as well as sampling and interpreting geological archives of climate change.

Class Format: lecture, three hours per week; one three-hour lab per week
Requirements/Evaluation: evaluation will be based on lab exercises and problem sets (25%), three hour exams (50%), and a final project (25%) where students will collect, analyze, and interpret data
Prerequisites: 100-level course in GEOS, CHEM, or PHYS or permission of instructor
Enrollment Limit: 14
Enrollment Preferences: Geosciences majors
Expected Class Size: 14
Grading: yes pass/fail option, yes fifth course option
Distributions: (D3)
This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 215 (D3) GEOS 215 (D3)
Attributes: ENVI Natural World Electives EVST Environmental Science EXPE Experiential Education Courses MAST Interdepartmental Electives

GEOS 221 (F) Examining Inconvenient Truths: Climate Science meets U.S. Senate Politics
Cross-listings: GEOS 221 ENVI 222

Primary Cross-listing
Former President Barack Obama once said: "There's one issue that will define the contours of this century more dramatically than any other, and that is the urgent threat of a changing climate." While consensus regarding the causes and impacts of climate change has been growing steadily among scientists and researchers (and to some extent, the general public) over the past two decades, the U.S. has yet to confront this issue in a manner consistent with its urgency. This lack of action in the U.S. is at least partly due to the fact that science provides necessary but insufficient information towards crafting effective climate change legislation and the unfortunate fact that climate change has become a highly partisan issue. The primary objective of this tutorial will be to help students develop a greater understanding of the difficulties associated with crafting climate change legislation, with an emphasis on the role of science and politics within the legislative process. To this end, the tutorial will address how the underlying scientific complexities embedded in most climate policies (e.g., offsets, carbon capture and sequestration, uncertainty and complexity of the climate system, leakage) must be balanced by and blended with the different operational value systems (e.g., economic, social, cultural, religious) that underlie U.S.
politics. Over the course of this tutorial, students will develop a nuanced sense of how and when science can support the development of comprehensive national climate change legislation within the current partisan climate. This course will take a practical approach, where students will craft weekly policy oriented documents (e.g., policy memos, action memos, research briefs) targeted to selected members of the current U.S. Senate Environment and Public Works Committee, the committee that has historically held jurisdiction over a majority of the major climate change bills that have moved through the legislative process.

**Class Format:** tutorial

**Requirements/Evaluation:** weekly papers and a final oral presentation

**Prerequisites:** none

**Enrollment Limit:** 10

**Enrollment Preferences:** second-year students, Geosciences and Environmental Studies third- and fourth-year students

**Expected Class Size:** 10

**Grading:** no pass/fail option, no fifth course option

**Distributions:** (D3)

**This course is cross-listed and the prefixes carry the following divisional credit:**

GEOS 221 (D3) ENVI 222 (D3)

**Attributes:** EXPE Experiential Education Courses

*Not offered current academic year*

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**GEOS 255 (F) Environmental Observation**

**Cross-listings:** GEOS 255 ENVI 255

**Primary Cross-listing**

To study the environment, we need to observe and measure it. We collect data--numbers that represent system states--and analyze them to create understanding of the world we live in. Advances in technology create more opportunities to discover how the planet works. Through a survey of observational approaches (including weather stations, direct sampling, radar, community-based monitoring, and other techniques), this course will investigate the process of turning a physical property in the environment into a number on a computer and then into meaningful information. We will explore both direct field measurements and remote sensing techniques, diving into how to choose the appropriate sensor for a scientific question, how sensors work, analysis approaches and statistical methods, and how to interpret the resulting data. We will also learn how to mitigate measurement bias through a combination of lab experiments and field work and how to make interpretations of measurements that accurately reflect what is being measured. The course will focus on the near-surface environment, including the atmosphere, water, and biosphere. Students will carry out a research project using observation techniques covered in class to explore a scientific question of interest.

**Class Format:** lecture

**Requirements/Evaluation:** labs, quizzes, and a final project

**Prerequisites:** at least one prior course in GEOS or ENVI

**Enrollment Limit:** 20

**Enrollment Preferences:** sophomores

**Expected Class Size:** 10

**Grading:** no pass/fail option, no fifth course option

**Distributions:** (D3)

**This course is cross-listed and the prefixes carry the following divisional credit:**

GEOS 255 (D3) ENVI 255 (D3)

**Attributes:** ENVI Natural World Electives EXPE Experiential Education Courses GEOS Group A Electives - Climate + Oceans

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Fall 2019

LEC Section: 01 MWF 10:00 am - 10:50 am Alice C. Bradley

LAB Section: 02 R 1:00 pm - 4:00 pm Alice C. Bradley
Sediments and sedimentary rocks preserve information about the rocks that were eroded to form them, the fluids and forces that transported them, the mechanisms by which they were deposited, and the processes by which they were lithified. This course introduces the principles of sedimentology, including sediment composition, fluid mechanics, bedform analysis, and depositional environments. This course is in the Sediments and Life group for the Geosciences major.

Class Format: lecture/discussion, three hours per week; laboratory, three hours per week; field trips: two half-day and one all-day

Requirements/Evaluation: lab work, writing assignments, participation in discussions, and a final exam WS: Writing assignments will be thoroughly edited for style, grammar, and syntax; each student will compile their papers as a growing body of work, and each new assignment will be read and edited in the context of previous submissions.

Prerequisites: at least one course in GEOS Group B (Solid Earth) AND one course in GEOS Group C (Sediments and Life); or permission of instructor

Enrollment Limit: 15

Enrollment Preferences: Geosciences majors

Expected Class Size: 12

Grading: no pass/fail option, no fifth course option

Distributions: (D3) (WS)

Writing Skills Notes: Writing assignments will be thoroughly edited for style, grammar, and syntax; each student will compile their papers as a growing body of work, and each new assignment will be read and edited in the context of previous submissions.

Attributes: EXPE Experiential Education Courses GEOS Group B Electives - Sediments + Life MAST Interdepartmental Electives

Spring 2020

LEC Section: 01 TR 11:20 am - 12:35 pm Ronadh Cox
LAB Section: 02 R 1:00 pm - 4:00 pm Ronadh Cox

GEOS 324 (S) Corals and Sea Level

Cross-listings: MAST 324 ENVI 324 GEOS 324

Primary Cross-listing

In coastal communities, increasing flood damage from storm surges and chronic inundation by seawater are already happening as a result of sea level rise. How do we know what contributes to the observed change in sea level in the last century? What does the geological record teach us about what controls the natural variation in sea level on short and long timescales? How can we use this information to separate anthropogenic effects from natural change in modern systems? And how does this inform us on what to expect through the 21st century and beyond? In this course, we will examine how sea level is reconstructed using geological archives and how coral-based sea level data led to breakthroughs in our understanding of the long-term evolution of the ocean and climate, the controls in the timing of ice age cycles, the singularity of modern climate change, and how high the future seas will rise. During Spring Break, the class will travel to Barbados, a renowned locality for Quaternary sea level reconstruction, to observe modern and ancient reefs, and collect samples that will be the basis of individual or group projects in the second half of the semester. Participation in the Spring Break trip is not required for successful completion of the course, but course enrollment is necessary to attend the trip.

Class Format: lecture/laboratory

Requirements/Evaluation: short papers, labs, participation in discussion, and a research project

Prerequisites: GEOS 104 or GEOS 210 or GEOS 215 or MAST 311 or permission of instructor

Enrollment Limit: 10

Enrollment Preferences: Geoscience majors, students who commit to the Spring Break trip

Expected Class Size: 10

Grading: no pass/fail option, no fifth course option

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

MAST 324 (D3) ENVI 324 (D3) GEOS 324 (D3)

Attributes: ENVI Natural World Electives EXPE Experiential Education Courses
GEOS 401  (F)  Global Tectonics and the Rise of Mountains  (WS)
Fifty years after the sea-floor spreading hypothesis was first verified using magnetic anomalies, we have spectacular data sets from paleomagnetism, seismology, volcanism, the Global Positioning System, and digital elevation models that provide rich details into the kinematics and mechanisms of present and past plate motions. After an introduction to the theory of plate tectonics, local field trips, supplemented by reading assignments, will illustrate how field observations can be used to reconstruct tectonic environments in ancient mountain belts. We will also use journal articles to explore ways in which plate tectonics help explain the evolution of mountain belts with special emphasis on the Appalachians.

Class Format: tutorial with weekly one-hour meetings; in addition, there will be five field trips early in the semester on Thursday from 11:20 to 3:50 pm
Requirements/Evaluation: six papers, three based on field trips and three based on journal articles, and critiques of partner's papers
Prerequisites: GEOS 301 or 303 or permission of instructor
Enrollment Limit: 10
Enrollment Preferences: senior Geosciences majors
Expected Class Size: 10
Grading: no pass/fail option, yes fifth course option
Materials/Lab Fee: $15 for field supplies
Distributions: (D3) (WS)

Writing Skills Notes: Six 5- to 10-page papers throughout the semester based on data collected during field trips (3) and journal articles (3). Students will receive from the instructor timely comments on their writing skills, with suggestions for improvement.
Attributes: EXPE Experiential Education Courses  GEOS Group C Electives - Solid Earth

Fall 2019
TUT Section: T1   TR 11:20 am - 12:35 pm   Paul M. Karabinos
LAB Section: T2   R 1:00 pm - 4:00 pm   Paul M. Karabinos

GEOS 411  (F)  Geobiology
Geobiology--the study of interactions between earth and life over geologic timescales--is a new and interdisciplinary field that has grown out of exciting advances in earth and life sciences. During this course we will examine the many ways in which organisms -- from bacteria to trees -- have left their mark on our planet. Topics include the origin of life, the rise of oxygen in the earth's atmosphere, the evolution of biomineralization, the environmental context for animal evolution, the role of microbial communities in the earth system, the emergence of land plants, and the potential for planet-life interactions elsewhere in our solar system. Geobiology incorporates tools and ideas from geochemistry, paleontology, microbiology, and sedimentology. Class time will be divided between lectures and student-led discussions of primary literature. Labs will be varied and involve everything from growing our own microbial ecosystems to querying online databases and analyzing geological, geochemical, genetic, and paleontological data. Our field trip will take us to Upstate New York where we will sample water from a stratified lake and visit ancient microbial fossil reefs. The final project will involve writing a proposal in small groups on a geobiological topic based on the style and format of a National Science Foundation grant, and presenting the idea to the class.

Class Format: seminar; two lecture/seminars a week plus a lab
Requirements/Evaluation: labs, short papers, final grant proposal and presentation
Prerequisites: GEOS 212 or GEOS 312T; or GEOS 101 + any 200-level GEOS course; or permission of instructor
Enrollment Limit: 15
Enrollment Preferences: Senior Geoscience majors
Expected Class Size: 10
Grading: no pass/fail option, yes fifth course option
Distributions: (D3)
Attributes: EXPE Experiential Education Courses
HIST 259 (S) New England Environmental History (WS)

Cross-listings: ENVI 259 AMST 259 HIST 259

Secondary Cross-listing

Have you ever wondered why there are few old-growth forests in New England? What Williamstown looked like before Williams was founded? How ideas about environmental preservation have changed over time? These are some of the questions we will explore in this course, which introduces students to the discipline of Environmental History through New England examples. During the semester we will: (1) read and discuss scholarship on the environmental history of New England and the world; (2) use case studies and field trips to examine how past environments are represented in museum exhibits, digital projects, and physical landscapes; (3) Develop a research paper based on original archival research

Class Format: seminar

Requirements/Evaluation: several short essays, final project

Prerequisites: ENVI 101 or permission of the instructor

Enrollment Limit: 19

Enrollment Preferences: Environmental Studies concentrators

Expected Class Size: 15

Grading: no pass/fail option, yes fifth course option

Distributions: (D2) (WS)

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 259 (D2) AMST 259 (D2) HIST 259 (D2)

Writing Skills Notes: Six response papers for which the instructor will provide consistent feedback on writing skills as well as content. Sequenced writing workshops that lead toward a final research paper.

Attributes: ENVI Humanities, Arts + Social Science Electives EVST Culture/Humanities EXPE Experiential Education Courses HIST Group F Electives - U.S. + Canada

Not offered current academic year

HIST 264 (S) Environmental History

Cross-listings: ENVI 229 HIST 264

Secondary Cross-listing

This course is an introduction to Environmental History: the study of how people have shaped environments, how environments have shaped human histories, and how cultural change and material change are intertwined. As such, it challenges traditional divides between the humanities and the sciences. Taking U.S. environmental history as our focus, we will strive to understand the historical roots of contemporary environmental problems, such as species extinction, pollution, and climate change. We will take field trips to learn to read landscapes for their histories and to examine how past environments are represented in museum exhibits, digital projects, and physical landscapes. And we will develop original arguments and essays based on archival research. It is imperative that we understand this history if we are to make informed and ethical environmental decisions at the local, national, and global scale.

Class Format: seminar with field trips

Requirements/Evaluation: several short essays; final research project

Prerequisites: ENVI 101 or permission of instructor

Enrollment Limit: 18

Enrollment Preferences: Environmental Studies majors and concentrators; History majors

Expected Class Size: 15

Grading: yes pass/fail option, no fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 229 (D2) HIST 264 (D2)

Attributes: ENVI Humanities, Arts + Social Science Electives EVST Culture/Humanities EXPE Experiential Education Courses HIST Group F
**HIST 352 (F)(S) American Maritime History (DPE) (WS)**

Cross-listings: HIST 352 MAST 352

Secondary Cross-listing

This course surveys American maritime history from the colonial era to the 21st century. We will consider the dynamic relationship between the sea and American life, and the broad influence that each has had on the other. Special emphasis will be placed on how diverse peoples shaped and experienced America's maritime past. We will sample from different fields of historical inquiry including labor, environmental, cultural, political, technological, and energy history in order to gain a deeper understanding of America's maritime heritage.

Class Format: classroom discussion as well as field seminars

Requirements/Evaluation: class participation, weekly response papers, three longer papers

Extra Info: offered only at Mystic Seaport

Prerequisites: BIOL 101 or GEOS/MAST 104, or permission of instructor

Grading: no pass/fail option, no fifth course option

Distributions: (D2) (DPE) (WS)

This course is cross-listed and the prefixes carry the following divisional credit:

HIST 352 (D2) MAST 352 (D2)

Writing Skills Notes: Students must complete weekly 1-page papers, two 5-page papers, and a final 10- to 15-page paper. Additionally, students will participate in several in-class writing workshops and peer critiques that cover argument and style. Students will receive from the instructor timely comments on their writing skills, with suggestions for improvement.

Difference, Power, and Equity Notes: Maritime activity has long provided opportunities for some while burdening others with tremendous costs. From the slave trade and the encounters between native and European mariners to the power wielded by multi-national shipping conglomerates, this course investigates contests over power, empire, and capitalism as they played out on the maritime stage.

Attributes: AMST Space and Place Electives ENVI Humanities, Arts + Social Science Electives EXPE Experiential Education Courses HIST Group F Electives - U.S. + Canada HIST Group P Electives - Premodern

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**LATS 220 (F) Introduction to Urban Studies: Shaping and Living the City**

Cross-listings: AMST 221 ENVI 221 LATS 220

Primary Cross-listing

Generally, cities have been described either as vibrant commercial and cultural centers or as violent and decaying urban slums. In an effort to begin to think more critically about cities, this course introduces important topics in the interdisciplinary field of Urban Studies. Specifically, we will discuss concepts and theories used to examine the peoples and structures that make up cities: In what ways do socio-cultural, economic, and political factors affect urban life and development? How are cities planned and used by various stakeholders (politicians, developers, businesses, and residents)? How do people make meaning of the places they inhabit? We will pay particular attention to the roles of race, ethnicity, class, and gender in understanding and interpreting urban communities. Texts include works by anthropologists, historians, sociologists, cultural critics, cultural geographers, and literary writers.

Class Format: lecture/discussion

Requirements/Evaluation: evaluation will be based on attendance and class participation, several short writing assignments (1-2 pages), two creative group projects and presentations, a midterm essay (6-7 pages) and final essay (8-10 pages)
Prerequisites: none

Enrollment Limit: 20

Enrollment Preferences: first and second year students as well as American Studies majors and Latina/o Studies concentrators

Expected Class Size: 20

Grading: no pass/fail option, no fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:
AMST 221 (D2) ENVI 221 (D2) LATS 220 (D2)

Attributes: AMST Comp Studies in Race, Ethnicity, Diaspora AMST Space and Place Electives ASAM Related Courses ENVI Humanities, Arts + Social Science Electives EXPE Experiential Education Courses GBST Urbanizing World Electives LATS Core Electives

Not offered current academic year

LATS 241 (F) Performing Masculinity in Global Popular Culture

Cross-listings: WGSS 240 THEA 241 SOC 240 AMST 241 LATS 241

Secondary Cross-listing

This course examines popular cultural contexts, asking what it means to be a man in contemporary societies. We focus on the manufacture and marketing of masculinity in advertising, fashion, TV/film, theater, popular music, and the shifting contours of masculinity in everyday life, asking: how does political economy change the ideal shape, appearance, and performance of men? How have products-ranging from beer to deodorant to cigarettes—had their use value articulated in gendered ways? Why must masculinity be the purview of "males" at all; how can we change discourses to better include performances of female masculinities, butch-identified women, and trans* men? We will pay particular attention to racialized, queer, and subaltern masculinities. Some of our case studies include: the short half-life of the boy band in the US and in Asia (e.g., J/K-Pop), hip hop masculinities at home and abroad, and the curious blend of chastity and homoeroticism that constitutes masculinity in the contemporary vampire genre. Through these and other examples, we learn to recognize masculinity as a performance shaped by the political economy of a given culture. The course includes a field trip to a drag performance in Northampton.

Class Format: seminar

Requirements/Evaluation: masculinity journal, mid-term essay, visual analyses of pop culture artifact, choice of final essay or 12 page final paper

Prerequisites: none

Enrollment Limit: 20

Enrollment Preferences: in the event of over-enrollment, a short statement of interest will be solicited

Expected Class Size: 20

Grading: yes pass/fail option, yes fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:
WGSS 240 (D2) THEA 241 (D2) SOC 240 (D2) AMST 241 (D2) LATS 241 (D2)

Attributes: EXPE Experiential Education Courses FMST Related Courses LATS Comparative Race + Ethnic Studies Electives

Not offered current academic year

LATS 252 (S) Puerto Rico and its Diaspora

Cross-listings: AMST 252 LATS 252

Primary Cross-listing

On September 20, 2018, Maria—a category four hurricane made landfall on Puerto Rico. The most powerful storm to hit the island since 1932, Maria caused widespread catastrophic damage on a land already suffering from the devastating effects of a decades-long economic recession. Three months after the hurricane, half the island remained without power, water service yet to be reestablished in many areas, and aid distribution inadequate and inconsistent. The hurricane and its aftermath brought mainstream U.S. attention to Puerto Rico and its diaspora, while simultaneously calling attention to the island's status and relationship to the United States. This hybrid onsite-Skype-travel course is for students interested in learning about the historical, social, and political relationship between Puerto Rico and the United States. We will examine, for example, the political status of Puerto Rico, migration, race, social movements, and expressive cultural forms that have emerged as a result of this asymmetrical relationship.
Through the study of the impact and legacy of U.S. policies on the island, we will also consider how the fiscal and humanitarian crisis and proposed solutions affect the daily collective lives of the people in the U.S. territory and the diaspora. This course is a unique collaboration between Vassar, Williams, and the UPR. To enroll in this course, students must commit to participating in an alternative spring break/community engagement project in Puerto Rico and flexible with possible changes in class time when Skyping with students from the University of Puerto Rico. We will gather in Puerto Rico to meet with peers from UPR and for an alternative spring break collaboration, interfacing with various community organizations that have taken up vital social, medical, and economic roles vacated by the United States. Taller Salud, PECES, and Casa Pueblo are among the organizations in Puerto Rico that students may work with as a part of the course's community engagement component.

**Class Format:** seminar; to enroll in this course, students must commit to participating in an alternative spring break/community engagement learning project in Puerto Rico

**Requirements/Evaluation:** class participation, short writing exercises, group work/project, a midterm essay (5-7 pages), and a final essay (10-12 pages)

**Prerequisites:** students should have some fluency with the Spanish language

**Enrollment Limit:** 8

**Enrollment Preferences:** should be first- and second-years, students considering an American Studies major or Latina/o Studies concentration; AMST majors and LATS concentrators.

**Expected Class Size:** 8

**Grading:** no pass/fail option, no fifth course option

**Distributions:** (D2)

This course is cross-listed and the prefixes carry the following divisional credit:

AMST 252 (D2) LATS 252 (D2)

**Attributes:** AMST Comp Studies in Race, Ethnicity, Diaspora AMST Space and Place Electives EXPE Experiential Education Courses LATS Core Electives

Not offered current academic year

**LEAD 18 (W) Wilderness Leadership in Emergency Care**

This Winter Study course is for students who would like to participate in a 9 day, 72 hour comprehensive hands on in-depth look at the standards and skills of dealing with wilderness based medical emergencies. Topics that will be covered include, Response and Assessment, Musculoskeletal Injuries, Soft Tissue Injuries, Environmental Injuries, and Survival Skills. Additional topics, such as CPR, are also included. Students will be required to successfully complete the written and practical exams, and not miss any of the 9 classes to receive credit and WFR/CPR certification.

**Class Format:** the course runs nine consecutive days straight from 9AM-5PM, with a possible one nighttime rescue exercise

**Requirements/Evaluation:** written and practical exam

**Prerequisites:** none

**Enrollment Limit:** 22

**Enrollment Preferences:** submit a statement of purpose to the instructor explaining why they want to take the course and hope to gain from the experience

**Grading:** pass/fail only

**Materials/Lab Fee:** $465

**Attributes:** EXPE Experiential Education Courses

Not offered current academic year

**MAST 104 (F) Oceanography**

Cross-listings: GEOS 104 ENVI 104 MAST 104

Secondary Cross-listing

The oceans cover about 72% of Earth's surface, yet we know the surface of Venus better than our own ocean floors. Why is that? This integrated introduction to the oceans covers formation and history of the ocean basins; the composition and origin of seawater; currents, tides, and waves; ocean-atmosphere interactions; oceans and climate; deep-marine environments; coastal processes; productivity in the oceans; and human impacts. Coastal oceanography will be investigated on an all-day field trip, hosted by the Williams-Mystic program in Connecticut. This course is in the Oceans
and Climates group for the Geosciences major.

**Class Format:** lecture/discussion, three hours per week; laboratory, two hours per week in alternate weeks/one all-day field trip

**Requirements/Evaluation:** evaluation will be based on two hour exams, lab work, participation in the field trip, and a final exam

**Prerequisites:** none

**Enrollment Limit:** 48

**Enrollment Preferences:** first-year and sophomore students, MAST concentrators

**Expected Class Size:** 48

**Grading:** yes pass/fail option, no fifth course option

**Distributions:** (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

GEOS 104 (D3) ENVI 104 (D3) MAST 104 (D3)

**Attributes:** ENVI Natural World Electives EXPE Experiential Education Courses GEOS Group A Electives - Climate + Oceans

**Fall 2019**

LAB Section: 03  R 1:00 pm - 3:00 pm  Mea S. Cook

LAB Section: 02  W 1:00 pm - 3:00 pm  Mea S. Cook

LEC Section: 01  MWF 9:00 am - 9:50 am  Mea S. Cook

**MAST 211 (F)(S)  Oceanographic Processes**

**Cross-listings:** MAST 211 GEOS 210

**Primary Cross-listing**

This course examines ocean and coastal environmental science issues including carbon dioxide and the ocean's role in climate, El Niño and other ocean-atmosphere oscillations that influence our weather, coastal erosion and other hazards, coastal pollution, and fisheries. The focus is on controlling processes with regional comparisons. Blue water oceanography is conducted in the Atlantic and comparative coastal oceanography includes trips to southern New England shores, and the West and Gulf coasts of the US as part of the Williams-Mystic program.

**Class Format:** lecture/laboratory, including coastal and near-shore field trips, 11 days offshore, and a laboratory or field research project

**Requirements/Evaluation:** two tests, a research project, and a presentation

**Extra Info:** offered only at Mystic Seaport

**Grading:** yes pass/fail option, yes fifth course option

**Distributions:** (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

MAST 211 (D3) GEOS 210 (D3)

**Attributes:** ENVI Natural World Electives EVST Living Systems Courses EXPE Experiential Education Courses GEOS Group A Electives - Climate + Oceans

**Fall 2019**

LEC Section: 01  TBA  Lisa A. Gilbert

**Spring 2020**

LEC Section: 01  TBA  Lisa A. Gilbert

**MAST 25  (W)  Material Culture and Craft of 19th Century Coastal New England**

**Cross-listings:** ENVI 26 MAST 25

**Primary Cross-listing**

The goal in this course is to provide an opportunity for students to develop an intimate understanding of 19th century Mystic through lived experience. To appreciate a culture or a community so different from what we live and experience today, you must also understand the ways in which its residents
shaped their world, specifically, the crafts they plied. There are few opportunities in life when this understanding can be delivered through lived experience. This will be one of them. Taking advantage of the extraordinary resources of Williams-Mystic, the coastal and ocean studies campus of Williams College located at the Mystic Seaport in Mystic, CT, this winter-study course, taught at Williams-Mystic, aims to: 1) provide rich hands-on participatory experiences that authentically mirror 19th century maritime craft and culture; and 2) offers learners a rare opportunity to delve deeply into the mindset of 19th century maritime culture by creating an authentic artifact that reflects understanding of the values and mores of this time period.

There will be a number of instructors; including instructors employed by the Mystic Seaport in who specialize in chanteys, shipsmithing, ship Carving, scrimshaw, canvaworks, and boatbuilding.

Class Format: Williams-Mystic
Requirements/Evaluation: performance-based evaluation using exemplars, experts and authentic audience; final paper or project
Prerequisites: none
Enrollment Limit: 12
Enrollment Preferences: by application
Grading: pass/fail only
Materials/Lab Fee: $1,500
This course is cross-listed and the prefixes carry the following divisional credit:
ENVI 26 MAST 25
Attributes: EXPE Experiential Education Courses TRVL Winter Study Travel Course
Not offered current academic year

MAST 311 (F)(S) Marine Ecology
Cross-listings: BIOL 231 MAST 311
Primary Cross-listing
Using the principles of evolutionary biology and experimental ecology, this course examines the processes that control the diversity, abundance and distribution of marine organisms. Major marine communities, including estuaries, the rocky shore, sandy beaches, salt marshes, coral reefs, and the deep sea are discussed in detail.
Class Format: lecture/laboratory, including coastal and near-shore field trips, 10 days offshore, and a laboratory or field research project
Requirements/Evaluation: two tests, a research project, and a presentation
Extra Info: offered only at Mystic Seaport
Prerequisites: BIOL 101 or GEOS/MAST 104, or permission of instructor
Grading: yes pass/fail option, yes fifth course option
Distributions: (D3)
This course is cross-listed and the prefixes carry the following divisional credit:
BIOL 231 (D3) MAST 311 (D3)
Attributes: ENVI Natural World Electives EVST Living Systems Courses EXPE Experiential Education Courses

Fall 2019
LEC Section: 01 TBA Tim J. Pusack

Spring 2020
LEC Section: 01 TBA Tim J. Pusack

MAST 324 (S) Corals and Sea Level
Cross-listings: MAST 324 ENVI 324 GEOS 324
Secondary Cross-listing
In coastal communities, increasing flood damage from storm surges and chronic inundation by seawater are already happening as a result of sea level rise. How do we know what contributes to the observed change in sea level in the last century? What does the geological record teach us about what controls the natural variation in sea level on short and long timescales? How can we use this information to separate anthropogenic effects from
natural change in modern systems? And how does this inform us on what to expect through the 21st century and beyond? In this course, we will examine how sea level is reconstructed using geological archives and how coral-based sea level data led to breakthroughs in our understanding of the long-term evolution of the ocean and climate, the controls in the timing of ice age cycles, the singularity of modern climate change, and how high the future seas will rise. During Spring Break, the class will travel to Barbados, a renowned locality for Quaternary sea level reconstruction, to observe modern and ancient reefs, and collect samples that will be the basis of individual or group projects in the second half of the semester. Participation in the Spring Break trip is not required for successful completion of the course, but course enrollment is necessary to attend the trip.

Class Format: lecture/laboratory

Requirements/Evaluation: short papers, labs, participation in discussion, and a research project

Prerequisites: GEOS 104 or GEOS 210 or GEOS 215 or MAST 311 or permission of instructor

Enrollment Limit: 10

Enrollment Preferences: Geoscience majors, students who commit to the Spring Break trip

Expected Class Size: 10

Grading: no pass/fail option, no fifth course option

Distributions: (D3)

This course is cross-listed and the prefixes carry the following divisional credit:

MAST 324 (D3) ENVI 324 (D3) GEOS 324 (D3)

Attributes: ENVI Natural World Electives EXPE Experiential Education Courses

Not offered current academic year

MAST 351 (F)(S) Marine Policy

Cross-listings: ENVI 351 PSCI 319 MAST 351

Primary Cross-listing

This seminar utilizes the interdisciplinary background of the other Williams-Mystic courses to examine national and international contemporary issues in our relationship with our ocean and marine environment. This seminar takes a topical approach to the study of ocean and coastal law and policy, examining climate change, fisheries, coastal zone management, admiralty law, marine biodiversity, ocean and coastal pollution, and ocean governance.

Class Format: lecture, discussions, guest lectures by active professionals, and includes coastal and near-shore field trips, and 10 days offshore

Requirements/Evaluation: an independent research paper, a presentation, and a final exam

Extra Info: offered only at Mystic Seaport

Grading: yes pass/fail option, yes fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:

ENVI 351 (D2) PSCI 319 (D2) MAST 351 (D2)

Attributes: ENVI Environmental Policy EXPE Experiential Education Courses POEC International Political Economy Courses

Fall 2019
LEC Section: 01 TBA Catherine Robinson Hall

Spring 2020
LEC Section: 01 TBA Catherine Robinson Hall

MAST 352 (F)(S) American Maritime History (DPE) (WS)

Cross-listings: HIST 352 MAST 352

Primary Cross-listing

This course surveys American maritime history from the colonial era to the 21st century. We will consider the dynamic relationship between the sea and American life, and the broad influence that each has had on the other. Special emphasis will be placed on how diverse peoples shaped and experienced America's maritime past. We will sample from different fields of historical inquiry including labor, environmental, cultural, political,
technological, and energy history in order to gain a deeper understanding of America's maritime heritage.

**Class Format:** classroom discussion as well as field seminars

**Requirements/Evaluation:** class participation, weekly response papers, three longer papers

**Extra Info:** offered only at Mystic Seaport

**Prerequisites:** BIOL 101 or GEOS/MAST 104, or permission of instructor

**Grading:** no pass/fail option, no fifth course option

**Distributions:** (D2) (DPE) (WS)

**This course is cross-listed and the prefixes carry the following divisional credit:**

HIST 352 (D2) MAST 352 (D2)

**Writing Skills Notes:** Students must complete weekly 1-page papers, two 5-page papers, and a final 10- to 15-page paper. Additionally, students will participate in several in-class writing workshops and peer critiques that cover argument and style. Students will receive from the instructor timely comments on their writing skills, with suggestions for improvement.

**Difference, Power, and Equity Notes:** Maritime activity has long provided opportunities for some while burdening others with tremendous costs. From the slave trade and the encounters between native and European mariners to the power wielded by multi-national shipping conglomerates, this course investigates contests over power, empire, and capitalism as they played out on the maritime stage.

**Attributes:** AMST Space and Place Electives  ENVI Humanities, Arts + Social Science Electives  EXPE Experiential Education Courses  HIST Group F Electives - U.S. + Canada  HIST Group P Electives - Premodern

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**Fall 2019**

SEM Section: 01 TBA Alicia C. Maggard

**Spring 2020**

SEM Section: 01 TBA Alicia C. Maggard

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**MATH 12  (W) The Mathematics of Lego Bricks**

This course is a modification of five previous winter studies I have done on the Mathematics of LEGO bricks. Similar to those, we will use LEGO bricks as a motivator to talk about some good mathematics (combinatorics, algorithms, efficiency). We will partner with Williamstown Elementary and teach an Adventures in Learning course (where once a week for four weeks we visit the elementary school after the day ends to work with the kids). We will also submit a Lego Ideas Challenge, to try and create a set that Lego will then market and sell.

**Class Format:** afternoons

**Requirements/Evaluation:** 2- to 3-page paper; final project

**Prerequisites:** none

**Enrollment Limit:** 30

**Enrollment Preferences:** discretion of the instructor

**Grading:** pass/fail only

**Materials/Lab Fee:** $40

**Attributes:** EXPE Experiential Education Courses

**Not offered current academic year**

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**MUS 104  (S) Jazz Theory and Improvisation I**

The theory and application of basic techniques in jazz improvisation and performance styles, including blues forms, swing, bebop, modally based composition, Afro-Cuban, etc. Appropriate for students with skill on their instrument and some basic theoretical knowledge. Knowledge of all key signatures, major/minor keys and modes, intervals, triads and basic seventh chords and their functions within keys. Students should be able to play and demonstrate these concepts on their instruments—competence on an instrument is essential (vocalists and drummers will be encouraged to study the piano). Pianists and guitarists should be able to sight read chords on a jazz lead sheet.

**Class Format:** alternates between lecture style exposition of theoretical topics and a master class where students will perform and be evaluated on assigned repertoire
Requirements/Evaluation: evaluation will be based on weekly assignments, (e.g., harmonic analysis and exercises in transposition and transcription), a midterm, a transcription project and the end of semester concert, as well as improvement as measured in weekly class performance.

Extra Info: this course will share aural skills labs with MUS 104a; students considering taking this course should consult the lab times and plan their schedules accordingly.

Prerequisites: MUS 103 and/or permission of instructor; musical literacy required as per above description; private study on student's individual instruction strongly encouraged.

Enrollment Limit: 15

Enrollment Preferences: prospective Music majors, then Jazz Ensemble members, then Music majors

Expected Class Size: 12

Grading: no pass/fail option, yes fifth course option

Distributions: (D1)

Attributes: EXPE Experiential Education Courses

Spring 2020

LAB Section: B2 Cancelled
LAB Section: B4 Cancelled
SEM Section: B1 Cancelled
LAB Section: B3 Cancelled

MUS 16 (W) Zimbabwean Music Collaboration

This course focuses on teaching Zimbabwean music performance. Besides introducing a selection of basic songs on mbira, marimba and voice, the course explores orchestration of such music on other instruments such as brass, woodwinds, strings and additional percussion. The course content will trace both continuity and change in music from traditional song styles into African popular music. Beside the instrumental practice of the class, we will watch on YouTube and other videos the collaborative nature of this music. The class will end with an end-of-Winter Study performance by the participants.

Class Format: mornings

Requirements/Evaluation: final performance

Prerequisites: none, but students who play other instruments are encouraged to bring them

Enrollment Limit: 12

Enrollment Preferences: students with musical background; those who play other instruments may have an advantage

Grading: pass/fail only

Materials/Lab Fee: none

Attributes: EXPE Experiential Education Courses

Not offered current academic year

MUS 174 (F) The Singing Voice: Structure, Styles and Meaning

What makes an opera singer sound different than a rock singer? Why can't one convincingly sing in the style of the other? And why is the former granted a higher status and the latter a wider audience? This course examines the world of singing styles and engages these styles from multiple angles: through listening, readings, film viewing and, above all, through singing. The class will learn the basics of yodeling, Tuvan throat singing, and belting, among other styles, and will explore the cultural and historical contexts of each.

Class Format: lecture/studio/discussion

Requirements/Evaluation: evaluation will be based on one quiz, two papers, and a final project

Prerequisites: none

Enrollment Limit: 10

Enrollment Preferences: juniors and seniors

Expected Class Size: 10
MUS 204 (S) Jazz Theory and Improvisation II

Cross-listings: MUS 204 AFR 214

Primary Cross-listing

A continuation of MUS 104b, this course builds upon theoretical knowledge, performance and aural skills developed previously. Students will deal with more complex theoretical and performance issues, including the use of symmetric scales, strategies for chord reharmonization, pentatonic and hexatonic scale shapes, and Coltrane's "Three Tonic" harmonic system.

Class Format: two weekly seminar meetings, alternating between theory and performance sessions

Requirements/Evaluation: weekly compositional, analysis, transcription or performance exercises and final transcription project

Prerequisites: MUS 104b or permission of instructor

Enrollment Limit: 12

Enrollment Preferences: Music majors and Jazz Ensemble members

Expected Class Size: 5-8

Grading: yes pass/fail option, yes fifth course option

Distributions: (D1)

This course is cross-listed and the prefixes carry the following divisional credit:
MUS 204 (D1) AFR 214 (D2)

Attributes: EXPE Experiential Education Courses

Not offered current academic year

MUS 205 (F)(S) Composition I

Beginning courses in musical composition. Size and number of required projects will vary from 4 to 5. Each assignment will represent 25% of the student's final grade. A group meeting per week will deal with the presentation of the student's work in progress, analysis of models for composition, performance of work in class, and critiquing of work. There will be a weekly individual meeting with the instructor to discuss each student's progress. Students must also be available for performances and reading of work outside normal class time and the instructor and students will work together to ensure that all work written during the semester is actually performed.

Class Format: seminar

Requirements/Evaluation: evaluation based on the quality and timeliness of composition projects, attendance, and class participation

Prerequisites: MUS 202 (may be taken concurrently) or permission of instructor

Enrollment Limit: 6

Enrollment Preferences: Music majors; consideration of non-majors based on qualifications and experience

Expected Class Size: 4

Grading: no pass/fail option, no fifth course option

Distributions: (D1)

Attributes: EXPE Experiential Education Courses

Fall 2019

SEM Section: 01  MR 1:10 pm - 2:25 pm  Zachary Wadsworth

Spring 2020

SEM Section: 01  MR 1:10 pm - 2:25 pm  Ileana Perez Velazquez
MUS 206 (F)(S) Composition II

Beginning courses in musical composition. Size and number of required assignments will vary from 3 to 6 in addition to a possible full semester composition project. One to two group meetings per week will deal with the presentation of new assignments, analysis of models for composition, performance of work in class, and critiquing of work. Individual meetings may be added to deal with individual needs. Students must also be available for performances and reading of work outside normal class time and the instructor and students will work together to ensure that all work written during the semester is actually performed.

Class Format: seminar

Requirements/Evaluation: evaluation based on the quality and timeliness of composition projects, attendance, and class participation

Prerequisites: MUS 202 (may be taken concurrently) and permission of instructor

Enrollment Limit: 6

Enrollment Preferences: Music majors; consideration of non-majors based on qualifications and experience

Expected Class Size: 4

Grading: no pass/fail option, no fifth course option

Distributions: (D1)

Attributes: EXPE Experiential Education Courses

Fall 2019
SEM Section: 01 MR 1:10 pm - 2:25 pm Zachary Wadsworth

Spring 2020
SEM Section: 01 MR 1:10 pm - 2:25 pm Ileana Perez Velazquez

MUS 309 (S) Jazz Arranging and Composition

This is a course designed to acquaint the student with the basic principles of composing and arranging for Jazz Ensemble, beginning with lead sheet format and progressing through the big band. Intensive score study and some transcription from selected recordings required. Evaluation will be based on the successful completion and performance of original arrangements and/or compositions during the semester, to include several lead sheet compositions, one quintet and one sextet arrangement, and one arrangement for big band. Students must attend extra small ensemble and large ensemble rehearsals when work is being rehearsed and/or performed. A solid background in jazz chord/scale theory is required.

Class Format: weekly lecture and targeted ensemble rehearsals generally last 2 hours total; additional individual tutorial style meetings are generally an hour a week, more frequently and for longer amounts of time as needed

Requirements/Evaluation: project based 4-5 compositions/arrangements

Prerequisites: MUS 104b and permission of the instructor

Enrollment Limit: 10

Enrollment Preferences: MUS 104B or recommendation of instructor

Expected Class Size: 3-5

Grading: yes pass/fail option, yes fifth course option

Distributions: (D1)

Attributes: EXPE Experiential Education Courses

Not offered current academic year

NSCI 10 (W) The Neuroscience of Learning

An interactive and collaborative exploration of what neuroscience research reveals about how the brain learns and what factors can be influenced to facilitate successful learning. Topics include the neuroscience of attention, emotion, understanding, memory, and executive functions. Emphasis will be on the neuroscience itself with opportunities for students to make connections to their own learning processes and strategies. Students will engage in collaborative research projects that will develop their use of the medical model to evaluate primary neuroscience research studies for validity. They will develop their own evaluation systems for identifying how valid research interventions and expanded opportunities for successful learning. Students will lead class discussions based on their reading of primary research. Small groups of 2-3 students will be assigned different articles on the same topic and spend time in class. Adjunct Instructor Bio: Dr. Judy Willis ’71 combined her 15 years as a board-certified practicing neurologist with ten
subsequent years as a classroom teacher to develop her focus in the neuroscience of learning. Dr. Willis has written nine books and more than 100 articles, as well as giving invited presentations internationally, applying neuroscience research to potential interventions to facilitate successful learning. She has been on the adjunct faculty of the University of California Graduate School of Education, Santa Barbara.

Class Format: mornings

Requirements/Evaluation: 10-page paper; final project

Prerequisites: none

Enrollment Limit: 12

Enrollment Preferences: discretion of the instructor

Grading: pass/fail only

Materials/Lab Fee: none

Attributes: EXPE Experiential Education Courses

PHIL 25 (W) Eye Care and Culture in the Atlantic Coast Regions of Nicaragua

We will spend around ten days in Nicaragua, chiefly in the Atlantic Coast Autonomous Regions. Almost all of the days in those regions will be spent in clinics, where students-in conjunction with optometrists who volunteer their time for the trip-will administer eye exams, write prescriptions, and distribute glasses. While in Nicaragua, the students will keep detailed journals that they will complete following their return to Williamstown. They will interact with Nicaraguans during the eye clinics, and will have opportunities for speaking with them during evenings. Students will also be required to attend organizational and training meetings and to complete a number of relevant readings prior to the trip.

Class Format: travel

Requirements/Evaluation: performance in eye clinics, journal

Prerequisites: none; not open to first-year students

Enrollment Limit: 12

Enrollment Preferences: application essays

Grading: pass/fail only

Materials/Lab Fee: $3,700

Attributes: EXPE Experiential Education Courses TRVL Winter Study Travel Course

PHLH 25 (W) Public Health, Education, and Community Action in Rural India

This course will explore access to and reliance on public health services, NGOs, and education in a rural Indian social context. As one of the fastest growing and most populated countries in the world, India has the potential to have an enormous global impact. However, the country's future is entirely dependent upon the health of its population, specifically its most vulnerable—and most vital—members: women and children. To understand how public health and education policy can be formed and changed to address inequity and sociocultural biases, students will learn about the context of India and how local, national, and global actors currently interact with social systems. The course will begin with an orientation and introductory lectures in New Delhi. Then students will travel to rural Uttar Pradesh (UP) for 10 days for seminars with local experts and field trips to community health centers, schools, and villages. Following their trip to UP, students will travel to Rajasthan to meet NGO workers in Jaipur. The course will include an introduction to fieldwork methods and an interview project on a topic chosen by the student addressing development in India. This course will be run in partnership with the Foundation for Public Health, Education, and Development (http://fphed.org/). A UP-based organization with its own campus, FPHED's board collectively has decades of experience hosting study abroad programs, including biannual semester-long programs with the School for International Training. FPHED will assist in making all accommodations and travel arrangements, as well as making local connections with experts and translators for students. Adjunct Instructor Bio: Ms. Curtis graduated from Williams College in Spring of 2017 with a degree in Women's, Gender, and Sexuality Studies and a Concentration in Public Health. With the support of a Fulbright-Nehru student researcher fellowship, she is currently conducting community-based participatory research with FPHED on reproductive health programs in rural UP. She has spent a cumulative 11 months to-date studying and researching reproductive health in rural India.

Class Format: travel

Requirements/Evaluation: 5-page paper 2- to 3-page paper Other: Students will be required to keep a private daily journal
PHLH 402  (S)  Senior Seminar in Public Health

The capstone seminar provides concentrators with the opportunity to reflect upon and synthesize their experiential learning in the context of understanding gained from a cohesive set of elective courses, and through the lens of a variety of intellectual and disciplinary frameworks. A second goal is to give concentrators experience working in a multi-disciplinary team to address a real-world, and in many cases very daunting, public health problem. Students will read, discuss, and compose written reflections on primary source empirical papers addressing a range of issues and disciplines in the field of public health. For example, topics may include the social determinants of health, environmental health risks, and access to health care. Students will also be divided into three or four research teams to investigate a contemporary real-life issue in public health by designing a study: collecting and analyzing data; and disseminating findings by written report and formal oral presentation to the public health advisory committee faculty. The capstone course is required of all concentrators, but may be opened to other students with relevant experience at the discretion of the instructor and the advisory committee, if space permits.

Class Format: seminar/lab
Requirements/Evaluation: active seminar participation, written reflections, contribution to the team research project, and a 12- to 15-page final paper
Prerequisites: completion of at least four courses counting towards the PHLH concentration
Enrollment Limit: 14
Expected Class Size: 14
Grading: no pass/fail option, no fifth course option
Distributions: No divisional credit
Attributes: EXPE Experiential Education Courses  PHLH Core Courses

PHYS 15  (W)  Cooking for the Real World

Cross-listings: PHYS 15  SPEC 13

Primary Cross-listing
The course assumes you know nothing about cooking, and, with that in mind, will focus on the basics. The course will teach you how to prepare simple, healthy, and delicious food. You'll learn about basic knife skills, sanitary kitchen practices, cooking equipment and menu planning. Some of the foods you will learn to make during the course of winter study will include Mac 'n Cheese, quick breads, soups and salads, pie crusts and cookies. Time permitting, we may take a field trip to a local farm. You will also get to meet with some local chefs to help you understand why everything we do revolves around food. The reading list will include: Kitchen Confidential, by Anthony Bourdain, The Flavor Bible: The Essential Guide to Culinary Creativity, Based on the Wisdom of America's Most Imaginative Chefs, by Karen Page and Andrew Dornenburg, and one of the basics cookbook.

Class Format: MWF 3-5:30pm
Requirements/Evaluation: daily journal and a final cooking demonstration
Prerequisites: none
Enrollment Limit: 12
Enrollment Preferences: limited to juniors and seniors but would like an email from the students applying on what food means to them
**Grading:** pass/fail only

**Materials/Lab Fee:** none

This course is cross-listed and the prefixes carry the following divisional credit:

PHYS 15 SPEC 13

**Attributes:** EXPE Experiential Education Courses

Not offered current academic year

**PHYS 16 (W) The Way Things Work**

How does a motor run? What do chocolate and steel have in common? How does Williams heat and power the campus? Can paper be washed? What's inside everyday appliances? How do you build a speaker? From simple machines to complex processes, in this course we'll explore the way things work! Class will meet three afternoons a week for a mixture of lecture, discussion, local field trips, and lots of hands-on exploration. Homework will primarily consist of readings and exercises relevant to the current class topics and extra tinker-time. In the last part of the course, students will have a chance to explore the functioning of some process, object, or technology of their choice.

**Class Format:** afternoons

**Requirements/Evaluation:** either building a final project with a short writeup or writing a 10-page paper, and a presentation to the class

**Prerequisites:** none

**Enrollment Limit:** 16

**Enrollment Preferences:** by seniority

**Grading:** pass/fail only

**Materials/Lab Fee:** $40 plus cost of books

**Attributes:** EXPE Experiential Education Courses

Not offered current academic year

**POEC 402 (S) Political Economy of Public Policy Issues**

In this course, students form groups that conduct a political and economic analysis of a public policy issue of their choosing. They do extensive reading, conduct interviews in Washington, D.C. (during spring recess), write a major report on their findings and recommendations, and present and defend their findings in a public talk. Students visit Washington, D.C. Sunday night through Wednesday of the first week of spring vacation to conduct interviews relating to their group projects. This is a course requirement.

**Class Format:** seminar with student presentations

**Requirements/Evaluation:** group policy projects including an 80- to 100-page paper and 2-hour presentation

**Prerequisites:** POEC 253 or ECON 255, POEC 250, POEC 401; open only to Political Economy majors

**Grading:** no pass/fail option, no fifth course option

**Unit Notes:** required for the Political Economy major

**Distributions:** (D2)

**Attributes:** EXPE Experiential Education Courses POEC Required Courses

Spring 2020

SEM Section: 01 TF 1:10 pm - 2:25 pm William M. Gentry, Sidney A. Rothstein

**PSCI 118 (F) Power to the People?**

Popular unrest. The resurgence of authoritarian styles and practices in politics. Democratic collapse. Political tumult around the globe in recent decades has put elites, and others, on edge as young democracies have collapsed and longer standing ones appear to be stumbling. In the United States, basic stability and democratic expansion have been accompanied by increasing citizen distrust of institutions, growing social divisions, and contestation over basic citizenship rights. Acute observers have long seen the U.S. as a harbinger of the promise and peril of modern democracies. What is the fate of democracy in the U.S.? What does that portend, if anything, for other democracies, or for the general principle of popular sovereignty--the idea that the people govern themselves? We investigate these and related questions by actively consulting political theory and...
empirical research in the social sciences. Our investigation will include class-time collaboration with a similarly structured undergraduate course being taught by a sociologist at the University of North Carolina and may include an optional weekend study trip.

**Class Format:** seminar

**Requirements/Evaluation:** active class participation, three 5-page essays, several short additional writing assignments, and class presentation

**Prerequisites:** first-year students

**Enrollment Limit:** 19

**Enrollment Preferences:** first-year students

**Expected Class Size:** 19

**Grading:** no pass/fail option, no fifth course option

**Distributions:** (D2)

**Attributes:** EXPE Experiential Education Courses PSCI American Politics Courses

Not offered current academic year

**PSCI 319 (F)(S) Marine Policy**

**Cross-listings:** ENVI 351 PSCI 319 MAST 351

**Secondary Cross-listing**

This seminar utilizes the interdisciplinary background of the other Williams-Mystic courses to examine national and international contemporary issues in our relationship with our ocean and marine environment. This seminar takes a topical approach to the study of ocean and coastal law and policy, examining climate change, fisheries, coastal zone management, admiralty law, marine biodiversity, ocean and coastal pollution, and ocean governance.

**Class Format:** lecture, discussions, guest lectures by active professionals, and includes coastal and near-shore field trips, and 10 days offshore

**Requirements/Evaluation:** an independent research paper, a presentation, and a final exam

**Extra Info:** offered only at Mystic Seaport

**Grading:** yes pass/fail option, yes fifth course option

**Distributions:** (D2)

**This course is cross-listed and the prefixes carry the following divisional credit:**

ENVI 351 (D2) PSCI 319 (D2) MAST 351 (D2)

**Attributes:** ENVI Environmental Policy EXPE Experiential Education Courses POEC International Political Economy Courses

Fall 2019

LEC Section: 01 TBA Catherine Robinson Hall

Spring 2020

LEC Section: 01 TBA Catherine Robinson Hall

**PSYC 14 (W) JA SelCom: A Case Study in Selection Processes**

This course will explore the nature of selection processes. What does an optimal selection process look like? How do our implicit biases materialize in selection? These are just a few of the questions that we will seek to understand through guest speakers from The Davis Center, Psychology Department, Admissions, and the Career Center. The majority of the time will be dedicated towards applying these ideas in selecting the next class of Junior Advisors, an undertaking that will allow students to examine selection processes in general. Readings will cover topics such as organizational behavior and human decision processes, social networks and organizational dynamics, and gendered wording and inequality.

**Class Format:** mornings and afternoons

**Requirements/Evaluation:** 10-page paper

**Prerequisites:** none

**Enrollment Limit:** 25

**Enrollment Preferences:** preference given to sophomores and admission is based on quality of the application
Grading: pass/fail only
Materials/Lab Fee: none
Attributes: EXPE Experiential Education Courses
Not offered current academic year

PSYC 15 (W) Ephquilts! An Introduction to Traditional Quilting

This studio course will lead the student through various piecing, appliqué and quilting styles and techniques, with some non-traditional methods included. Samples will be made of techniques learned, culminating in the completion of a sizeable project of the student's choosing (wall quilt or lap-size quilt). There will be an exhibit of all work (ephquilts), at the end of winter study. "Woven" into the classes will be discussions of the history of quilting, the controversy of "art" quilts vs. "traditional" quilts, machine vs. hand-quilting and the growing quilting market. Reading list: *Pieces of the Past* by Nancy J. Martin; *Stitching Memories: African-American Story Quilts* by Eva Ungar Grudin; *Sunshine and Shadow: The Amish and Their Quilts* by Phyllis Haders; *A People and Their Quilts* by John Rice Irwin; *Treasury of American Quilts* by Cyril Nelson and Carter Houck; *The Quilt: New Directions for an American Tradition*, Nancy Roe, Editor. Requirements: attendance of all classes (including field trip), a love of fabric, design and color, an enthusiasm for handwork, participation in exhibit. Extensive time will be spent outside of class working on assigned projects. 

Adjunct Instructor Bio: Debra Rogers-Gillig, one of the top quilters in New England, has been quilting for over 35 years, and teaching classes and coordinating shows and exhibits for 30 years. She has received numerous prizes and awards from quilt shows in New York and New England and been published in quilt magazines.

Class Format: afternoons
Requirements/Evaluation: formal public exhibit
Prerequisites: none
Enrollment Limit: 12
Enrollment Preferences: preference given to seniors, juniors, first years
Grading: pass/fail only
Materials/Lab Fee: cost to student $250
Attributes: EXPE Experiential Education Courses
Not offered current academic year

PSYC 21 (W) Psychology Internships

Would you like to explore applications of psychology in the "real world?" This course gives students an opportunity to work full-time during Winter Study in a mental health, business, education, law or other setting in which psychological theories and methods are applied to solve problems. Students are responsible for locating their own potential internships whether in the local area, their hometowns, or elsewhere, and are welcome to contact the course instructor for suggestions on how to do this. In any case, all students considering this course must consult with the instructor about the suitability of the internship being considered before the Winter Study registration period. Please prepare a brief description of the proposed placement, noting its relevance to psychology, and the name and contact information of the agency supervisor. Before Thanksgiving break, the student will provide a letter from the agency supervisor which describes the agency, and the student's role and responsibilities during Winter Study. Enrolled students will meet the instructor before Winter Study to discuss matters relating to ethics and their goals for the course, and after Winter Study to discuss their experiences and reflections.

Class Format: by appointment
Requirements/Evaluation: evaluation will be based on a 10-page minimum final paper summarizing the student's experiences and reflections, a journal kept throughout the experience, and the supervisor's evaluation
Prerequisites: approval by Noah Sandstrom is required
Enrollment Limit: 20
Enrollment Preferences: random selection
Grading: pass/fail only
Materials/Lab Fee: none
Attributes: EXPE Experiential Education Courses
Not offered current academic year
PSYC 352 (F) Clinical and Community Psychology
This course provides an overview of theory, methods, and professional issues in the fields of clinical and community psychology (and related fields). In addition to academic work (primary source readings and class discussions), students are encouraged to apply their experiences in academic psychology to field settings, and to use their fieldwork experience to critically evaluate theory and research. The course includes a supervised field-work placement arranged by the instructor in a local mental health or social service agency. Students must complete a brief survey about their interests and schedule in order to place them in an agency. Students should email the instructor to obtain the survey as well as receive permission to register for this course.

Class Format: seminar
Requirements/Evaluation: field work (six hours per week), two 5-page position papers, and a 12- to 15-page final paper
Prerequisites: PSYC 252
Enrollment Limit: 15
Enrollment Preferences: senior, then junior, Psychology majors; you MUST have permission of instructor to register for this course
Expected Class Size: 15
Grading: no pass/fail option, no fifth course option
Distributions: (D2)
Attributes: EXPE Experiential Education Courses PHLH Reproductive, Maternal and Child Health PSYC Area 5 - Clinical Psychology
Not offered current academic year

PSYC 372 (F) Advanced Seminar in Teaching and Learning
This advanced seminar will give students an opportunity to connect theory to practice. Each student will have a teaching placement in a local school, and participate in both peer and individual supervision. In addition, we will read a range of texts that examine different approaches to teaching, as well as theory and research on the process of education. What is the best way to teach? How do various theories of child development and teaching translate into everyday practices with students? Students will be encouraged to reflect on and modify their own teaching practices as a result of what we read as well as their supervision. Questions we will discuss include: What is the relationship between educational goals and curriculum development? What is the relation between substance (knowledge, skills, content) and the interpersonal dynamic inherent in a classroom setting? How do we assess teaching practices and the students' learning? What does it take to be an educated person?

Class Format: seminar
Requirements/Evaluation: this course involves a field placement, weekly readings, as well as seminar discussion, supervision, and a graded journal
Prerequisites: PSYC 232 or PSYC 272 or permission of instructor
Enrollment Limit: 16
Enrollment Preferences: Psychology majors and those who plan to become teachers
Expected Class Size: 16
Grading: no pass/fail option, no fifth course option
Distributions: (D2)
Attributes: EXPE Experiential Education Courses PSYC Area 7 - Educational Psychology TEAC Teaching Sequence Courses
Not offered current academic year

REL 110 (F) Living Religion: The Study of Religion in Everyday Life
When studying religions, people generally turn to studying scriptures, the life and teachings of the religion's founder, and the fundamental doctrines of the religion. What this approach does not allow us to understand, however, is the way that such religious traditions actually manifest themselves in the world. This course introduces students to an alternative approach to studying religion, by exploring the way these religions are lived and experienced by individuals and communities in a variety of contexts. We will see how religion intersects with people's lived experiences of gender, race, class, sexuality, and broader socio-cultural and political contexts. We will explore this approach to religion through an engagement with ethnography (the qualitative research method in the social-sciences generally described as "participant-observation"). Students will not only learn about the theory and practice of this methodology, but will also conduct their own ethnographic research project over the course of the semester. This will involve: designing a feasible project and research question, selecting local research sites and subjects, taking field-notes and conducting interviews, and finally analyzing...
data and writing an ethnographic essay.

Class Format: seminar

Requirements/Evaluation: regular reading responses, semester-long research project with frequent small assignments building up to the final product (class presentation and approximately 10-page paper)

Prerequisites: none

Enrollment Limit: 15

Enrollment Preferences: first-year students and sophomores

Expected Class Size: 12-12

Grading: yes pass/fail option, yes fifth course option

Distributions: (D2)

Attributes: EXPE Experiential Education Courses

Not offered current academic year

REL 228 (F) Zen and the Art of American Literature

Cross-listings: AMST 238 COMP 238 REL 228 ENGL 239

Secondary Cross-listing

In 1844, the Transcendentalist magazine, The Dial, published an excerpt from the Lotus Sutra, translated into English by Elizabeth Palmer Peabody. It was the first English-language version of any Buddhist text to be published in the United States. At the time, very few Americans knew the first thing about what Buddhism was, but now, a little over a century and a half later, Buddhist ideas and practices seem ubiquitous (available even in the form of apps like Headspace and Calm). In this class, we'll explore how Buddhism came to be the profoundly important cultural force in American life that it is today, looking particularly at the influence of Zen on American literature. We'll read an array of Buddhist-influenced literary texts, from the Beat poetry of the 1950s to novels like Middle Passage, A Tale for the Time Being, and Lincoln in the Bardo. But we'll also range far beyond the world of literature into a variety of other cultural domains in which Buddhism has had a deep impact, like environmentalism and deep ecology, Western psychotherapy, and Western attitudes towards death and dying. We'll also explore the role that Buddhism is playing in the fight against racism and racial injustice (from bell hooks to Black Lives Matter). And we'll engage in an experiential investigation of the benefits of incorporating contemplative practices like meditation into the classroom: students in the course will learn a variety of meditation techniques, and we'll spend some time each class practicing and reflecting upon those practices. Students will be expected to meditate outside of class as well (2-3 times per week) and keep a meditation journal. No prior experience with meditation is necessary. Just an open mind.

Class Format: lecture

Requirements/Evaluation: regular attendance, a weekly meditation journal, various informal in-class and take-home writing assignments, and a final 7- to 10-page essay

Prerequisites: any literature course at Williams or permission of the instructor

Enrollment Limit: 45

Enrollment Preferences: students will be asked to submit emails explaining why they want to take this course, which will be used to determine final enrollment; no first-years

Expected Class Size: 35

Grading: yes pass/fail option, yes fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:

AMST 238 (D2) COMP 238 (D1) REL 228 (D2) ENGL 239 (D1)

Attributes: ENGL Literary Histories C EXPE Experiential Education Courses

Fall 2019

LEC Section: 01 MW 7:00 pm - 8:15 pm Bernard J. Rhie

RUSS 25 (W) Williams in Georgia
Cross-listings: RUSS 25 SPEC 25

Primary Cross-listing

Williams has a unique program in the Republic of Georgia, which offers students the opportunity to engage in three-week-long internships in a wide variety of fields. Our students have helped in humanitarian relief organizations like Save the Children, interned in journalism at The Georgian Times, taught unemployed women computer skills at The Rustavi Project, documented wildlife, studied with a Georgian photographer, done rounds at the Institute of Cardiology, and learned about transitional economies at the Georgian National Bank. In addition to working in their chosen fields, students experience Georgian culture through museum visits, concerts, lectures, meetings with Georgian students, and excursions. Visit the sacred eleventh-century Cathedral of Svetitskhoveli and the twentieth-century Stalin Museum, see the birthplace of the wine grape in Kakheti, and explore the region where Jason sought the Golden Fleece. Participants are housed in pairs with English-speaking families in Tbilisi, Georgia’s capital city. At the end of the course, students will write a 10-page paper assessing their overall trip experience. Adjunct Bio: Vladimir Ivantsov holds a PhD in Russian Studies from McGill University (Canada). Prior to coming to Williams, he taught at McGill University and St. Petersburg State University (Russia). His research interests cover a broad spectrum of topics, including Dostoevsky, existentialism, and rock and pop culture. He published a book on the contemporary Russian writer Vladimir Makanin.

Requirements/Evaluation: 10-page paper
Prerequisites: none; knowledge of Russian or Georgian is not required
Enrollment Limit: 8
Enrollment Preferences: interested students must attend an informational meeting and submit a short essay about their interest in the course
Grading: pass/fail only
Materials/Lab Fee: $2,922
Distributions: (D1)

This course is cross-listed and the prefixes carry the following divisional credit:
RUSS 25 (D1) SPEC 25 (D1)
Attributes: EXPE Experiential Education Courses TRVL Winter Study Travel Course

Not offered current academic year

SCST 265 (F) Digital Performance Lab

Cross-listings: SCST 265 THEA 265

Secondary Cross-listing

A collaborative laboratory investigating the intersection of live art and new media, this studio course explores the opportunities for (and problems of) performing through various media. Using audio, video, web-based, interactive, algorithmic, and analog platforms, students will perform research and create performances that examine liveness, broadcasting, digital stages, networking, and what it means to be both a spectator and a maker in the digital age. Students will develop technical and collaborative skills in artistic and new media production, gain fluency in contemporary theories of liveness, performance, and visual culture, and will research historical and current trends in mediatized performance practices. Platforms/technologies/media forms that may be considered include Twitter, live radio, in-ear monitors, algorithmic composition, bots, video games, live streaming, VJ software, interactive audio, sensors, soundwalks, Snapchat, VR, and surveillance.

Class Format: studio and lab
Requirements/Evaluation: bi-weekly projects and presentations, bi-weekly 2-page critical writing assignments, class participation, work ethic, and collaborative skills
Prerequisites: none
Enrollment Limit: 20
Enrollment Preferences: none
Expected Class Size: 6
Grading: no pass/fail option, yes fifth course option
Materials/Lab Fee: $100
Distributions: (D1)

This course is cross-listed and the prefixes carry the following divisional credit:
SCST 265 (D2) THEA 265 (D1)
SOC 236 (S) Making Things Visible: Adventures in Documentary Work

Cross-listings: ENGL 237  ARTH 237  SOC 236  AMST 236

Primary Cross-listing

Photography, like ethnography, is an art of looking carefully and taking notice. This course will explore the overlaps between documentary photography and field methods of social science, concentrating particularly on the genre in which the two intersect: the photo essay. The students will learn methods of visual narrative and storytelling, using techniques of interviewing, still photography, and video. Concurrently, we will explore a number of examples of investigative work that blend word and image. We will ask questions about the changing practices and expectations associated with the documentarian's role, and the evolving media in which such work can be presented. Lastly, we will discuss ethical questions that haunt documentary work, including issues of responsibility and politics of representation, as well as the perennial question of whether "objective representation" is even possible or desirable. Experience in photography and/or video is not required, but students will be expected to master basic technical skills in image acquisition and audio editing taught in a separate lab section. Students should also be prepared to interact extensively with people in the community and spend a significant time off campus doing fieldwork.

Class Format: seminar

Requirements/Evaluation: full participation in discussions, weekly photographic assignments, a research journal, field materials, and an independent final project; in addition to substantial readings, students should be prepared to spend a significant time out of the classroom doing field work

Prerequisites: none

Enrollment Limit: 12

Enrollment Preferences: Anthropology and Sociology majors

Expected Class Size: 12

Grading: no pass/fail option, no fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:

ENGL 237 (D2) ARTH 237 (D1) SOC 236 (D2) AMST 236 (D2)

Attributes: EXPE Experiential Education Courses  FMST Related Courses

Not offered current academic year

SOC 240 (F) Performing Masculinity in Global Popular Culture

Cross-listings: WGSS 240  THEA 241  SOC 240  AMST 241  LATS 241

Secondary Cross-listing

This course examines popular cultural contexts, asking what it means to be a man in contemporary societies. We focus on the manufacture and marketing of masculinity in advertising, fashion, TV/film, theater, popular music, and the shifting contours of masculinity in everyday life, asking: how does political economy change the ideal shape, appearance, and performance of men? How have products - ranging from beer to deodorant to cigarettes -- had their use value articulated in gendered ways? Why must masculinity be the purview of "males" at all; how can we change discourses to better include performances of female masculinities, butch-identified women, and trans* men? We will pay particular attention to racialized, queer, and subaltern masculinities. Some of our case studies include: the short half-life of the boy band in the US and in Asia (e.g., J/K-Pop), hip hop masculinities at home and abroad, and the curious blend of chastity and homoeroticism that constitutes masculinity in the contemporary vampire genre. Through these and other examples, we learn to recognize masculinity as a performance shaped by the political economy of a given culture. The course includes a field trip to a drag performance in Northampton.

Class Format: seminar

Requirements/Evaluation: masculinity journal, mid-term essay, visual analyses of pop culture artifact, choice of final essay or 12 page final paper

Prerequisites: none

Enrollment Limit: 20

Enrollment Preferences: in the event of over-enrollment, a short statement of interest will be solicited

Expected Class Size: 20
Grading: yes pass/fail option, yes fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:
WGSS 240 (D2) THEA 241 (D2) SOC 240 (D2) AMST 241 (D2) LATS 241 (D2)

Attributes: EXPE Experiential Education Courses FMST Related Courses LATS Comparative Race + Ethnic Studies Electives

Not offered current academic year

SPEC 13 (W) Cooking for the Real World

Cross-listings: PHYS 15  SPEC 13

Secondary Cross-listing

The course assumes you know nothing about cooking, and, with that in mind, will focus on the basics. The course will teach you how to prepare simple, healthy, and delicious food. You’ll learn about basic knife skills, sanitary kitchen practices, cooking equipment and menu planning. Some of the foods you will learn to make during the course of winter study will include Mac’n Cheese, quick breads, soups and salads, pie crusts and cookies. Time permitting, we may take a field trip to a local farm. You will also get to meet with some local chefs to help you understand why everything we do revolves around food. The reading list will include: Kitchen Confidential, by Anthony Bourdain, The Flavor Bible: The Essential Guide to Culinary Creativity, Based on the Wisdom of America's Most Imaginative Chefs, by Karen Page and Andrew Dornenburg, and one of the basics cookbook.

Class Format: MWF 3-5:30pm

Requirements/Evaluation: daily journal and a final cooking demonstration

Prerequisites: none

Enrollment Limit: 12

Enrollment Preferences: limited to juniors and seniors but would like an email from the students applying on what food means to them

Grading: pass/fail only

Materials/Lab Fee: none

This course is cross-listed and the prefixes carry the following divisional credit:

PHYS 15 SPEC 13

Attributes: EXPE Experiential Education Courses

Not offered current academic year

SPEC 19 (W) Healthcare Internships

Experience of a clinical environment is essential to making the decision to enter the health professions. Through this internship, students clarify their understanding of the rewards and challenges that accompany the practice of medicine (human and animal) and dentistry. Generally, a shadowing experience focuses on provider-patient interactions within out-patient and in-patient settings. These experiences provide students with the opportunity to observe clinical interactions, as well as to learn about the systems within which healthcare is delivered. Students will also be introduced to core concepts of population health, providing a broad perspective on health outcomes within a geographic region and expanding their perspective on the individual clinical interactions which they observe. This course will encourage participants to reflect on their clinical experiences with a dual focus- from the perspective of the individual provider-patient relationship and within a systems-level context. Weekly didactic sessions (3) will focus on “substance abuse” as a thematic construct for the discussion of related chronic and acute conditions frequently encountered in clinical and social/behavioral contexts. The thematic focus on substance abuse will allow students to reflect on their clinical experiences across a wide range of clinical specialties and also to engage in discussion of a public health crisis affecting quality of life across the lifespans of Berkshires residents. By the end of the course, students will demonstrate greater understanding of the fundamentals of patient-provider interactions. Students will also demonstrate an enhanced awareness of the systems through which medical care is delivered and the challenges of health care delivery within a rural community. Students will also be expected to reflect on their clinical experiences through didactic sessions and case presentations, as well as in a final paper. Adjunct Instructor Bio: Barbara Fuller is the Director of Science and Health Professions Advising.

Class Format: Students are shadowing healthcare providers for 20-25 hours per week.

Requirements/Evaluation: 10-page paper

Prerequisites: must be at least a sophomore, on the "premedical" track, and in good standing

Enrollment Limit: 30-35
Enrollment Preferences: seniors have preference
Grading: pass/fail only
Materials/Lab Fee: none
Distributions: No divisional credit
Attributes: EXPE Experiential Education Courses
Not offered current academic year

SPEC 21 (W) Experience the Workplace; an Internship with Williams Alumni/Parents
Field experience is a critical element in the decision to enter a profession. Through this internship, students can clarify their understanding of the rewards and challenges that accompany the practice of many different aspects within a profession, and understand the psychology of the workplace. Internship placements are arranged through the Career Center, with selected alumni and parents acting as on-site teaching associates. The expectation is that each student will observe some aspect of the profession for the better part of the day, five days per week. It is also expected that the teaching associate will assign a specific project to be completed within the three-to-four week duration of the course depending upon appropriateness. Participation in this winter study will require the student to quickly assess the work environment, make inferences about corporate culture, performance norms and expectations, and to take initiative not only to learn from this experience, but also to contribute where and when appropriate. Understanding the dynamics within a work environment is critical to success in any organization and this hands-on experience will illuminate lessons learned in the classroom. Upon completion of the winter study, it is expected that the student write a thorough report evaluating and interpreting the experience. Students will be required to read one of two books selected for this course. There will also be reading selected from such works as What Should I do with My Life? by Po Bronson, 2003 and Working by Studs Terkel, 2004. Interested students must attend an information meeting in late September or early October and follow up with Dawn Dellea if students have questions about specific internships listed in the SPEC 21 syllabus. Application are submitted via Handshake.
Class Format: At least 30 hours per week, 5 days per week, 6 hours per day
Requirements/Evaluation: completion of readings, daily journal, and a 5- to 7-page expository review and evaluation that will become public record as a resource for other students
Prerequisites: qualifications for internships
Enrollment Preferences: placements will be determined by the individual alum or parent sponsor based on application and possible telephone interview
Grading: pass/fail only
Materials/Lab Fee: cost of books
Attributes: EXPE Experiential Education Courses
Not offered current academic year

SPEC 22 (W) Outdoor Emergency Care
The course will develop the technical proficiency and leadership skills required to effectively and efficiently administer emergency medical care in outdoor and wilderness environments. Successful completion of all 3 sections of the course, along with demonstrating ski/snowboard proficiency, can lead to certification as a member of the National Ski Patrol. The course is based upon 1. National Ski Patrol's Outdoor Emergency Care (5th Edition), a curriculum containing textbook/web-based learning and hands-on, practical skill development 2. CPR for the Professional Rescuer 3. Approximately 18 hours of outdoor training in Ski Patrol rescue techniques Specifically, the course teaches how to recognize and provide emergency medical care for: Wounds and Burns; Environmental Emergencies (e.g., frostbite, hypothermia, heat exhaustion); Musculoskeletal Trauma (e.g., breaks, sprains, etc.); Shock, Respiratory, Poisoning, Substance abuse emergencies; Medical emergencies (e.g., heart attack, stroke, seizures, etc.) The course will teach the use of various splints, bandages, and other rescue equipment as well as methods of extrication, use of oxygen, and how to deal with unusual emergency situations such as mass casualty incidents. On-line and textbook learning will be supplemented by classroom work that includes lectures, videos, and hands-on skill development and practice. There will be a written and practical final exam. The outdoor portion of the course includes rescue toboggan handling, organization and prioritization of rescue tasks, and practical administration of emergency care in the outdoor environment. Each week there will be ~15 hours of classroom work plus ~8 hours of practical outdoor work at Jiminy Peak ski area. Homework (online and textbook based) will be required. Attendance at all classes is mandatory. The course is limited to 16 students, chosen based on ski/snowboard interest and ability as well as prior first aid experience. Adjunct Instructor Bio: Thomas Feist ('85) is a 35-year ski patroller, certified OEC Instructor and Instructor Trainer. He has taught chemistry at Williams College and served as acting director of the Williams Outing Club in 1990-91.
Class Format: mornings
SPEC 25 (W) Williams in Georgia

Cross-listings: RUSS 25 SPEC 25

Secondary Cross-listing

Williams has a unique program in the Republic of Georgia, which offers students the opportunity to engage in three-week-long internships in a wide variety of fields. Our students have helped in humanitarian relief organizations like Save the Children, interned in journalism at The Georgian Times, taught unemployed women computer skills at The Rustavi Project, documented wildlife, studied with a Georgian photographer, done rounds at the Institute of Cardiology, and learned about transitional economies at the Georgian National Bank. In addition to working in their chosen fields, students experience Georgian culture through museum visits, concerts, lectures, meetings with Georgian students, and excursions. Visit the sacred eleventh-century Cathedral of Svetitskhoveli and the twentieth-century Stalin Museum, see the birthplace of the wine grape in Kakheti, and explore the region where Jason sought the Golden Fleece. Participants are housed in pairs with English-speaking families in Tbilisi, Georgia’s capital city. At the end of the course, students will write a 10-page paper assessing their overall trip experience. Adjunct Bio: Vladimir Ivantsov holds a PhD in Russian Studies from McGill University (Canada). Prior to coming to Williams, he taught at McGill University and St. Petersburg State University (Russia). His research interests cover a broad spectrum of topics, including Dostoevsky, existentialism, and rock and pop culture. He published a book on the contemporary Russian writer Vladimir Makanin.

Requirements/Evaluation: 10-page paper
Prerequisites: none; knowledge of Russian or Georgian is not required
Enrollment Limit: 8
Enrollment Preferences: interested students must attend an informational meeting and submit a short essay about their interest in the course
Grading: pass/fail only
Materials/Lab Fee: $2,922
Distributions: (D1)

This course is cross-listed and the prefixes carry the following divisional credit:
RUSS 25 (D1) SPEC 25 (D1)

Attributes: EXPE Experiential Education Courses TRVL Winter Study Travel Course

Not offered current academic year

SPEC 26 (W) Field Work in a Bay Area Start-Up

This course is designed to give students insight into how technology start-ups work and well as a chance to practice their problem-solving skills and gain deeper insight into the customer discovery process. The course will start in Williamstown with a review of idea development tools used in today’s start-up environment, particularly those pioneered by Stanford d.School such as the Lean Start-up method, Business Model Canvas and Design Thinking. Reading will include The Lean Start-up by Eric Ries, Zero to One by Peter Thiel and Edward deBono’s Thinking Course as well as articles and podcasts. The class will be split into three teams of four students and paired with a Bay Area start-up looking to enter a new market, a new customer segment or are considering certain product modifications. The student teams will work on identifying customer needs, qualifying customer feedback and making recommendations to management. The class will tap into the strong Bay Area alumni network which will allow for visits to several different start-ups and fast-growing tech companies and compare how they approach their markets. The final project will be a ten-minute presentation to management. Student should submit a short statement of why they would like to participate and what they expect to learn. Adjunct Instructor Bio: Entrepreneur-in-Residence at Williams.

Class Format: travel
STS 250 (S) Environmental Justice (DPE)

Cross-listings: ENVI 250 STS 250

Secondary Cross-listing

How are local and global environmental problems distributed unevenly according to race, gender, and class? What are the historical, social and economic structures that create unequal exposures to environmental risks and benefits? And how does inequity shape the construction and distribution of environmental knowledge? These are some of the questions we will take up in this course, which will be reading and discussion intensive. Through readings, discussions, and case studies, we will explore EJ in both senses. Potential topics include: toxics exposure, food justice, urban planning, e-waste, unnatural hazards, nuclearism in the U.S. West, natural resources and war, and climate refugees. Occasionally, community leaders, organizers, academics, and government officials will join the class to discuss current issues.

Class Format: seminar

Requirements/Evaluation: several short essays, final essay

Prerequisites: ENVI101 or permission of the instructor

Enrollment Limit: 12

Enrollment Preferences: Environmental Studies concentrators

Expected Class Size: 10

Grading: no pass/fail option, no fifth course option

Distributions: (D2) (DPE)

This course is cross-listed and the prefixes carry the following divisional credit:

ENVI 250 (D2) STS 250 (D2)

Difference, Power, and Equity Notes: This course will explore how unequal power leads to environmental injustice. Specifically, we will analyze how local and global environmental problems are distributed unevenly according to race, gender, and class. This is a service-based learning course, and students will hone skills to address environmental injustices.

Attributes: ENVI Humanities, Arts + Social Science Electives EVST Culture/Humanities EXPE Experiential Education Courses

Spring 2020

SEM Section: 01 W 1:10 pm - 3:50 pm Laura J. Martin

STS 370 (F) Medicine, Pathology, and Power: An Ethnographic View (DPE)

Cross-listings: WGSS 371 ANTH 371 STS 370

Secondary Cross-listing

How do medical anthropologists examine and interpret health, disease, and illness today, in order to elucidate the biosocial determinants of health and health-seeking behaviors? We are particularly interested in how medical anthropologists employ ethnographic techniques including interviewing, surveys, and observant participation/participant observation—also known as 'deep hanging out.' Through experiential inquiries, we investigate the systemic health inequalities that are produced by socio-economic hierarchies, while paying particular attention to the most marginalized and vulnerable groups. Through the semester, students pursue their own individual, fieldwork-based projects on campus with students & staff. Our goal is a better understanding of the limits and strengths of ethnographic inquiry as we explore the challenges of collaborative research into health and inequality in a local world structured by diverse forces, actors, and motives. We consider how medical anthropologists: tell stories that describe and influence the
ways that patients and providers respond to a dialogic quest for health and well-being within a world structured by social inequality and suffering; interpret the biological, socio-cultural, and behavioural determinants of health at individual and population levels and seeks to mitigate the ways that health inequities are produced by social inequality and unequal access to health resources; understand biomedicine and other medical systems as scientific and cultural discourses that project their own rationalities and biases even as they try to improve health outcomes.

Class Format: seminar

Requirements/Evaluation: four fieldnotes, weekly class discussion and writing exercises, final presentation on ethnographic project

Prerequisites: none

Enrollment Limit: 19

Enrollment Preferences: Anthropology, Sociology, Women's, Gender and Sexuality Studies majors; Public Health, Science and Technology Studies concentrators

Expected Class Size: 19

Grading: no pass/fail option, no fifth course option

Distributions: (D2) (DPE)

This course is cross-listed and the prefixes carry the following divisional credit:

WGSS 371 (D2) ANTH 371 (D2) STS 370 (D2)

Difference, Power, and Equity Notes: This class examines the intersection of race, gender, class, and sexuality in structuring health outcomes and access to health resources. It theorizes the dynamics of race, gender, and class in shaping patient/provider encounters and efforts to 'improve' health outcomes within contexts of structural violence (poverty, racism, and sexism) and social suffering.

Attributes: EXPE Experiential Education Courses PHLH Methods in Public Health

Fall 2019

SEM Section: 01  W 1:10 pm - 3:50 pm  Kim Gutschow

THEA 241 (F) Performing Masculinity in Global Popular Culture

Cross-listings: WGSS 240  THEA 241  SOC 240  AMST 241  LATS 241

Secondary Cross-listing

This course examines popular cultural contexts, asking what it means to be a man in contemporary societies. We focus on the manufacture and marketing of masculinity in advertising, fashion, TV/film, theater, popular music, and the shifting contours of masculinity in everyday life, asking: how does political economy change the ideal shape, appearance, and performance of men? How have products - ranging from beer to deodorant to cigarettes -- had their use value articulated in gendered ways? Why must masculinity be the purview of "males" at all; how can we change discourses to better include performances of female masculinities, butch-identified women, and trans* men? We will pay particular attention to racialized, queer, and subaltern masculinities. Some of our case studies include: the short half-life of the boy band in the US and in Asia (e.g., J/K-Pop), hip hop masculinities at home and abroad, and the curious blend of chastity and homoeroticism that constitutes masculinity in the contemporary vampire genre. Through these and other examples, we learn to recognize masculinity as a performance shaped by the political economy of a given culture. The course includes a field trip to a drag performance in Northampton.

Class Format: seminar

Requirements/Evaluation: masculinity journal, mid-term essay, visual analyses of pop culture artifact, choice of final essay or 12 page final paper

Prerequisites: none

Enrollment Limit: 20

Enrollment Preferences: in the event of over-enrollment, a short statement of interest will be solicited

Expected Class Size: 20

Grading: yes pass/fail option, yes fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:

WGSS 240 (D2) THEA 241 (D2) SOC 240 (D2) AMST 241 (D2) LATS 241 (D2)

Attributes: EXPE Experiential Education Courses FMST Related Courses LATS Comparative Race + Ethnic Studies Electives
THEA 265  (F)  Digital Performance Lab

Cross-listings: SCST 265  THEA 265

Primary Cross-listing

A collaborative laboratory investigating the intersection of live art and new media, this studio course explores the opportunities for (and problems of) performing through various media. Using audio, video, web-based, interactive, algorithmic, and analog platforms, students will perform research and create performances that examine liveness, broadcasting, digital stages, networking, and what it means to be both a spectator and a maker in the digital age. Students will develop technical and collaborative skills in artistic and new media production, gain fluency in contemporary theories of liveness, performance, and visual culture, and will research historical and current trends in mediated performance practices. Platforms/technologies/media forms that may be considered include Twitter, live radio, in-ear monitors, algorithmic composition, bots, video games, live streaming, VJ software, interactive audio, sensors, soundwalks, Snapchat, VR, and surveillance.

Class Format: studio and lab

Requirements/Evaluation: bi-weekly projects and presentations, bi-weekly 2-page critical writing assignments, class participation, work ethic, and collaborative skills

Prerequisites: none

Enrollment Limit: 20

Enrollment Preferences: none

Expected Class Size: 6

Grading: no pass/fail option, yes fifth course option

Materials/Lab Fee: $100

Distributions: (D1)

This course is cross-listed and the prefixes carry the following divisional credit:
SCST 265 (D2) THEA 265 (D1)

Attributes: EXPE Experiential Education Courses

Not offered current academic year

THEA 330  (S)  New Orleans as Muse: Literature, Music, Art, Film and Theatre in the City

Cross-listings: AMST 331  COMP 330  THEA 330

Primary Cross-listing

This course will look at the representation of a city and how it has influenced artists. Students will read, listen to, and view a selection of the literature, music, film and art that represent the city from both pre-flooding and current re-building. Reading selections will include examples such as Harper's Weekly (Lafrcadio Hearn), The Awakening (Kate Chopin), A Streetcar Named Desire (Tennessee Williams), The Moviegoer (Walker Percy), Why New Orleans Matters (Tom Piazza), A Confederacy of Dunces (John Kennedy O'Toole), New Orleans Sketches (William Faulkner), One Dead in the Attic (Chris Rose). Film examples such as A Streetcar Named Desire, An Interview with a Vampire, The Curious Case of Benjamin Button, When the Levees Broke, Treme, Waiting for Godot (in the 9th Ward). Music selections from examples such as Louis Moreau Gottschalk, Jelly Roll Morton, Louis Armstrong, Fats Domino, The Meters, Kermit Ruffins and the Rebirth Brass Band. Art selections will come from a variety of sources such as THE OGDEN Museum of Southern Art and Prospect 1, 2, & 3.

Class Format: seminar

Requirements/Evaluation: will be on active participation, weekly response essays on film viewings, 2 short essays on class topics, a final paper and a contemporary creative project/performance

Prerequisites: none

Enrollment Limit: 12

Enrollment Preferences: none

Expected Class Size: 10

Grading: yes pass/fail option, yes fifth course option

Distributions: (D1)
THEA 335  (F)  The Culture of Carnival

Cross-listings:  THEA 335  COMP 338

Primary Cross-listing

Carnival is a regenerative festival as well as a transgressive one. It is a time for upheavals and recreating for one day, a new world order. Men dress as women, women dress as men, the poor become kings; drink and sex and outrageous behavior is sanctioned. We will look at festivals in such places as New Orleans, Venice, and Rio. Central to this course are the cultural and religious lives of these societies, and how these festivals exist politically in a modern world as theatre and adult play. A variety of sources will be used, such as newspaper accounts, films, photography, personal memoirs and essays on the subject.

Class Format: studio

Requirements/Evaluation:  students will be evaluated on regular active class participation, one oral presentation including a 5-page essay, one 15-page research final paper and participation in a group project/public parade.

Prerequisites:  none

Enrollment Limit:  20

Enrollment Preferences:  sophomores and first-year students

Expected Class Size:  18

Grading:  yes pass/fail option, yes fifth course option

Distributions:  (D1)

This course is cross-listed and the prefixes carry the following divisional credit:

THEA 335 (D1) COMP 338 (D1)

Attributes:  EXPE Experiential Education Courses

Not offered current academic year

THEA 385  (S)  The Sculptural Costume and It's Performance Potential

Cross-listings:  ARTS 385  THEA 385

Secondary Cross-listing

A team-taught studio art / theatre course designed to explore the rich territory of the wearable sculpture and its generative role in art and performance. From ritual costumes, to Carnival, to Dada performance, to Bauhaus dance, to Helio Oiticica's Parangole, and Nick Cave's sound-suits, there has been a rich tradition where sculpture and costumes merge. Students will study artists who have bridged distinctions between the theatrical costume and the sculptural object as well as produce hybrid objects that explore the range of possibilities within this collaborative practice. The students will produce object-costumes involving a wide variety of media, from recycled materials to new technologies, while striving to develop their individual artistic voices.

Class Format: studio

Requirements/Evaluation:  evaluation will be based on the quality of work produced, the depth and quality of the content and process, participation in critiques, and attendance

Prerequisites:  successful completion of any 200-level course in art studio or performing arts, or permission of the instructor

Enrollment Limit:  14

Enrollment Preferences:  Art and Theater majors

Expected Class Size:  12
WGSS 113 (F) The Feminist Poetry Movement (DPE) (WS)

Cross-listings: ENGL 113 AMST 113 WGSS 113

Secondary Cross-listing

Feminist poetry and feminist politics were so integrated in the 1960s and 1970s in America that critical essays on poets, such as Adrienne Rich and Audre Lorde, appeared in the same handbook that listed such resources for women as rape crisis centers and health clinics. This course will map the crucial alliance between feminist politics (and its major cultural and political gains) and the feminist poetry movement that became a major "tool" for building, organizing, and theorizing second-wave feminism. In order to track this political and poetic revolution, we will take an interdisciplinary approach that brings together historical, critical, and literary documents (including archival ones) and visual products (through the Object Lab of the Williams College Art Museum) that recreate the rich context of the period and help us consider the important social nature of aesthetic production. At the center of the course will be writings of major poets of the period, as well as anthologies and feminist periodicals that published their work and created a significant forum and shared space for women to articulate the politics and poetics of change. These periodicals and anthologies will also help us track the diversity of the feminist poetry movement and its intersection with issues of race, class, ethnicity, and sexuality. Ultimately, we will want to consider how poetry serves as an important tool for thinking through questions of power and injustice and what role it plays in creating necessary imaginative space in the world for expression, critique, and change.

Class Format: seminar; discussion, some lecture, project work in archives and art gallery

Requirements/Evaluation: three analysis papers (4-5 pages), creative (1-2 pages), discussion posts (5 pages), curated final project (archival exhibit with 7-page paper), presentations

Prerequisites: none

Enrollment Limit: 19

Enrollment Preferences: none

Expected Class Size: 19

Grading: yes pass/fail option, yes fifth course option

Distributions: (D2) (DPE) (WS)

This course is cross-listed and the prefixes carry the following divisional credit:

ENGL 113 (D1) AMST 113 (D2) WGSS 113 (D2)

Writing Skills Notes: Writing skills taught through a series of assignments evenly spaced throughout the semester: weekly p/f discussion posts, three four-to-five-page graded papers, one creative assignment, and a final digital research project (10-page equivalent; peer reviewed). Students receive critical feedback on written assignments a week prior to due date through conferences and Google Docs and on final graded assignments within one week with sufficient time between assignments to improve the next assignment.

Difference, Power, and Equity Notes: The course examines the effects of class, race, ethnicity, gender, and sexuality on both poetry and the movement and how women negotiated their differences within the movement, as well as in response to the dominant patriarchal culture. This course employs critical tools (feminist theory, archival research, poetics, close reading, comparative approaches) to help students question and articulate the social injustices that led to the poetry and poetics of the Women's Liberation Movement.

Attributes: AMST Critical and Cultural Theory Electives ENGL Criticism Courses EXPE Experiential Education Courses WGSS Racial Sexual + Cultural Diversity Courses WGSS Theory Courses

Fall 2019

SEM Section: 01 MWF 8:30 am - 9:45 am Bethany Hicok
WGSS 240 (F) Performing Masculinity in Global Popular Culture

Cross-listings: WGSS 240 THEA 241 SOC 240 AMST 241 LATS 241

Primary Cross-listing

This course examines popular cultural contexts, asking what it means to be a man in contemporary societies. We focus on the manufacture and marketing of masculinity in advertising, fashion, TV/film, theater, popular music, and the shifting contours of masculinity in everyday life, asking: how does political economy change the ideal shape, appearance, and performance of men? How have products - ranging from beer to deodorant to cigarettes -- had their use value articulated in gendered ways? Why must masculinity be the purview of "males" at all; how can we change discourses to better include performances of female masculinities, butch-identified women, and trans* men? We will pay particular attention to racialized, queer, and subaltern masculinities. Some of our case studies include: the short half-life of the boy band in the US and in Asia (e.g., J/K-Pop), hip hop masculinities at home and abroad, and the curious blend of chastity and homoeroticism that constitutes masculinity in the contemporary vampire genre. Through these and other examples, we learn to recognize masculinity as a performance shaped by the political economy of a given culture. The course includes a field trip to a drag performance in Northampton.

Class Format: seminar

Requirements/Evaluation: masculinity journal, mid-term essay, visual analyses of pop culture artifact, choice of final essay or 12 page final paper

Prerequisites: none

Enrollment Limit: 20

Enrollment Preferences: in the event of over-enrollment, a short statement of interest will be solicited

Expected Class Size: 20

Grading: yes pass/fail option, yes fifth course option

Distributions: (D2)

This course is cross-listed and the prefixes carry the following divisional credit:

WGSS 240 (D2) THEA 241 (D2) SOC 240 (D2) AMST 241 (D2) LATS 241 (D2)

Attributes: EXPE Experiential Education Courses FMST Related Courses LATS Comparative Race + Ethnic Studies Electives

Not offered current academic year

WGSS 371 (F) Medicine, Pathology, and Power: An Ethnographic View (DPE)

Cross-listings: WGSS 371 ANTH 371 STS 370

Secondary Cross-listing

How do medical anthropologists examine and interpret health, disease, and illness today, in order to elucidate the biosocial determinants of health and health-seeking behaviors? We are particularly interested in how medical anthropologists employ ethnographic techniques including interviewing, surveys, and observant participation/participant observation--also known as 'deep hanging out.' Through experiential inquiries, we investigate the systemic health inequalities that are produced by socio-economic hierarchies, while paying particular attention to the most marginalized and vulnerable groups. Through the semester, students pursue their own individual, fieldwork-based projects on campus with students & staff. Our goal is a better understanding of the limits and strengths of ethnographic inquiry as we explore the challenges of collaborative research into health and inequality in a local world structured by diverse forces, actors, and motives. We consider how medical anthropologists: tell stories that describe and influence the ways that patients and providers respond to a dialogic quest for health and well-being within a world structured by social inequality and suffering; interpret the biological, socio-cultural, and behavioural determinants of health at individual and population levels and seeks to mitigate the ways that health inequities are produced by social inequality and unequal access to health resources; understand biomedicine and other medical systems as scientific and cultural discourses that project their own rationalities and biases even as they try to improve health outcomes.

Class Format: seminar

Requirements/Evaluation: four fieldnotes, weekly class discussion and writing exercises, final presentation on ethnographic project

Prerequisites: none

Enrollment Limit: 19

Enrollment Preferences: Anthropology, Sociology, Women's, Gender and Sexuality Studies majors; Public Health, Science and Technology Studies concentrators

Expected Class Size: 19

Grading: no pass/fail option, no fifth course option
Distributions: (D2) (DPE)

This course is cross-listed and the prefixes carry the following divisional credit:

WGSS 371 (D2) ANTH 371 (D2) STS 370 (D2)

Difference, Power, and Equity Notes: This class examines the intersection of race, gender, class, and sexuality in structuring health outcomes and access to health resources. It theorizes the dynamics of race, gender, and class in shaping patient/provider encounters and efforts to 'improve' health outcomes within contexts of structural violence (poverty, racism, and sexism) and social suffering.

Attributes: EXPE Experiential Education Courses  PHLH Methods in Public Health

Fall 2019

SEM Section: 01  W 1:10 pm - 3:50 pm   Kim Gutschow

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