

# Courses of Instruction

## Anthropology

### **ANT 101 - Cultural Anthropology (1)**

The course provides a cross-cultural, critical perspective on human behavior and society. The diversity of human cultures from nomadic food foragers to industrialized city dwellers is examined, and the implications of subsistence, social, economic, political, and religious systems for the lives of men and women are explored through readings, videos and lively discussions. Students are provided with tools to more objectively compare other cultures with their own. Emphasis on non-Western cultures. Not open to seniors without permission of the instructor.  
(Social Science)

### **ANT 105 - Human Origins (1)**

Introduction to the study of human origins through an explicitly scientific anthropological approach. The processes and products of human evolution are surveyed from the perspectives of genetics, evolutionary theory, comparative anatomy, primatology, the fossil record, artifactual evidence, and biocultural behaviors. Course purposes include learning the basic concepts and terminology of physical anthropology to enable anthropological thinking about biocultural change through time; becoming acquainted with the basic precepts of evolutionary theory including Mendelian principles and modern genetics; exploring the relatedness of past and present human species with living and extinct primates; gaining knowledge about the basic sequence of human evolution including species names, key attributes, dates of existence, and hypothesized connections; and considering ongoing issues relating to the interaction of biology and culture in the contemporary world. Alternate years.  
(Social Science)

### **ANT 106 - Language and Culture - Linguistic Anthro (1)**

This class presents a broad survey of linguistic anthropology, focusing on language as a form of human behavior. We explore the nature and function of human language learning the ways that language reflects and informs social life. Core topics include differences between human and animal communication, ways that language functions as a formal system, language patterns that differ cross culturally, and social strategies that reflect power relationships. We address such subjects as nonverbal communication, folklore, spoken art, dialects, language origin, language acquisition and language change, including into the electronic age. This course provides you the opportunity to connect theoretical perspectives with everyday communication and understand the significance of language in your own personal and professional life.  
(Social Science)

### **ANT 110 - Archaeology (1)**

Intensive introductory-level exploration of how archaeologists use a systematic scientific approach to investigate the past. Specifics on selected past cultures will be presented although this course is not intended to be a comprehensive overview of human prehistory. Students will learn about (1) research methods for the collection of archaeological data; (2) techniques developed for interpreting archaeological site formation, relative and chronometric dating, and artifact analyses; (3) a brief history of archaeological inquiry; and (4) essential theoretical underpinnings of major archaeological paradigms. Alternate years.  
(Social Science)

### **ANT 205 - The Maya (1)**

An introduction to the intriguing cultures, philosophies, and achievements of the Maya. Ancient Maya culture, Spanish colonialism, modern events and recent Maya response, as well as history, culture, society, language, and beliefs are addressed. Materials written by Maya authors used when possible. Prerequisite: one of the following: ANT 101, ANT 106, SOC 101, SOC 102, HIS 141, LAS 141, or EST 123. Alternate years.  
(Social Science)

### **ANT 206 - West Indian People and Culture (1)**

The course will familiarize the student with the anthropological concerns of a number of topics concerning the people of the West Indies including maroonage, cultural retentions, family, religion, folklore, and cultural pluralism. In Belize students will focus on the Garifuna and their interactions with Creoles, Mayans and Hispanics. There will be several fieldtrips to places such as an archaeological site, a drumming center, a doll maker and storyteller, schools and churches. Several classes will be held at Belize's first women's co-operative. The class may also travel to San Pedro to meet with another Cornell College class - EDU 262 "Comparative Education". Taught in Belize. Entails additional costs. Prerequisites: ANT 101 and permission of Instructor. Alternate years.  
(Social Science)

### **ANT 208 - Cross-Cultural Love and Family (1)**

This course focuses on the wide variety of ways that people organize their families and their love lives around the world. Students will study the conceptualization of family and kinship, cultural definitions of relatedness, and enduring human bonds. We will focus on continuity and social change across cultures and the ways in which the meaning of family has been transformed by migration, multi-ethnic, interfaith and transnational relationships, same-sex relationships, friendships, new reproductive and genetic technologies, polygamy, and the influence of the internet.

Prerequisite: ANT 101, SOC 101, SOC 102 , SOC 273, GSS 171, or EST 123. Offered every third year.  
(Social Science)

### **ANT 210 - Religion, Magic, and Witchcraft (1)**

The course provides a cross-cultural perspective on religious beliefs, practices, and world views. Students survey some of the theoretical approaches to the study of religion, and are provided with tools to examine religions within their cultural contexts. Topics include spiritual healing, rites of passage, sorcery, witchcraft, shamanism, and syncretic religions like Hatian Vodou. Using ethnographic texts and films, students will explore some of the ways that religious and spiritual practice shape peoples' lives. Prerequisite: ANT 101 or SOC 370. Alternate years.  
(Social Science)

### **ANT 222 - Applied Anthropology (1)**

This course will explore the relationship between anthropology and contemporary world problems, especially as they impact small-scale developing countries. Focus will be on the impact of tourism on local churches, economies and ways of life as well as the impacts of labor migration, climate change and practices like overfishing that deplete local natural resources. Students will observe the various kinds of tourism that have shaped contemporary Nassau, visit plantation ruins, and attend cultural events as opportunities arise. Some classes will be combined with the biology and geology classes traveling from Cornell to the Bahamas with us. There may also be opportunities to learn from presentations given by individuals or groups visiting the Center. Taught in the Bahamas, with time in Nassau, and at the Gerace Research Center, on the island of San Salvador. Entails additional costs. Prerequisites: ANT 101 and permission of Instructor. Alternate years.  
(Social Science)

### **ANT 271 - Women, Men and Gender Roles in Cross-Cultural Perspective (1)**

Study of how gender roles are defined and reinforced in different societies, the social, economic and political roles played by women and the options available to women within different cultural contexts. Topics include the effects of war and/or military occupation on women, the trafficking of women and children, socialization, aging, symbolism, religion, and culture contact. Ethnographies, biography, videos, and discussions will be used. May count toward the SAN or GSS major. Prerequisite: ANT 101, SOC 348, SOC 366, or GSS 171. Offered every third year.  
(Social Science)

### **ANT 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **ANT 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ANT 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ANT 308 - Ritual, Symbol, and Behavior (1)**

Exploration of theories and topics in the cross-cultural study of symbolic thought and action. Emphasis on food and culture, death and dying, rites of passage and symbolism surrounding the Japanese bath. Topics include secular and religious ritual analysis, ritual space, time and drama, mythology, tricksters, social organization, and communitas. Prerequisites: ANT 101. Alternate years.  
(Social Science)

### **ANT 311 - Introduction to Archaeological Field Methods (1)**

Field course involving direct student participation in archaeological data collection through excavation of buried historic or prehistoric site deposits. Standard archaeological excavation techniques, recording of excavation context through mapping and photography, regional culture history sequences and artifact identification. Registration entails additional costs. Prerequisite: ANT 101, ANT 105, or ANT 110. Alternate years.  
(Social Science)

### **ANT 312 - Medical Anthropology (1)**

This course offers an introduction to the cross-cultural study of illness, health, disease and medical systems. We will look at how culture, political systems and economics shape experiences of and access to medicine. Using ethnographic case studies we will examine cultural understandings of pain, suffering, healing, and death as well as the contemporary challenges of AIDS and emerging infectious diseases. May count toward the SAN or GSS major. Prerequisite: ANT 101, SOC 317, or SOC 368. Alternate years.  
(Social Science)

### **ANT 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **ANT 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ANT 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ANT 483 - The History of Ethnological Theory (1)**

Critical and historical study of theories of culture. Historical and contemporary schools of thought and major trends in ethnological theory, along with seminal theorists. Theoretical approaches in relation to biography, historical era, and sociocultural milieu of theorists, and to the function of anthropology in Western thought. Prerequisites: ANT 101 and one additional ANT course. Alternate years. No S/U option.  
(Social Science)

### **ANT 484 - Qualitative Research Methods and Fieldwork (1)**

Introduction to the theoretical and practical concerns of anthropological research methods, including writing research proposals, the tradition of participant observation, interviewing techniques, the qualitative approach to data analysis, the collecting and reporting of data, and the use of ethnography in social science. Students learn how to conduct original ethnographic research. Prerequisites: ANT 101 and junior standing and one additional anthropology or one upper level sociology course. Alternate years. No S/U option.  
(Social Science)

### **ANT 485 - Readings/Research in Anthropology (1/2-1)**

Student-designed individual research in selected areas. Prerequisites: ANT 101 and one other course in Anthropology. May be repeated for credit; however, no more than one term of 485 may be counted toward an individualized major in Anthropology or the Sociology and Anthropology major.

### **ANT 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ANT 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ANT 511 - Extended Research in Anthropology (1/4)**

Students will pursue an empirical problem through a new qualitative, quantitative, or mixed methods research project or substantially revise and expand an existing research project. Over the course of four blocks, students will engage in research design and implementation. Course will require 2-3 hours of work per week. Prerequisites: SOC 484 or ANT 484, and permission of instructor.  
(CR)

## **Archaeology**

### **ARC 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **ARC 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ARC 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ARC 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380

### **ARC 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ARC 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ARC 485 - Applied Archaeology or Archaeology Capstone (1)**

Independent, interdisciplinary project, required of all majors during their senior year. Prerequisite: permission of the Archaeology advisor.

### **ARC 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ARC 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

## **Art and Art History**

### **ART 100 - Topics: Introduction to Ceramic Pottery (1)**

What is the "language" of pottery and how does it differ from sculpture? What details must artists consider as they create objects for the purpose of utility? In this course, students will use clay to explore pottery forms and the role of functionality today. Students will learn both wheel-throwing and hand-building techniques in order to create utilitarian ceramic objects. Both historical and contemporary pottery will be explored through studio projects, art historical readings/presentations, and individual research. Students will be involved in every step of the ceramic process from mixing clay, forming and glazing functional works of art, and loading/firing kilns. (Fine Arts) (Part of Cornell Summer Institute: For High School Students Only)

### **ART 103 - Drawing I (1)**

Interaction with art elements, line, form, space, value, texture, pattern, and color, using limited media. May be repeated as ART 203 taken with a different instructor No S/U option [SA]  
(Fine Arts)

### **ART 104 - Studio Art Basics 3D (1)**

Introductory-level studio art course exploring art elements, concepts, and history. Three versions are offered on a rotating basis: 2-D, 3-D, and Photo Imaging. Students are not allowed to repeat this course even if the medium is different. No S/U option. [SA]  
(Fine Arts)

### **ART 151 - Art and Culture (W) (1)**

A thematic introduction to the subjects of art history, the language, and the methods used in the discipline, with a specific focus on the relationship of form and content. The course examines works of art as expressions of social, intellectual, religious, and aesthetic values. No S/U option. [AH]  
(Writing Requirement)

### **ART 203 - Drawing II (1)**

Interaction with art elements, line, form, space, value, texture, pattern, and color, using limited media. May be repeated as ART 203 taken with a different instructor No S/U option [SA]  
(Fine Arts)

### **ART 207 - Photography (1)**

An introduction to camera use, black and white film, and darkroom techniques with an emphasis on photography within an art context. The art department will provide students with a 35mm SLR film camera. Prerequisite: any 100-level studio art course. No S/U option. [SA]  
(Fine Arts)

### **ART 211 - Sculpture (1)**

The making of three-dimensional art forms using a variety of techniques, primarily with clay, plaster, and mixed media. Prerequisite: any 100-level studio art course. No S/U option. [SA]  
(Fine Arts)

### **ART 223 - Utilitarian Ceramics (1)**

What is the "language" of pottery and how does it differ from sculpture? What details must artists consider as they create objects for the purpose of utility? In this course, students will use clay to explore pottery forms and the role of functionality today. Students will learn both wheel-throwing and

hand-building techniques in order to create utilitarian ceramic objects. Both historical and contemporary pottery will be explored through studio projects, art historical readings/presentations, and individual research. Students will be involved in every step of the ceramic process from mixing clay, forming and glazing functional works of art, and loading/firing kilns. Prerequisite: any 100 level Studio Art course. No S/U option. [SA]  
(Fine Arts)

### **ART 224 - Sculptural Ceramics (1)**

How does ceramics straddle the line between craft and high art? How does an artist use a traditional craft medium, clay, in order to explore sophisticated concepts/ideas? In this course, students will focus on clay as a sculptural medium. Students will learn hand-building techniques, including pinch, coil, and slab, in order to create clay sculptures. The role and processes of ceramic sculpture will be explored through studio projects, art historical readings/presentations, and individual research. Students will be involved in every step of the ceramic process from mixing clay, forming and glazing sculptural works of art, and loading/firing kilns. Prerequisite: any 100 level Studio Art course. No S/U option. [SA]  
(Fine Arts)

### **ART 232 - Drawing Life I (1)**

A variety of drawing techniques and concepts explored with emphasis on the human figure. Prerequisite: any 100-level studio art course. May be repeated as ART 332 Alternate years No S/U option. [SA]  
(Fine Arts)

### **ART 238 - Papermaking (1)**

This studio course introduces sculpture, installation, and bookmaking using handmade and found paper. Students make Japanese, Nepalese, and European style papers and review the work of current artists manipulating paper to express ideas. No S/U option. [SA]  
(Fine Arts)

### **ART 242 - Painting (1)**

An introduction to the use of acrylic paint as a fine art medium. Observational, abstract, and non-objective approaches will be explored. Prerequisite: any 100-level studio art course. No S/U option. [SA]  
(Fine Arts)

### **ART 251 - Greek and Hellenistic Art (1)**

A review of the ancient art of the Mediterranean provides a foundation for an examination of the arts of ancient Greece from the Archaic to the Hellenistic periods. Elective for Classical Studies majors. Offered every third year. No S/U option. [AH]  
(Humanities)

### **ART 252 - Etruscan and Roman Art (1)**

Hellenistic era through the end of the Roman Empire, including the visual arts from the Etruscan peoples to the early Christians. Elective for Classical Studies majors. Offered every third year. No S/U option. [AH]  
(Humanities)

### **ART 256 - Italian Renaissance Art (1)**

The visual arts of Italy from the late medieval period through the end of the sixteenth century. Artists covered include Leonardo da Vinci, Michelangelo, Raphael, Donatello, and Titian. Elective for Medieval and Early Modern Studies majors. No S/U option. [AH]  
(Humanities)

### **ART 257 - Medusa's Gaze: Art/Age of Galileo (1)**

Visual arts of Western Europe, from the early seventeenth century to the mid-eighteenth century. Examples of seventeenth-century artists include Caravaggio, Bernini, Borromini, Gentileschi, Rubens, Rembrandt, and Vermeer. Elective for Medieval and Early Modern Studies majors. Alternate years. No S/U option. [AH]  
(Humanities)

### **ART 259 - Art, Identity, and Revolution: Late Eighteenth and Nineteenth Century Art (1)**

Investigation of four European movements (Neoclassicism, Romanticism, Realism, and Impressionism) from the mid-eighteenth century through the nineteenth century. Subject to availability of faculty. No S/U option. [AH]  
(Humanities)

### **ART 260 - Modern Art (1)**

Investigation of the development of Modernism and its demise during the second half of the twentieth century. Multiple styles are discussed from the late nineteenth century to 1960. No S/U option. [AH]  
(Humanities)

### **ART 263 - The Arts of West and Central Africa (1)**

Survey of the visual arts of Africa south of the Sahara based on the cycle of life in Africa. Culture and art objects will be discussed thematically, focusing on issues of birth and abundance, initiations, sexuality and partnership, status and royalty, secret societies, as well as death and the ancestors. Topics discussed will include traditional dress, decorated utensils and weapons, body arts, sculpture, painting, weaving, pottery, and architecture. The emphasis will be placed on the object as art form and as conceptual tool to translate socio-political ideas. Elective for Ethnic Studies major. Offered every third year. No S/U option. [AH]  
(Humanities)

### **ART 264 - African American Art: Intersectionality in the United States (1)**

This course provides an introduction to the visual arts produced by people of African descent in the United States from colonial times to the present. Artists, art movements, the relationship of art to politics, and the formation of racial and cultural identity will be examined. The emphasis will be placed on the object as art form and as conceptual tool to translate socio-political ideas. This course also counts towards the GSS major. Offered every third year. No S/U option. [AH]  
(Humanities)

### **ART 265 - Arts of the African Diaspora: Latin America and the Caribbean (1)**

In this course, the religious and aesthetic practices of West and Central Africa and their significance, preservation, and transformation in the Americas from the period of slavery to the present will be examined. The focus of the class will be on the arts of Haiti, Cuba, Mexico, and Brazil. No S/U option. [AH]  
(Humanities)

### **ART 266 - American Indian Art: Gender and the Marketplace (1)**

Introduces students to traditional and contemporary art made by indigenous individuals and groups in North America. Participants examine sculpture, painting, pottery, textiles, and human adornment. The course is organized according to cultural areas; however, common thematic issues and the effects of colonialism are stressed in discussion and assigned readings. This course also counts towards the GSS major. Offered every third year. No S/U option. [AH]  
(Humanities)

### **ART 268 - Pre-Columbian Mexico through its Art and Architecture (1)**

This class will explore, through the selection of a limited number of works of art and architecture, the rich artistic traditions of pre-Columbian Mexico. Although the course's geographical and historical reach is large (spanning over 3,000 years of history and a broad swath of North America), the works that we will examine are selective rather than comprehensive, and certain recurring themes will be emphasized in class discussions. Such themes include: Mesoamerican rulership and its representation; various cultures' approaches to life and death and how they are reflected in art and material culture; Mesoamerican cities and urban planning; materials and "material meanings"; uses of technology in understanding the pre-Columbian world; collecting the pre-Columbian past; and continuities of pre-Columbian culture after 1521. Class discussions, one field trip, and assigned readings are intended to help students in the critical evaluation of this art. Class sessions will be a mixture of illustrated lectures and discussion. Elective for Latin American Studies majors. [AH]  
(Humanities)

### **ART 275 - Topic: Art, Myths, & Movies (1)**

The characters of Hercules, Zeus, Athena, and Medusa all pervade modern art and literature although their stories began long ago in ancient Greece. This course not only functions as a review of Greek mythical narratives in ancient art, but also an examination of the modern resonances and cultural implications of depictions of these infamous heroes, heroines, and villains in early modern visual culture and in contemporary films. No S/U option. [AH] No S/U option. [AH]  
(Humanities)

### **ART 276 - Topics in Art History: Gods & Kings: Art and Archaeology of the Ancient Near East (1)**

A survey of the ancient art of the Near East from the rise of Sumer in Mesopotamia to the founding of the Persian Empire (with special focus on the civilizations of the Sumerians, Akkadians, Babylonians, Assyrians, and Persians). The course provides a detailed look at the art, architecture, and material culture of the Persian Empire from Cyrus II to Alexander the Great with careful consideration of religious and cultural perspectives as well as western European constructions of "the other" that still influence diplomatic relations today. No S/U option. No S/U option. [AH]  
(Humanities)

### **ART 279 - Topics: Discovering Pompeii (1)**

Beginning with the 1748 archaeological dig at Pompeii, this course will trace and reconstruct the art and architecture of the ancient Roman city frozen in time. Class will make museum trips to examine objects and address the art, legends, films, and myths that respond to the eruption of Mount

Vesuvius in 79 CE. No S/U option. [AH]  
(Humanities)

### **ART 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380. No S/U option.

### **ART 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study. No S/U option.

### **ART 291 - Studio Tutorial (1)**

Sustained projects in studio art. Prerequisites: a minimum of three college-level art courses, experience in the medium of the tutorial, and permission of the instructor at least two terms in advance. May be repeated for credit. No S/U option. [SA]

### **ART 292 - Art History Tutorial (1)**

An examination of one or more areas of art history not included in the regular offerings, or expanded research of a topic introduced in an art history course previously studied. Prerequisites: a minimum of two college-level art history courses, appropriate experience in the area of proposed study, and permission of the instructor at least two terms in advance. May be repeated for credit. No S/U option. [AH]

### **ART 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ART 306 - Intermedia (1)**

Production and analysis of time-based visual art. Introduction to the practice, history, and theory of avant-garde visual art in the twentieth century and beyond. Students will work individually and collaboratively with video, sound, performance, photography and the internet. Prerequisite: any 200-level studio art course. Alternate years No S/U option. [SA]  
(Fine Arts)

### **ART 307 - Advanced Photography (1)**

Advanced work in photography, with opportunity for maximum creative activity. Prerequisite: ART 207. Alternate years. No S/U option. [SA]  
(Fine Arts)

### **ART 310 - Collage and Assemblage (1)**

Studio course centered on the making, presenting, and analysis of two-and three-dimensional art made from "found" materials. Students are responsible for acquiring suitable materials. Prerequisite: any 200-level studio art course. Alternate years. No S/U option. [SA]  
(Fine Arts)

### **ART 312 - Sculpture-Casting (1)**

The making of three-dimensional art forms using mold-making techniques. Students will cast clay and other sculptural materials. Prerequisite: any 200-level studio art course. Offered every third year. No S/U option. [SA]  
(Fine Arts)

### **ART 332 - Drawing Life II (1)**

A variety of drawing techniques and concepts explored with emphasis on the human figure. Prerequisite: any 100-level studio art course. May be repeated as ART 332 Alternate years No S/U option. [SA]  
(Fine Arts)

### **ART 343 - Observational Painting (1)**

Upper-level painting course with an emphasis on looking at the physical world and recording these observations with paint. Subject matter will include still life, human figures, architecture, and landscapes. Prerequisite: ART 242. Offered every third year. No S/U option. [SA]  
(Fine Arts)

### **ART 344 - Abstract Painting (1)**

Upper-level painting course with an emphasis on looking at the physical world and then responding with expressive exaggerations. Prerequisite: ART 242. Offered every third year. No S/U option. [SA]  
(Fine Arts)

### **ART 345 - Non-Objective Painting (1)**

Upper-level painting course that explores the possibility of making paintings that have little or no reference to material reality. Prerequisite: ART 242. Offered every third year. No S/U option. [SA]  
(Fine Arts)

### **ART 354 - Advanced Topics: Advanced Ceramics (1)**

In this course, students will build on previous ceramics experience in order to further develop technical skills and conceptual processes related to clay. Topics of exploration could include pottery, sculptural hand-building, and/or casting processes. Exact project designs will be dependent on student interests. Students will be responsible for the entire ceramic process including mixing clay, creating the artwork, developing the surface treatment, and firing the work. Additionally, students will expand their knowledge of ceramic art history and ceramic technology. Though the emphasis will be on clay, students will be encouraged to integrate other media as needed. Students interested in gaining experience with advanced ceramic processes are encouraged to take this course. No S/U Option. [SA]  
(Fine Arts)

### **ART 361 - Saints and She-Devils (1)**

Examination of some of the most common depictions of women during the late Medieval and Renaissance periods, beginning with Eve and the Virgin Mary. Themes include popular images of the hag, the witch, and the prostitute as well as other depictions that demonstrate how man is led astray by feminine wiles. Readings span from the Bible and Thomas Aquinas to contemporary scholars in gender studies. This course also counts towards the GSS major. Prerequisite: GSS 171, HIS 102, HIS 304, HIS 319, REL 222 or any 200-level art history course. Alternate years. No S/U option. [AH]  
(Humanities)

### **ART 362 - Art Since 1960 (1)**

This course looks at the major movements, aesthetic theories, and critical debates related to art in the late 20th century in order to gain a better understanding of the diversity of contemporary practices. Students will be introduced to minimalism, conceptual art, institutional critique, feminist art, process and body art, postmodernism, and globalism. Prerequisite: Any 200-level art history course. Alternate years. No S/U option. [AH]  
(Humanities)

### **ART 363 - Feminist Art (1)**

Investigation of the feminist art movement of the 1970s to the present, as well as contemporary artwork by women artists. Readings and lectures focus on feminist approaches to gender, ethnicity, class, sexual orientation, and colonialism. This course also counts towards the GSS major. Prerequisite: 200-level art history course or GSS 171. Alternate years. No S/U option. [AH]  
(Humanities)

### **ART 364 - Rome Reborn: Caput Mundi in Ancient, Renaissance, and Modern Contexts Antiquity, Christianity, and Facism(in Rome) (1)**

This upper-level course, traces the history of the Eternal City from antiquity and the world of Julius Caesar and Augustus to the Rome of the early modern popes and the imperialist vision of Fascist dictator Benito Mussolini. Topics include the evolution of the ancient city into the capital of the Roman Empire, the Christianization of Rome and the Church Triumphant of the Counter Reformation as well as urban planning and reconstruction under Mussolini. This course is particularly appropriate for students interested in the use of art, architecture, and urban design as persuasive or visual rhetoric. In Rome. Additional fee required. Prerequisite: junior or senior standing or completion of a 200-level art history course. No S/U option.  
(Humanities)

### **ART 371 - Art Methods (1)**

Current K-12 methods in the teaching of art. Special emphasis on the materials and methods needed to be a creative art teacher. Lesson and unit design, computer applications, student assessment, classroom management, and 30 hours of observation and practicum work in the local schools. Required of all Education majors seeking K-6 and/or 7-12 certification recommendation(s) in art. Optional for general elementary education majors. This course cannot be used for credit toward an Art major or minor. Prerequisites: EDU 205, EDU 215, EDU 230, EDU 240, and admission to Teacher Education Program. No S/U option.  
(Teacher Preparation)

### **ART 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380. No S/U option.

### **ART 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study. No S/U option.



### **ART 391 - Advanced Studio Tutorial (1)**

Sustained projects in studio art. Prerequisites: a minimum of three college-level art courses, experience in the medium of the tutorial, and permission of the instructor at least two terms in advance. May be repeated for credit. No S/U option. [SA]

### **ART 392 - Advanced Art History Tutorial (1)**

An examination of one or more areas of art history not included in the regular offerings, or expanded research of a topic introduced in an art history course previously studied. Prerequisites: a minimum of two college-level art history courses, appropriate experience in the area of proposed study, and permission of the instructor at least two terms in advance. May be repeated for credit. No S/U option. [AH]

### **ART 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ART 483 - Studio Art Seminar (1)**

Readings and discussions about theories of art in conjunction with a studio practicum. Includes a week long stay in Chicago. Additional fees required. Prerequisite: ART 260, ART 264, ART 362, or ART 363. Junior standing and declared Studio Art major. No S/U option. [SA]

### **ART 484 - Art History Seminar (1)**

Readings and discussions about theories of art and the methodologies of art history with a practicum. Includes a week long stay in Chicago. Additional fees required. Prerequisites: declared Art History major. Alternate years. No S/U option. [AH]

### **ART 487 - Senior Thesis (1)**

A substantial capstone project to be completed during the senior year. Studio majors conceive, create, and mount an exhibition of a new body of work. Art history majors research an art historical problem, write a research paper, prepare an abstract, and provide a public presentation of their work with the goal of creating an original contribution to the discipline. An oral defense is required for either major. No S/U option.

### **ART 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study

### **ART 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ART 514 - Life Drawing (1/4)**

Open studio for working from the human figure. Does not fulfill fine arts credit. No S/U option.  
(CR)

### **ART 951 - London and Florence: Arts in Context (1)**

See ACM Programs

### **ART 952 - Florence: Arts, Humanities, and Culture (1)**

See ACM Programs

### **ART 967 - ACM: Chicago Program - Arts, Entrepreneurship & Urban Studies (1)**

See ACM Programs

## **Biochemistry and Molecular Biology**

### **BMB 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **BMB 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **BMB 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **BMB 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **BMB 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **BMB 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **BMB 485 - Problems (1)**

Investigation of a problem in biochemistry and/or molecular biology, including a review of the literature, collection and interpretation of data, and writing of a research report. For seniors and advanced juniors. This is a capstone experience for BMB majors. Arrangements must be made with the instructor before registering. May be repeated once for credit.

### **BMB 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **BMB 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

## **Biology**

### **ACM 963 - Oak Ridge Science Semester (1)**

see Cornell-Approved Domestic Off-Campus Programs.

### **ANW 901 - Audubon Center of the North Woods: Wolf and Lynx Ecology Experiences in Northern Minnesota (1)**

see Cornell-Approved Domestic Off-Campus Programs.

### **BIO 100 - Topics: DNA: It's in your Genes (1)**

This course is an introduction to modern molecular genetics. Using a project-based, "hands-on" approach, this laboratory course introduces students to basic molecular techniques used in a variety of applications ranging from forensic science to addressing current research problems with molecular technology. Students will solve a hypothetical crime with DNA forensic techniques, generate "fingerprints" of their DNA, and use DNA to address important research questions about the current state of Caribbean coral reefs. Discussions on bioethical issues currently debated in the newspapers will include the human genome project, cloning animals (including humans), individualized medicine, and the production of genetically modified foods. Only open to high school students participating in the Cornell College Summer Institute. (Lab Science)

### **BIO 103 - Investigations (1)**

Investigative approach to the solution of biological problems, emphasizing designing, executing, and interpreting research. Specific research areas are confined to the interests of each instructor. Recommended for non-science majors. This course is not open to students who have completed any 200-level biology course.

(Laboratory Science)

### **BIO 106 - Biology for the Schools (1)**

Basic biology, emphasizing the investigative approach to solve biological problems. Students will design, execute, and interpret research. Class projects will teach application of scientific method and basic laboratory techniques. Research topics will vary with each instructor. Recommended for Education majors. This course is not open to students who have completed any 200-level biology course.

(Laboratory Science)

### **BIO 108 - Topic: Diversity: Evolutionary Perspective (1)**

What is diversity and why should you care? This course is designed to encourage students to read, discuss, and think about diversity-from a biological perspective. We will examine the diversity of life and life histories. Students will learn about diverse patterns of reproduction (sexual and asexual), gender, and interactions among predators, prey, and parasites within biological communities -- including human populations. We will compare patterns from an evolutionary perspective and discuss implications. Recommended for non-science majors. This course is not open to students who have completed any 200-level biology course.  
(Science)

### **BIO 141 - Foundations: Cellular Biology (1)**

The course introduces students to the principles of cell structure, cell function and information transfer by emphasizing the investigative approach to biological questions. Students design, execute, and interpret research. Research topics will vary with each instructor. This course is a prerequisite for most upper-level Biology courses.  
(Laboratory Science)

### **BIO 142 - Foundations: Organismal Biology (1)**

The topics of genetics, evolution, speciation, classification, the diversity of life, ecology, biological communities, and animal behavior. This course is a prerequisite for all upper-level Biology courses.  
(Laboratory Science)

### **BIO 205 - Cell and Molecular Biology (1)**

Basic metabolism and organization of cells and intracellular organelles. Introduction to the structure and synthesis of biological macromolecules. Prerequisites: BIO 141, BIO 142, and CHE 225.  
(Laboratory Science)

### **BIO 207 - Systems Physiology (1)**

Fundamental study of the complementarity of human anatomical structure and physiological function of the integumentary, endocrine, nervous, muscular, cardiovascular, respiratory, and renal systems. Special emphasis on development of a mechanistic understanding of organ system function and integrated physiological function across systems to promote homeostatic regulation in the human body. Inclusion of experiential learning through laboratory activities. Prerequisite: sophomore standing. Cross Listed as KIN 207.  
(Laboratory Science)

### **BIO 209 - Plant Morphology (1)**

Structure and function of plants. Ecological, evolutionary, and physiological perspectives. Prerequisite: BIO 141 and BIO 142.  
(Laboratory Science)

### **BIO 211 - Evolution (1)**

Principles of evolution. Emphasis on modern evolutionary biology, evidence, and methods of hypothesis testing. Prerequisite: BIO 141 and BIO 142.  
(Laboratory Science)

### **BIO 230 - Conservation Biology (1)**

Ecological, evolutionary, and other biological principles and their application to the maintenance of global and local biodiversity. One or more field trips may extend beyond normal class hours. Prerequisite: BIO 142.  
(Science)

### **BIO 232 - Case Studies in Wildlife Conservation (1)**

Wildlife conservation is a multifaceted prospect, involving wildlife species and their biology, but mostly dependent on local people, governments, economics, and non-governmental organizations. This course will travel to locations where conservation activities are taking place to study the ideals and realities of conservation in the field. Experiential learning with conservation projects will be supported by readings and discussion of the focal species' biology and conservation. The focus will be on what conservation looks like on the ground, and on what approaches seem to be succeeding or failing. Prerequisite: BIO 142 OR ENV 101 OR ENV 201 May be repeated if taken with a different professor the second time.  
(Science)

### **BIO 254 - Ornithology (1)**

Basic biology of birds, emphasizing taxonomy, structure, ecology, behavior, distribution, and natural history. May include an extended field trip. Other field trips may extend beyond normal class hours. Prerequisite: BIO 142. Alternate years.  
(Laboratory Science)

### **BIO 269 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **BIO 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **BIO 281 - Topic: Conservation Biology (Mexico) FEE1**

Conservation biology of threatened coastal and marine animals in Cabo San Lucas, Mexico

This course is designed for students in biology and environmental studies majors interested in learning about the coastal ecology of Cabo San Lucas, Mexico. In this course, students will be introduced to ecological principles on the population, community and ecosystem levels. We also will explore wildlife management issues, assess human impacts on wildlife, and investigate ways that wildlife and people live together. Same course as ENV 261.

Prerequisites: Instructor permission, BIO 141 and 142, or ENV 201.

(Mexico)

A non-refundable deposit of 10% of the course cost, or a minimum of \$150 will be due on Monday, April 10th and must be paid using the online system.

A GPA of at least 2.0 and good disciplinary and financial standing are required at the time of registration and one month prior to the beginning of the course. Details of this policy are available in the catalogue.

### **BIO 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **BIO 305 - Advanced Molecular Biology (1)**

A continuation of BIO 205, with coverage of a topic of interest in molecular biology such as virology, aging, cytoskeleton, gene regulation, hormones, or oncology. Prerequisite: BIO 205.

(Laboratory Science)

### **BIO 308 - Invertebrate Zoology (1)**

Structure, classification, physiology, reproduction, life history, natural history, ecology, and evolution of invertebrates. Prerequisites: BIO 211 or BIO 141, BIO 142, and permission of instructor. Offered subject to the availability of staff.

(Laboratory Science)

### **BIO 312 - Vertebrate Zoology (1)**

Survey of the biology of vertebrates, emphasizing structure, classification, physiology, reproductive biology, ecology, natural history, and evolution.

Prerequisites: BIO 211 or BIO 141, BIO 142, and permission of instructor. Offered subject to the availability of staff.

(Laboratory Science)

### **BIO 313 - Developmental Biology (1)**

Principles of development with an emphasis on early developmental changes. The course focuses on cellular and molecular changes associated with gene expression, induction, and morphology. Prerequisite: BIO 205. Alternate years.

(Laboratory Science)

### **BIO 315 - Genetics (1)**

Principles of inheritance in plants and animals. Emphasis on the laws of heredity and molecular genetics. Laboratory research in molecular genetics. Recommended for juniors and seniors. Not to be taken in the same academic year as BIO 205. Prerequisite: BIO 205.

(Laboratory Science)

### **BIO 321 - Ecology (Wilderness Field Station) (1)**

Ecological theory. Why do individuals and species live the way they do, in the numbers they do, in the areas they do; and what environmental influences guided their evolution? Field trips may extend beyond normal class hours. Prerequisites: BIO 211 and permission of instructor.

(Laboratory Science)

### **BIO 326 - Microbiology (1)**

Survey of microbial world with emphasis on bacterial genetics and metabolism, and the role of microbial activities in the environment. Prerequisite: BIO 205.

(Laboratory Science)

### **BIO 327 - Immunology (1)**

A study of the human immune system including the basic principles involved in host defense mechanisms and methods of immunology. Prerequisite: BIO 205. Alternate years.  
(Laboratory Science)

### **BIO 328 - Neurobiology (1)**

The molecular, cellular, and physiological aspects of the nervous system. Emphasis is placed on basic properties of nerve cells, neural circuits, and organization and function of the mammalian nervous system. Prerequisite: BIO 205. Alternate years.  
(Laboratory Science)

### **BIO 329 - Human Anatomy and Physiology I (1)**

An integrative approach to understanding basic anatomical and physiological relationships of the nervous, endocrine, immune, cardiovascular, respiratory, and excretory systems of the human. Prerequisites: BIO 205. Alternate years. No S/U option.  
(Laboratory Science)

### **BIO 330 - Human Anatomy and Physiology II (1)**

An integrative approach to understanding basic anatomical and physiological relationships of the human skeletal, muscular, digestive, and reproductive systems and the control of these systems by the nervous and endocrine systems. Prerequisites: BIO 205. Alternate years. No S/U option.  
(Laboratory Science)

### **BIO 332 - Plant Systematics (1)**

Evolution and classification of vascular plants with an emphasis on field identification of flowering plants. Prerequisite: BIO 211.  
(Laboratory Science)

### **BIO 334 - Animal Behavior (1)**

This course includes one overnight field trip which requires an additional fee for lodging and facility rental. Other field trips may extend beyond normal class hours. Evolution, development, causation, and function of behavior with emphasis on the origins and adaptive function of behaviors of vertebrates and invertebrates. Prerequisite: BIO 211.  
(Laboratory Science)

### **BIO 335 - Chemical Ecology (1)**

This course explores how organisms use naturally occurring chemicals to influence ecological interactions. Case studies will illustrate both interspecific and intraspecific interactions among plants, insects, animals, and microbes, including behaviors such as mate selection, colony organization, and defense. Some attention will be given to the biochemical origins of these compounds. Prerequisite: BIO 205. Alternate years.

### **BIO 337 - Entomology (1)**

The evolutionary history, morphology, taxonomy, physiology, ecology, behavior, and economic importance of insects. Laboratories will focus on sampling, preservation, identification, and experimentation with insects. Field trips may extend beyond normal class hours. Prerequisites: BIO 211 or BIO 141, BIO 142, and permission of instructor. Offered every third year.  
(Laboratory Science)

### **BIO 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **BIO 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **BIO 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **BIO 399 - Preservation Ecology Summer Internship (1)**

Field experience during the summer under the auspices of the Iowa Nature Conservancy in preservation ecology techniques, including biological resource assessment, monitoring animal and plant populations, landowner contacts, mapping, preparing reports, and designated preserve management tasks. Prerequisites: (1) at least five term credits in Biology; (2) at least two of the following: BIO 209, BIO 254, BIO 308, BIO 312, BIO 321, BIO 332, BIO 334, or BIO 337; (3) junior standing; and (4) acceptance by the Nature Conservancy.

### **BIO 483 - Senior Seminar in Biology (1)**

Readings, presentations, and discussions from the recent research literature focused on an area of interest and/or expertise of the instructor. Prerequisites: BIO or BMB major and senior standing. Recommended prerequisite: BIO 315.

### **BIO 485 - Biological Problems (1)**

Investigation of a biological problem, including a review of the literature, collection and interpretation of data, and writing of a research report. Intended for seniors or advanced juniors, this is a capstone experience for Biology majors. Arrangements must be made with the instructor before registering. May be repeated once for credit.

### **BIO 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **BIO 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **BIO 511 - Extended Research in Biology (1/4)**

Reading in depth on a topic of current interest and the pursuit of an experimental or theoretical problem related to the topic. This adjunct course must be taken over four successive terms. Prerequisite: permission of instructor.

## **Chemistry**

### **CHE 103 - Investigations in Chemistry (1)**

Hands-on investigation of selected topics in chemistry with an emphasis on contemporary topics with practical, real-world applications. Topics vary each term. Intended for non-science majors. Can be repeated for credit when the topic is different. (Laboratory Science)

### **CHE 111 - Chemistry in the Natural World (1)**

Basic concepts of chemistry and their implications for a technological society. Emphasis on quantitative and qualitative aspects of chemistry as they apply to topics of importance today. Intended for non-science majors. No previous study of chemistry required. (Laboratory Science)

### **CHE 121 - Chemical Principles I (1)**

Fundamental concepts of chemistry, mole concept, energy, theories of the atom and the chemical bond, and molecular geometry. This course is intended primarily for those considering a major in science. (Laboratory Science)

### **CHE 122 - Chemical Principles II (1)**

Rates of chemical reactions, equilibrium, acids and bases, electrochemistry, and an introduction to thermodynamics. Reactions and properties of selected elements and their compounds. Prerequisite: CHE 121. (Laboratory Science)

### **CHE 161 - Accelerated General Chemistry (1)**

Fundamental concepts of chemistry: atomic theory, quantum theory, bonding, states of matter, thermodynamics, equilibrium, and kinetics. The course is designed for students who have a good understanding of atoms, molecules, and mole calculations. This course is the equivalent of CHE 121 and CHE 122. Credit may be given for either 161 or CHE 121 - CHE 122, but not both. Prerequisite: placement exam or permission of the instructor. (Laboratory Science)

### **CHE 202 - Analytical Chemistry (1)**

Concepts of analysis, volumetric techniques, and an introduction to instrumental techniques. Prerequisite: CHE 122 or CHE 161. (Laboratory Science)

### **CHE 225 - Organic Chemistry I (1)**

Lecture Chemistry of carbon compounds. Determination of molecular constitution and configuration and the chemistry of common functional groups. Prerequisite: CHE 122 or CHE 161.  
(Science)

### **CHE 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380. Does not fulfill major or minor requirement.

### **CHE 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **CHE 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **CHE 323 - Physical Chemistry I (1)**

Concepts of physical chemistry, including the kinetic-molecular theory of gases, kinetics, quantum mechanics, atomic and molecular structure and energetics, spectroscopy, symmetry, and classical and statistical thermodynamics. Prerequisites: MAT 122 and CHE 122 or CHE 161. Recommended prerequisite: PHY 263.  
(Laboratory Science)

### **CHE 324 - Physical Chemistry II (1)**

Thermodynamics and descriptions of systems of equilibria from both classical and statistical perspectives, molecular spectroscopy, quantum mechanics, atomic structure, and theories of reaction rates. Prerequisite: CHE 323.  
(Laboratory Science)

### **CHE 326 - Organic Chemistry II (1)**

Lecture Continuation of CHE 225. Methods of synthesis and the reactions of organic compounds. Prerequisite: CHE 225.  
(Science)

### **CHE 327 - Organic Chemistry Laboratory (1)**

Practical laboratory aspects of organic chemistry. Isolation and purification of substances; one-step transformations of substances; and, possibly, synthesis projects. Prerequisite: CHE 326.  
(Laboratory Science)

### **CHE 328 - Advanced Organic Chemistry (1)**

Selected advanced topics of reaction mechanisms or syntheses of organic compounds. Prerequisite: CHE 327. Not offered every year.  
(Laboratory Science)

### **CHE 333 - Advanced Analytical Chemistry (1)**

Theory of analytical chemistry with an emphasis on instrumental methods. Prerequisites: CHE 202, CHE 323, and CHE 327. Not offered every year.  
(Laboratory Science)

### **CHE 334 - Biochemistry (1)**

Cellular metabolism, with emphasis on energy extraction pathways and energy homeostasis. The approach is primarily mechanistic with a quantitative discussion of kinetics, free-energy changes, and the electrochemistry of electron transport chains. Prerequisites: BIO 205, CHE 202, and CHE 327.  
(Laboratory Science)

### **CHE 335 - Advanced Inorganic Chemistry (1)**

Properties of inorganic compounds with emphasis on theories of bonding and the chemistry of coordination compounds. Prerequisites: CHE 323 and CHE 327. Not offered every year.  
(Laboratory Science)

### **CHE 339 - Advanced Physical Chemistry (1)**

Quantum mechanics, symmetry and group theory, applications of thermodynamics, and selected topics. Study of current research literature in physical chemistry. Emphasis on both formal and informal methods of communication in science. Prerequisite: CHE 324. Not offered every year. (Laboratory Science)

### **CHE 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380. Does not fulfill major or minor requirement.

### **CHE 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **CHE 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **CHE 485 - Chemical Research (1)**

Research in selected areas of chemistry. Prerequisite: a 300-level course in Chemistry and permission of instructor.

### **CHE 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **CHE 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **CHE 511 - Extended Research in Chemistry (1/4)**

Reading coupled with research on a specialized topic. This adjunct course must be taken over four successive terms. Prerequisites: departmental GPA of 3.0 or higher, prior completion of one course in the Department at or above the 200 level, and permission of instructor. (CR)

### **CHE 512 - Reading and Conversation in Chemistry (1/4)**

Reading and discussion of current articles, historical texts, or general interest books about chemistry. Readings are selected in consultation with the participating students. Course meets weekly for one semester. (CR)

### **CHE 963 - Oak Ridge Science Semester (1)**

see Cornell-Approved Domestic Off-Campus Programs.

## **Civic Engagement**

### **CIV 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **CIV 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **CIV 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **CIV 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **CIV 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.



### **CIV 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **CIV 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **CIV 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

## **Classics**

### **CLA 111 - Big Screen Rome (W) (1)**

Hollywood has long had an interest in using ancient Rome as a lens for understanding contemporary America. Earlier Hollywood films, for example, have explored the rich and famous (Antony and Cleopatra), slave revolts (Spartacus), chariot races (Ben Hur), raucous parties (Fellini's Satyricon), the rise of Christianity (Quo Vadis), and the fall of empires (The Fall of the Roman Empire). This course will explore Roman history and culture through the words, stories, plays, and histories of eyewitnesses and other ancient authors and then, in viewing five to six films, will ask why the Romans continue to command such interest in the popular imagination and film. Offered in alternate years or every third year.

(Writing Requirement)

### **CLA 216 - Classical Mythology (in English) (1)**

Development of the myth, legend, and folklore of the ancient world, especially their place in ancient Greek and Roman culture, and their survival in the modern world.

(Humanities)

### **CLA 230 - Cultural Crossroads in Antiquity: Egypt, Greece, and Persia (In Chicago) (1)**

Focusing on the history of Egypt from the New Kingdom (ca. 1600 BCE) to the conquest of Alexander the Great (330 BCE) this course will examine the interactions between these empires, kingdoms, and city states of Egypt, Greece, and Persia. In addition to a discussion of the society, economy, and religion of Egypt, we will also examine the ways in which foreign rulers such as the Persian king Cambyses, Alexander the Great, and the Ptolemies used and manipulated ideologies and propaganda to solidify their claims to rule in Egypt, and the Egyptian responses to those foreign rulers. Other topics include contact between Greece and Persia, the Persian Wars, and the impact of the economic ties with Egypt on Greek society. Readings for the course will include Egyptian, Greek, and Persian literary and documentary sources in translation; we will also take advantage of the museum collections of the Oriental Institute at the University of Chicago, the Art Institute of Chicago, and the Field Museum to supplement these texts with material culture and art historical evidence. Offered every third year.

(Humanities)

### **CLA 254 - Greek History (1)**

This is an introductory course in Greek history that will cover major social, economic, and political developments from the Archaic period in Greece to the rise of Alexander the Great. Topics to be discussed include the formation of city states, Athenian Democracy, war with Persia, the Peloponnesian War and the coming of the Hellenistic Age. Alternate years.

(Humanities)

### **CLA 255 - Roman History (1)**

This is an introductory course in Roman history that will cover major social, economic, and political developments from the founding of Rome to the reign of Constantine with an emphasis on Rome's rise to power beginning with the Punic Wars to the reign of Constantine, who transferred the capital of the empire to Constantinople. Topics to be discussed include the civil wars, the creation of empire, Rome's place in the ancient Mediterranean world, Roman religion and Christianity. Alternate years.

(Humanities)

### **CLA 264 - Women in Antiquity (1)**

Exploration of women's lives in classical Greece and Rome; women's role in culture, society, and the economy; their experience of childbearing, marriage, and death; ancient social constructs of the female. Sources include literature, history, medical texts, inscriptions, art, and architecture. This course also counts towards the GSS major Alternate years.

(Humanities)

### **CLA 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **CLA 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **CLA 364 - Masterpieces of Greek and Roman Theatre (1)**

Origins and rise of drama in ancient Greece and Rome; discussion of ritual, historical, and modern performance contexts of various plays; their influence on modern theatre and cinema; ancient and modern interpretations of comedy and tragedy. Topics may vary from year to year.

Prerequisites: Writing-designated course (W) and sophomore standing. Course may be repeated with permission of the instructor. Offered every third year.

(Humanities)

### **CLA 372 - Epic Traditions: Classical and Modern Odysseys (1)**

A deep engagement with oral and written epic poems and narratives from early, medieval, and contemporary cultures throughout the world. Epics may include Homer's Iliad or Odyssey, Vergil's Aeneid, The Song of Roland, the west African Sun-Jata Epic, and Derek Walcott's Omeros. Attention will be given to defining epic poetry, exploring the interaction of orality and literacy, and understanding the performance traditions of these texts.

Prerequisites: Writing-designated course (W) and sophomore standing. Offered every third year.

(Humanities)

### **CLA 373 - Love and Sexuality in Greece and Rome (in English) (1)**

The theme of love from Sappho and Plato to Catullus and Ovid; the construction of sexuality in the Greek and Roman world; women's place within the ancient tradition; its influence on the the early modern period and on modern attempts at understanding love. This course also counts towards the GSS major. Prerequisites: Writing-designated course (W) and sophomore standing. Offered every third year.

(Humanities)

### **CLA 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **CLA 381 - Greek Archaeology (1)**

Introduction to excavating techniques in Greek lands; study of the material culture of ancient Greece in order to understand the society, religion, and customs of Bronze Age and Classical Greece. Registration entails additional costs when the course is taught in Greece. Prerequisite: a course from Classical Studies (CLA, GRE, or LAT) or Anthropology. Offered every four years.

(Humanities)

### **CLA 382 - Roman Archaeology (1)**

Introduction to excavating techniques in Roman lands; study of the material culture of the ancient Romans in order to understand their history and civilization from the monarchy to the republic to the empire. Registration entails additional costs when the course is taught in Italy. Prerequisite: a course from Classical Studies (CLA, GRE, or LAT) or Anthropology. Offered every four years.

(Humanities)

### **CLA 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **CLA 485 - Advanced Classical Studies (1)**

An independent project undertaken in the senior year. Prerequisite: permission of the Classical Studies Committee.

### **CLA 487 - Junior/Senior Seminar (1)**

The seminar offers students an opportunity to investigate a key theme in Classical Studies, to encourage reflection on the discipline as a whole, and to explore the modern reception of classical texts and contexts through the completion of a research project based around the thematic content of the seminar. The research project each student devises in consultation with the instructor and the Classical Studies advisor will demonstrate his or her ability to integrate knowledge of Greek and Latin language and literature with an understanding of Greek and Roman culture as a culmination of their studies. Prerequisites: junior standing, completion of a 300-level course in either Greek or Latin, and at least two other 300-level courses in Classical Studies. Offered every other year.

## **Greek**

### **GRE 101 - Beginning Ancient Greek I (1)**

Introduction to the language of ancient Greece, Alexander and his successors, and the eastern Mediterranean. Students will learn the essentials of grammar, vocabulary, and Greek mythology and culture through reading, speaking, and writing Greek; and read selections from classical writers and the New Testament. No previous foreign language experience required. Offered every third year.

(Language)

### **GRE 102 - Beginning Ancient Greek II (1)**

Introduction to the language of ancient Greece, Alexander and his successors, and the eastern Mediterranean. Students will learn the essentials of grammar, vocabulary, and Greek mythology and culture through reading, speaking, and writing Greek; and read selections from classical writers and the New Testament. No previous foreign language experience required. Offered every third year.

(Language)

### **GRE 103 - Beginning Ancient Greek III (1)**

Introduction to the language of ancient Greece, Alexander and his successors, and the eastern Mediterranean. Students will learn the essentials of grammar, vocabulary, and Greek mythology and culture through reading, speaking, and writing Greek; and read selections from classical writers and the New Testament. No previous foreign language experience required. Offered every third year.

(Language)

### **GRE 205 - Introduction to Greek Literature and Culture (1)**

Intensive engagement with a number of cultural topics through reading classical or Hellenistic Greek texts, in tandem with listening, speaking, or writing in the target language. Topics may include Greek myth, religious sanctuaries, art and architecture, Roman interaction with Greeks, and Greek self-definition. Prerequisite: GRE 103. Offered every third year.

(Language)

### **GRE 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **GRE 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **GRE 291 - Intermediate Tutorial (1)**

Topic selected by the student in consultation with the instructor. Prerequisite: GRE 102. Offered on request, subject to availability of faculty.

### **GRE 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **GRE 327 - The Greek Hero (1)**

Consideration of the Greek concept of heroism with attention to how performance, genre, gender, and social and cultural values shape the Greek view of the hero. Readings from Homer or the Attic dramatists in the original Greek. Prerequisite: GRE 205. Offered every third year.

(Humanities)

### **GRE 334 - Ancient Greek Politics, Society, and Culture (1)**

Readings and discussion of original Greek texts that cast light on the history, politics, society, and culture of Greece and the ancient Mediterranean. Authors may include Arrian, Herodotus, Lysias, Pausanias, Plato, Thucydides, Xenophon, or the Greek New Testament. Prerequisite: GRE 205.

Offered every third year.

(Humanities)

### **GRE 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **GRE 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **GRE 391 - Advanced Tutorial (1)**

Topic selected by the student in consultation with the instructor. Prerequisite: GRE 291. Offered on request, subject to availability of faculty.

### **GRE 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **GRE 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **GRE 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **GRE 511 - Greek Reading Group (1/4)**

Maintenance of Greek language skills through reading a variety of Greek authors. Texts selected in consultation with the participating students.

Course meets once a week for a semester. Prerequisite: GRE 102 or permission of instructor.

(CR)

## **Latin**

### **LAT 101 - Beginning Latin I (1)**

Introduction to the language of ancient Rome, its empire, the middle ages, and the early modern world. Students will learn the essentials of grammar, vocabulary, and Roman history and culture through reading, speaking, and writing Latin; increase English vocabulary through Latin derivatives; and read selections from Latin writers from different eras. Offered two out of every three years.

(Language)

### **LAT 102 - Beginning Latin II (1)**

Introduction to the language of ancient Rome, its empire, the middle ages, and the early modern world. Students will learn the essentials of grammar, vocabulary, and Roman history and culture through reading, speaking, and writing Latin; increase English vocabulary through Latin derivatives; and read selections from Latin writers from different eras. Offered two out of every three years.

(Language)

### **LAT 103 - Beginning Latin III (1)**

Introduction to the language of ancient Rome, its empire, the middle ages, and the early modern world. Students will learn the essentials of grammar, vocabulary, and Roman history and culture through reading, speaking, and writing Latin; increase English vocabulary through Latin derivatives; and read selections from Latin writers from different eras. Offered two out of every three years.

(Language)

### **LAT 205 - Introduction to Latin Literature and Culture (1)**

Intensive engagement with a cultural topic through reading Latin texts of the Republic or Empire, in tandem with listening, speaking, or writing in the target language. Topics may include Roman comedy, Roman performance culture, Roman banquets, or Roman elections. Prerequisite: LAT 103.

Offered two out of every three years.

(Language)

### **LAT 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **LAT 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **LAT 291 - Intermediate Tutorial (1)**

Topic selected by the student in consultation with the instructor. Prerequisite: LAT 102. Offered on request, subject to availability of faculty.

### **LAT 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **LAT 312 - Age of Cicero (1)**

Fall of the Roman Republic, as seen through the eyes of Cicero and his contemporaries, Catullus, Lucretius, and Sallust. Prerequisite: LAT 205. Offered every third year.  
(Humanities)

### **LAT 313 - Age of Augustus (1)**

Golden Age of Latin literature. Readings from Vergil, Horace, Ovid, or the Roman love elegists. Prerequisite: LAT 205. Offered every third year.  
(Humanities)

### **LAT 368 - Roman Historians (1)**

Readings from Tacitus, Livy, or Caesar in order to assess the Romans' contribution to and influence upon the writing of history. Prerequisite: LAT 205. Offered every third year.  
(Humanities)

### **LAT 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **LAT 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **LAT 391 - Advanced Tutorial (1)**

Topic selected by the student in consultation with the instructor. Prerequisite: LAT 291. Offered on request, subject to availability of faculty.

### **LAT 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **LAT 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **LAT 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **LAT 511 - Latin Reading Group (1/4)**

Maintenance of Latin language skills through reading a variety of Roman authors. Texts selected in consultation with the participating students. Course meets once a week for a semester. Prerequisite: LAT 102 or permission of instructor.  
(CR)

## **French**

### **FRE 101 - Beginning French I (1)**

French 101- FRE 103 develop students' linguistic and cultural proficiency. Coursework covers speaking, listening, reading and writing in French. Successful completion of the beginning-level language course sequence prepares students to function in a variety of authentic communicative situations within a French speaking context and to become life-long language learners. All French language classes, from the beginning to the advanced level, also develop students' awareness and understanding of cultural phenomena in the Francophone world. French 101 is designed for true beginners in the language. Students are introduced to the standard conventions of French pronunciation, grammar, and vocabulary, and focus is placed on building students' foundation in linguistic proficiency through exercises in speaking, writing, listening and reading. Students learn about where and how French is used in the world, and about the French and French-Canadian educational systems. They learn how to discuss pastimes, families, holidays, and events that will take place in the near future.  
(Language)

### **FRE 102 - Beginning French II (1)**

FRE 101-FRE 103 develop students' linguistic and cultural proficiency. Coursework covers speaking, listening, reading and writing in French. Successful completion of the beginning-level language course sequence prepares students to function in a variety of authentic communicative situations within a French speaking context and to become life-long language learners. All French language classes, from the beginning to the advanced level, also develop students' awareness and understanding of cultural phenomena in the Francophone world. In French 102, students build on their cultural and linguistic proficiency in French through exercises in speaking, writing, listening and reading. Students learn how to talk about

the weather, recount and describe past actions and events, ask questions, make suggestions, express opinions and emotions, order food and drink in a restaurant, and talk about where they live. They also learn about different provinces and regional cultures within France, rites and rituals in the Francophone world, and culinary traditions. Prerequisite: FRE 101.

(Language)

### **FRE 103 - Beginning French III (1)**

FRE 101-103 develop students' linguistic and cultural proficiency. Coursework covers speaking, listening, reading and writing in French. Successful completion of the beginning-level language course sequence prepares students to function in a variety of authentic communicative situations within a French speaking context and to become life-long language learners. All French language classes, from the beginning to the advanced level, also develop students' awareness and understanding of cultural phenomena in the Francophone world. In French 103, students build on their cultural and linguistic proficiency in French through exercises in speaking, writing, listening and reading. Students learn how to articulate if-then statements, how to use future verb tenses, and how to use the conditional and subjunctive moods in French. Students also learn how to talk about travel plans in the future, lodging, physical health, the environment, civic responsibilities, technology, art forms, and French media. Prerequisite: FRE 102.

(Language)

### **FRE 205 - Intermediate French (1)**

In French 205, students refine their cultural and linguistic proficiency in French through exercises in speaking, writing, listening and reading. Development of intercultural competencies and knowledge of cultural differences between the US and the Francophone world, including such topics as immigration and education, is a focus of this course. Prerequisite: FRE 103.

(Language)

### **FRE 206 - Francophone Cultural Immersion (Intermediate) (1)**

French 206 is for students who wish to achieve greater fluency and an understanding of life in a Francophone destination. Past destinations include: Martinique, Aix-en-Provence, Québec and Morocco. The course immerses students in French/Francophone culture through experiential activities and excursions, site visits, group discussion, selected readings and daily interactions with native speakers from the local community, and may include a homestay. Registration entails additional costs. Alternate years. FRE 103.

(Language)

### **FRE 254 - Bending Boundaries: Francophone Women in Translation (1)**

Works by representative women writers will be examined in light of contemporary views of feminism, femininity, and cultural differences. All work in English. No knowledge of French required. May be counted as a 300-level course for French majors with permission of instructor. This course also counts towards the GSS major. Offered subject to the availability of faculty.

(Humanities)

### **FRE 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **FRE 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **FRE 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **FRE 301 - Composition and Conversation (1)**

Focus on conversational French and refinement of grammar in writing and speaking. Discussion and analysis of current events in the media and exploration of a variety of different genres, including French ads, fait-divers, persuasive essays, comic strips and short narratives. Advanced grammar review, vocabulary acquisition and creation of an on-line blog. Prerequisite: FRE 205 or FRE 206.

### **FRE 302 - Francophone Culture Abroad (Advanced) (1)**

For students who wish to achieve greater fluency and an understanding of life in a Francophone destination. Past destinations include: Martinique, Aix-en-Provence, Québec and Morocco. Immersion in French/Francophone culture through experiential activities and excursions, site visits, group discussion, selected readings and daily interactions with native speakers from the local community. May include a homestay. Registration entails additional costs. Prerequisite: FRE 205. Alternate years.

### **FRE 303 - Cultures of France and Francophone World (1)**

Contemporary French and Francophone cultures viewed through the lenses of media, cinema, literature, politics, and popular culture. Students will study the historical, political, geographic, and cultural meanings of the post-colonial term "Francophonie," and will interrogate what it means to be

"French" in a globalized world. Coursework includes both formal and informal writing assignments, a mid-term examination, and a final research project with oral presentation. Prerequisite: FRE 205 or FRE 206. FRE 301 is strongly recommended. Alternate years.  
(Humanities)

### **FRE 311 - Introduction to Literature in French (1)**

Exploration of a variety of literary genres, including poetry, theatre, the "nouvelle," and the novel. Students develop their reading, writing and speaking proficiency in French through class discussion, close readings, analytical and creative writing assignments. Prerequisite: FRE 301 or permission of instructor. Alternate years.  
(Humanities)

### **FRE 312 - Introduction to French and Francophone Film (1)**

This course introduces students to the study of French-language film. They learn about important periods, movements, and directors in French and Francophone filmmaking from the beginning in 1895 with the Lumière brothers through the present, possibly including la Nouvelle Vague (films such as *A Bout de souffle* and *Les Quatre Cent Coups*), banlieue cinema (films that focus on or are made by people living in the housing projects surrounding major French cities), and films by Ousmane Sembène (a Senegalese author and director considered by some to be the 'father of African cinema'). Students develop the critical vocabulary and skills necessary to analyze films as constructed texts and become familiar with the socio-historical contexts in which the films were produced. The course is conducted in French. Prerequisite: FRE 301 or permission of the instructor. Alternate years.  
(Humanities)

### **FRE 321 - Passionate Extremes in Early-Modern France (1)**

This course focuses on important cultural texts from the medieval era through the 16th century. French feudal society—a world of chevaliers, courtly love and chivalric honor—gives way to the rise of monarchical power, brutal religious wars and discoveries of ancient art and knowledge at the dawn of the modern era. Visual, material and aural/oral culture as well as period films will complement our readings of texts. Some readings are in English to provide background historical and cultural information, but all primary texts are in French. Prerequisite: FRE 301 or permission of the instructor. FRE 311 or FRE 312 strongly recommended. Offered every third year.  
(Humanities)

### **FRE 331 - Enlightenment: Eighteenth Century French Literature (1)**

France's fiercely secular understanding of citizenship can be traced back to the Enlightenment period which culminated in the violent revolution of 1789. French philosophes such as Voltaire, Rousseau, Diderot, and Montesquieu, united in their belief in the supreme power of human reason, waged fierce opposition to the social and political constraints of religious authority that undergirded the Old Regime and promoted an international republic of letters founded on freedom of expression and human rights. This course focuses on works by the philosophes with attention to the limits of French Enlightenment thinking with respect to differences of race and gender. Alternative voices of important historical actors such as Olympe de Gouges, a feminist abolitionist, and Toussaint l'Ouverture, leader of the Haitian Revolution of 1791-1804, will also be considered. Prerequisite: FRE 301. FRE 311 or FRE 312 is strongly recommended. Offered every third year.  
(Humanities)

### **FRE 353 - Race and Immigration in French Film (1)**

Issues surrounding race and immigration are the focus of much attention in the United States, and such issues are similarly important topics of discussion in France. However, the French context of race and immigration varies from its American counterpart, and this means that related questions are differently defined, constructed, and understood. France's long colonial history plays no small part in generating and continuing conversations on the matters of race and immigration, and its policy of assimilation vis à vis immigrants and (formerly) colonized peoples has frequently resulted in debate, protest, and legislation. We will examine constructions of race and portrayals of immigration in French-language films primarily from France. Special attention will be paid to intersections of class and gender with race and immigration. Readings will be provided to buttress understanding of the historical and social contexts as well as to contribute to comprehension of some critical race theory. This course also counts towards the GSS major. Prerequisite: FRE 301 or permission of the instructor. FRE 311 or FRE 312 strongly recommended. Offered every third year.  
(Humanities)

### **FRE 354 - Sporting Identities (1)**

What can an examination of sports tell us about national cultures and identities in the French-speaking world? How do sports affect—and how are they affected by—gender, class, and race? How do sports and sports narratives change over time and how does this influence the meanings and messages they propagate or are made to carry? Do the same sports mean the same things for different cultures, or even for different people? Through various literary and cultural texts—photographs, films, short stories, non-fiction, etc.—we will examine the role of sports and sports narratives in creating, resisting, shifting, or maintaining elements of cultures and identities. Students do not need to have any familiarity with sports to take this class, but they do need to have met the prerequisites for taking upper-level courses in French, as the course will be conducted in French. Prerequisites: This course also counts towards the GSS major. Prerequisite: FRE 301 or permission of the instructor. FRE 311 or FRE 312 strongly recommended.  
(Humanities)

### **FRE 365 - Advanced Topics: Francophone Identities and Cultures outside of France (1)**

This course will introduce students to a variety of Francophone cultures and identities outside of hexagonal France, including those of Vietnam, Algeria and Senegal. We will interrogate the phenomenon of "Francophonie" in specific historical and geographical contexts as both a cultural, political and social unifying force and as a movement that still carries with it its colonial past. We will also explore the creative work of bilingual, bi-national and/or bicultural writers who have chosen to write or otherwise express themselves in French, including Fatou Diome of Senegal, Marjane Satrapi, the Iranian-born French graphic novelist and author of *Persepolis*, Nina Bouraoui, a French author who spent most of her childhood in Algeria and Minh Tran Huy, a French author of Vietnamese heritage. This course will enhance students' intercultural competence and knowledge of the rich diversity of the French-speaking world. This course may be taken in place of FRE 303 in order to satisfy the requirements to major or minor in French. FRE 205. FRE 301 is recommended.  
(Humanities)

### **FRE 366 - Advanced Topics: Where Women Wielded Power: Salong Culture in France (in English) (1)**

From the 16th century through the 20th, French women hosted intellectual and literary salons, providing a carefully cultivated venue for conversation among great writers, thinkers, artists, and musicians, such as Voltaire, Chopin, Proust, and Picasso. In addition to wielding power by building networks and shaping cultural trends, many of the hostesses were themselves accomplished theorists and authors and took advantage of the salon as a space for their own expression. Women involved with salon culture wrote in multiple genres and about many topics; similarly, there are plays, novels, artwork, and nonfiction about women and salons—some portraying them in a flattering light and some belittling their efforts. Although some contemporaries viewed salons positively as a venue of higher education for women and a place to foster women's gifts, others saw salons as gatherings of women who led empty and idle lives while ignoring their familial duties, and whose domination in intellectual circles merely muddled men's search for knowledge and truth. In this course, we will examine historical salons and read literary works not only about salons but also by salonnières themselves. We will concentrate on material exploring women's social roles both in the salon and in the larger society, and thus on questions of "female virtue" and "feminine ideals." This course is taught in English and counts for the GSS major. Writing Requirement (W)  
(Humanities)

### **FRE 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **FRE 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **FRE 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **FRE 411 - Capstone: Seminar (1)**

The topic varies, but has traditionally focused on the in-depth study of a literary movement, genre, author, or theme. Theoretical discourses in French and Francophone studies or cultural issues are other possible foci for this course. Required of all French majors. Prerequisite: permission of instructor. Alternate years. NO S/U option.

### **FRE 412 - Independent Capstone Research Project (1)**

This option is an independent study course, supervised by a French professor. Students must meet with the professor during the fall semester of their junior year to discuss the expectations and process of the senior capstone research project. Work should be completed as a one-term independent study course during the student's senior year, and will culminate in a research paper in French. If more than one student chooses to complete an independent capstone research project in the same year, they may work concurrently during the same block in a workshop model, discussing their work with both the professor and one another. NO S/U option.

### **FRE 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **FRE 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

## **German Studies**

### **GER 101 - Beginning German I (1)**

Introduction to speaking, reading, writing and listening comprehension in German. Facility in speaking and understanding spoken German is stressed. Readings emphasize culture, literature and contemporary life in the German-speaking countries.  
(Language)



### **GER 102 - Beginning German II (1)**

Introduction to speaking, reading, writing and listening comprehension in German. Facility in speaking and understanding spoken German is stressed. Readings emphasize culture, literature and contemporary life in the German-speaking countries.  
(Language)

### **GER 103 - Beginning German III (1)**

Introduction to speaking, reading, writing and listening comprehension in German. Facility in speaking and understanding spoken German is stressed. Readings emphasize culture, literature and contemporary life in the German-speaking countries.  
(Language)

### **GER 115 - Topic: Sports and Athletic Culture in Germany (In English) (1)**

This course will examine the history of sports and athletic culture in Germany from roughly the nineteenth century until Germany's 2014 World Cup victory. With a focus on the foundation and growth of local (and eventually national) soccer clubs, the gymnastics and nudist movements, the birth of automobile racing and car culture, wildly-popular "6-day" endurance racing and walking events at the turn of the century, the Olympics in Germany (notably 1936 and 1972, not to mention the controversy surrounding East Germany's Olympic participation), and Germany's 2006 hosting of the World Cup, our interest is in understanding not just the nature and history of athletics in Germany, but also important themes in German and transnational cultural, social, and political history, including questions of nationalism and patriotism, race and ethnicity, counter-culturalism, fascism, communism, and gender/sexuality. TAUGHT IN ENGLISH. Can be repeated when Topic is different. Can count towards GSS major and minor and can count towards History major and minor.  
(Humanities)

### **GER 205 - Intermediate German: Topics-German Cultures (1)**

Continuing development of linguistic and cultural competence in German by focusing on one theme. Topic for 2013: Immigration. Topic for 2014: Fall of the Berlin Wall. Prerequisite: GER 103.  
(Language)

### **GER 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **GER 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **GER 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **GER 301 - Personal Narratives (1)**

Development of composition and conversation skills through reading, discussion, and writing about biographical and autobiographical works of selected individuals, from well-known figures to family members. Prerequisite: GER 205. Offered every third year.

### **GER 302 - In the Media (1)**

Development of composition, conversation, and listening skills through reading, discussion, and writing about articles and reports from contemporary news sources. Prerequisite: GER 205. Offered every third year.

### **GER 311 - Introduction to Literature (1)**

Introduction to the genres and major literary periods in German literature. Development of reading strategies and skills, with attention given to the advanced grammar needed to read German intelligently. Short writing assignments to develop skill in analyzing texts. Prerequisite: GER 205. Offered every third year.  
(Humanities)

### **GER 315 - Topic: Fall of the Berlin Wall (in English) (1)**

For 28 years, the Berlin Wall divided Berlin into East and West and represented not just a massive ideological divide between Communist East Germany and capitalist West Germany but also the separation of families, lovers, and ethnic and religious communities. And then, in one night, Berliners tore the wall apart, bit by bit, and celebrated a reunion with their fellow Berliners that was filled with both joy and confusion about what would happen next. This course will investigate the peaceful revolution of 1989-1991, where two Germanys became one, through the lens of this world-changing event on November 9, 1989. We will examine what the wall meant, how it worked, and how Berliners came to live with it (which included trying to escape its hold on their lives); we will look at the events and individuals leading up to the wall's collapse; and we will study Germany's rocky path to reunification after the wall came crumbling down, focusing on questions of political and economic structures, gender and

sexuality, and international diplomacy. TAUGHT IN ENGLISH. Can count towards History major and minor.  
(Humanities)

### **GER 341 - Romanticism (1)**

Survey of the German Romantic period, concentrating on Novalis and Kleist. Supplementary readings in Romantic Criticism and the philosophy of German idealism. Prerequisite: GER 302 or GER 311. Offered every third year.  
(Humanities)

### **GER 351 - Modern Men (1)**

The three authors most associated with modernist literature are Rainer Maria Rilke, Thomas Mann and Franz Kafka. This course will explore their writings, position within the literary industry, and the place of literature in society in the early 20th century. Taught in English. Prerequisite: Sophomore Standing. Offered every third year.  
(Humanities)

### **GER 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **GER 381 - Germany Awakes (1871-1914) (1)**

A survey of the decade immediately following the unification of Germany under Bismarck in 1871. Readings and discussion of the history, society, and literature of those years when Germany became a world power, an industrialized country, and a militaristic society. Prerequisite: GER 302 or GER 311. Offered every third year.  
(Humanities)

### **GER 383 - Anxiety and Elation in the Weimar Republic 1919-1933 (1)**

A survey of the Weimar Republic, 1919-1933, when Germany struggled to overcome its defeat in World War I. Readings and discussion of its economic and political history, and the developments in society, literature and cinema. Analysis of Nazism's rise to power. Prerequisite: GER 302 or GER 311. Offered every third year.  
(Humanities)

### **GER 385 - From the Rubble to the Wall: Postwar Germany, 1945-1963 (1)**

A survey of Germany 1945-1963, when the two German successor states, and Austria, struggled with the legacy of the Third Reich. Readings and discussion of the development of East and West Germany and their political and economic incorporation into the Soviet and Western Blocs. The peculiar neutrality of Austria. The Wirtschaftswunder in West Germany and Austria, and its pale reflection in East Germany. Prerequisite: GER 302 or GER 311. Offered every third year.  
(Humanities)

### **GER 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **GER 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **GER 485 - Senior Tutorial (Capstone) (1)**

The capstone in German Studies is designed to develop strong mastery of advanced German speaking, writing and reading/listening comprehension. Students develop their own research project which culminates in a final paper or series of papers. Students are strongly recommended to take GER 390 or a similar course in one of the terms preceding the seminar, in order to properly prepare. Required of all German majors. Prerequisites: four 300-level German courses.

### **GER 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **GER 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **GER 511 - German Reading and Conversation Group (1/4)**

Maintenance of German language skills through reading and conversation. Six meetings per term, with all student work done during the meetings.  
Prerequisite: GER 102.  
(CR)

### **GER 990 - Term, Semester, or Year in Germany (1)**

see Foreign Language Abroad Program and also Goethe Institute's web site at <http://www.goethe.de>

## **Japanese**

### **JPN 101 - Beginning Japanese I (1)**

Essentials of grammar emphasizing skills in reading, writing, speaking, and understanding Japanese. Classroom activities promote conversational skills. The 101-JPN 102 and JPN 103-JPN 205 sequences are offered in alternate years.  
(Language)

### **JPN 102 - Beginning Japanese II (1)**

Essentials of grammar emphasizing skills in reading, writing, speaking, and understanding Japanese. Classroom activities promote conversational skills. The JPN 101-102 and JPN 103-JPN 205 sequences are offered in alternate years.  
(Language)

### **JPN 103 - Beginning Japanese III (1)**

Essentials of grammar emphasizing skills in reading, writing, speaking, and understanding Japanese. Classroom activities promote conversational skills. The JPN 101-JPN 102 and 103-JPN 205 sequences are offered in alternate years.  
(Language)

### **JPN 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **JPN 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **JPN 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **JPN 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **JPN 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **JPN 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **JPN 923 - Japan Study (1)**

An ACM program which offers a year at Waseda University in Tokyo. There are also opportunities for students from ACM colleges to study Japanese during the summer at Beloit College.

## **Russian**

### **RUS 101 - Beginning Russian I (1)**

Development of basic languages skills (speaking, reading, listening, writing) and introduction to culture. Emphasis on practical vocabulary for everyday situations.  
(Language)

### **RUS 102 - Beginning Russian II (1)**

Development of basic languages skills (speaking, reading, listening, writing) and introduction to culture. Emphasis on practical vocabulary for everyday situations.

(Language)

### **RUS 103 - Beginning Russian III (1)**

Development of basic languages skills (speaking, reading, listening, writing) and introduction to culture. Emphasis on practical vocabulary for everyday situations.

(Language)

### **RUS 181 - Introduction to Russian Culture through Literature and Film (W) (1)**

Examination of works of literature and film that reveal historical and contemporary trends in Russian culture, with an emphasis on Russia's relationship to its past and to other cultures. Conducted in English. Alternate years. Same course as RSS 181. Alternate years.

(Writing Requirement)

### **RUS 205 - Intermediate Russian (1)**

Continued development of linguistic competence and cultural literacy. Students will use both textbooks and materials from the Internet to improve their skills. Prerequisite: RUS 103.

(Language)

### **RUS 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **RUS 282 - Topic: Russian Spies & Statesmen in Their Own Words (1)**

How do Russian spies and politicians tell their stories? How do they express a sense of personal and national identity? What do they think about other countries and Russia's standing in the world? In this course we'll analyze memoirs and autobiographical works of a number of Russians, including Vladimir Putin, who have been involved in politics and the intelligence services. We'll explore how they represent themselves and their country, how much of their activities they choose to reveal, and what questions they leave unanswered. All readings and discussions are in English. Humanities

### **RUS 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **RUS 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **RUS 301 - Composition and Conversation (1)**

Practice in reading, writing, listening, and speaking, and introduction to complex grammatical structures. Compositions and discussions on a variety of topics using various materials. Prerequisite: RUS 205. Alternate years.

### **RUS 302 - Contemporary Currents (1)**

Practice in reading, writing, listening, and speaking in Russian with an emphasis on the use of complex grammatical structures. Course materials will focus on contemporary culture. Prerequisite: RUS 205. Offered every third year.

### **RUS 303 - Language in Context (1)**

Practice in reading, writing, listening, and speaking using a variety of authentic materials from contemporary sources, such as on-line magazines and newspapers, films, interviews, and letters. Emphasis on building vocabulary and comprehension of complex grammatical structures. Prerequisite:

RUS 205. Alternate years.

(Language)

### **RUS 311 - Nineteenth Century Russian Literature (in Russian) (1)**

Introduction to Russian literature of the nineteenth century, with readings of works by representative writers. Conducted in Russian. Prerequisite: RUS 301 or RUS 303. Offered subject to availability of faculty

(Humanities)

### **RUS 312 - Twentieth Century Russian Literature (in Russian) (1)**

Introduction to Russian literature of the twentieth century, with readings of works by representative writers. Conducted in Russian. Prerequisite: RUS 301 or RUS 303. Offered subject to availability of faculty.  
(Humanities)

### **RUS 341 - Classics - 19th Century Russian Literature in English (1)**

Examination of major writers and trends from the period when Russia produced some of the greatest works of literature in the world. Texts include Pushkin's Eugene Onegin, Dostoevsky's Notes from Underground, and Tolstoy's Anna Karenina. Conducted in English. Prerequisite: Writing-designated course (W). Offered every third year.  
(Humanities)

### **RUS 351 - Change and Revolution in Russian Literature (in English) (1)**

Examination of major works of pre- and post-revolutionary Russian fiction, poetry, and drama from the period 1880-1932, with a focus on the theme of society in transition. Writers include Chekhov, Gorky, and Mayakovsky. Conducted in English. Prerequisite: Writing-designated course (W). Offered every third year.  
(Humanities)

### **RUS 355 - Soviet and Post-Soviet Russian Literature and Film (in English) (1)**

Examination of major trends in literature and film during the Soviet and post-Soviet periods. Literary texts include Solzhenitsyn's One Day in the Life of Ivan Denisovich, Bulgakov's The Master and Margarita, and Pasternak's Doctor Zhivago. Films include Ballad of a Soldier, The Cranes are Flying, and The Thief. Conducted in English. Prerequisite: Writing-designated course (W). Offered every third year.  
(Humanities)

### **RUS 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **RUS 384 - Russia Today (1)**

The current scene in Russia. Registration, when the course is taught in Russia, entails additional costs. Same course as RSS 384. Offered subject to availability of faculty.  
(CR)

### **RUS 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **RUS 391 - Tutorial in Russian (1)**

Supervised reading in Russian literature and/or civilization, with discussions and compositions based on the reading. Conducted in Russian. Prerequisites: RUS 205 and permission of instructor.

### **RUS 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **RUS 485 - Senior Capstone (1)**

Reading, research, and writing in Russian and in English on a topic developed in consultation with the program advisor. Prerequisites: senior standing and permission of instructor. Same course as RSS 485.

### **RUS 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **RUS 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **RUS 501 - Theatre in Russian (1/4)**

Group reading, discussion, and preparation of one or more Russian plays. Rehearsals and performances in Russian. Prerequisites: knowledge of Russian and permission of instructor. Same course as RSS 501.  
(CR)

## **RUS 511 - Russian Reading and Conversation Group (1/4)**

Maintenance of Russian language skills through reading and conversation. Same course as RSS 511.

(CR)

## **Spanish**

### **SPA 101 - Beginning Spanish I (1)**

Essentials of grammar stressing skills in understanding, speaking, reading, and writing with classroom activities promoting conversational skills. Short readings for cultural awareness and vocabulary development.

(Language)

### **SPA 102 - Beginning Spanish II (1)**

Essentials of grammar stressing skills in understanding, speaking, reading, and writing with classroom activities promoting conversational skills. Short readings for cultural awareness and vocabulary development.

(Language)

### **SPA 103 - Beginning Spanish III (1)**

Essentials of grammar stressing skills in understanding, speaking, reading, and writing with classroom activities promoting conversational skills. Short readings for cultural awareness and vocabulary development.

(Language)

### **SPA 109 - Topics in Hispanic Literature and Culture (in English) (1)**

Seminar for first year students only. Intensive engagement with a topic in Hispanic cultural or literary studies. Taught in English. See Topics Courses.

(Humanities)

### **SPA 201 - Basic Spanish (1)**

Independent, supervised study for students at the beginning or intermediate level who wish to improve their skills in reading, writing, speaking, and understanding Spanish in an approved language school in Latin America or Spain. Students take a placement test before and after the term and the department assigns credit at a level reflecting students' accomplishments. Consult with Spanish faculty for additional information.

(CR)

### **SPA 205 - Topics and Encounters in Hispanic Cultures (1)**

Topics in Hispanic literature, culture, history, and film, taught in Spanish at the intermediate level. Students will apply their basic language skills in a variety of different contexts, from studying a topic in the target language to having regular interactions with native speakers in U.S. communities off-campus or via online virtual communities. Prerequisite: SPA 103.

(Language)

### **SPA 206 - Spanish Cultural Immersion (Intermediate Spanish Abroad) (1)**

Taught in Latin American countries such as Argentina, Bolivia, and Guatemala, students will develop their knowledge of Spanish language and culture in a classroom setting, in daily interactions with native speakers from the local community, and in excursions to culturally rich sites. Includes a homestay. Registration entails additional costs. Prerequisites: SPA 103 and permission of instructor. Offered two out of three years.

### **SPA 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **SPA 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **SPA 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **SPA 301 - Advanced Grammar and Composition (1)**

Intensive practice in writing in Spanish in combination with a study of Spanish grammar that concentrates on those aspects of the language which are challenging for the advanced student. Emphasis on expanding vocabulary and developing writing fluency. Required of all Spanish majors. Prerequisite: SPA 205 or SPA 206.

### **SPA 302 - Advanced Conversation Abroad (1)**

Taught in Guatemala and designed for students who wish to achieve a higher level of fluency and a comprehensive understanding of life in Guatemala. Includes a homestay with a local family. Registration entails additional costs. Prerequisites: SPA 205 or SPA 206 and permission of instructor. Offered two out of three years.

### **SPA 303 - Advanced Spanish Abroad (1)**

Alternative to SPA 302 for advanced students who wish to study Spanish on their own in an approved language school in Latin America or Spain. Intended for students interested in achieving a high level of fluency and a comprehensive understanding of life in a Hispanic country. Includes a homestay. Registration entails additional costs. Prerequisites: SPA 205 or SPA 206 and permission of the Department.

### **SPA 311 - Introduction to Textual Analysis (1)**

Development of reading strategies and skills needed for analyzing and understanding literary texts. Organized around a topic, literary genre, period, or major writer and chosen to meet the needs of students who are just beginning upper-level coursework in Spanish. Special attention given to vocabulary development and to the advanced grammar required for understanding literary/cultural texts. Required of all Spanish majors. Prerequisite: SPA 301, SPA 302, or SPA 303.  
(Humanities)

### **SPA 320 - Madrid: Pop of Culture (1)**

After the death of the dictator Francisco Franco in 1975, the country of Spain experienced a boom of liberation that expressed itself in numerous artistic forms. This 300-level course will have Madrid as its focus as we trace the cultural, literary, and artistic productions produced in the 1980s. The class will analyze novels, films, music, and plays produced by Madrid-born men and women of this generation. Prerequisite: SPA 311  
(Humanities)

### **SPA 323 - Sex, Gore and the Power of the Pen: 16th and 17th Century (Con)Textual Relationships (1)**

This 300-level course explores the themes of sex, honor, power-relations, politics, and gender in 16th-17th Century Spain. We will read works in various genres from several of the most iconic authors from the period, including Miguel de Cervantes, Lope de Vega, and María de Zayas. Prerequisite: SPA 311. Offered every third year.  
(Humanities/Taught in Spain)

### **SPA 325 - Collateral Cultures: Voices from the Periphery (1)**

This 300-level course gives voice to the minority languages and cultures that inhabit the Iberian Peninsula. With over one-fourth of present-day Spaniards speaking a language other than Castilian on a daily basis, an analysis of the works produced by these decentralized voices is necessary to understand the complex racial, cultural, and historical dynamics at play. Translated novels and films by Catalanian, Basque, Galician, and Arabic authors will be the focus of the class. Prerequisite: SPA 311 Offered every third year.  
(Humanities)

### **SPA 350 - Identity and Alterity in Latin American Literature (1)**

This course is a survey of Latin American literature from the colonial period to the present day. Emphasis will be placed on identity formation and the intricate relation between literature and the development of the modern nation in Spanish America. Prerequisite: SPA 311. Offered every third year.  
(Humanities)

### **SPA 353 - Revolution and Resistance in Caribbean Literature and Culture (1)**

This course offers an in-depth look at the history of political and ethnic resistance through the lens of cultural production. Particular attention will be placed on Cuba, Puerto Rico, and the Dominican Republic. Prerequisite: SPA 311. Offered every third year.  
(Humanities)

### **SPA 357 - The Boom and Post-Boom in Latin America (1)**

This class analyzes the explosive literary phenomenon of the 60s and 70s known as the "Boom." Students will read a selection of works by authors such as Gabriel Garcia Marquez, Julio Cortázar, and Carlos Fuentes with an emphasis on magic realism. Furthermore, we will explore literary trends that follow the Boom generation. Prerequisite: SPA 311. Offered every third year.  
(Humanities)

### **SPA 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **SPA 383 - Latinos in the U.S. (1)**

Origins, development, and significance of various aspects of Latino life in the United States. Prerequisite: SPA 311. Offered every third year.  
(Humanities)

### **SPA 384 - Women in the Hispanic World (1)**

This course offers an introduction to women's role in Hispanic society and culture, exploring the contrast of both "traditional" and "modern" voices. Topics range from women in literature and arts, women and political repression, gender and sexuality, exile and migration, criticism of gender roles in the Hispanic World, and mass-media portrayals of women. Prerequisite: SPA 311. Offered every third year.  
(Humanities)

### **SPA 385 - Latin American Culture and Civilization (1)**

Study of the most important cultural and political issues in Latin American civilization from Columbus to the present day. Chronicles, essays, and public speeches provide the main texts and sources of information for discussions. Prerequisite: SPA 311. Offered every third year.  
(Humanities)

### **SPA 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **SPA 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **SPA 411 - Seminar (1)**

In-depth studies in the literature and culture of Spain and Latin America. Prerequisites: at least three 300-level Spanish courses above SPA 311. May be repeated once for credit if topics are different.  
(Humanities)

### **SPA 412 - Advanced Field Research in Spanish (1)**

A capstone experience intended for students with a double major in Spanish and another department. Assumes junior or senior standing in both majors, entails field research using the target language in a Spanish-speaking country, and a final written and/or public presentation of findings in Spanish. Prerequisites: at least three 300-level Spanish courses above SPA 311. Prerequisites in the second major: completion of 2/3 of the required course work toward the second major and a research methods course (if the second major is in the social sciences). Arrangements must be made with instructor prior to registration.

### **SPA 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **SPA 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **SPA 501 - Theatre in Spanish-Workshop (1/4)**

Group reading, discussion, and preparation of one or more Latin American or Spanish plays, with attention to meaning, interpretation, staging, and costuming. Rehearsals and performances in Spanish. Prerequisites: knowledge of Spanish and permission of instructor.  
(CR)

### **SPA 511 - Spanish Reading and Conversation Group (1/4)**

Maintenance of Spanish language skills through reading and conversation.  
(CR)

### **SPA 941 - Costa Rica: Studies in Latin American Culture and Society (1)**

see ACM Programs.



## **SPA 942 - Costa Rica: Tropical Field Research (1)**

see ACM Programs.

## **English as a Second Language**

### **ESL 103 - Elementary English as a Second Language (1)**

Rapid survey of English grammar. Intensive drills designed to improve practical skills in reading, writing, listening comprehension, and speaking. Continued practice in writing paragraphs. Discussions about American culture and history.

### **ESL 204 - Intermediate English as a Second Language I (1)**

For students with an intermediate proficiency in English. Continued acquisition of language skills. Review of English grammar. Readings emphasize American culture. Daily short writing assignments. Introduction to the library, note taking, and paraphrasing. Prerequisite: ESL 103.

### **ESL 205 - Intermediate English as a Second Language II (1)**

Continued grammar review. Greater emphasis on extensive reading. Practice in expository writing, paraphrasing, and summaries. Introduction to annotated writing. Prerequisite: ESL 204.

### **ESL 306 - Advanced English as a Second Language (1)**

For students with a minimal or a partial academic proficiency in English. Instruction in writing expository and argumentative prose. Practice in writing a short research paper. Readings in academic subjects. The class may visit other courses. Prerequisite: ESL 205.

### **ESL 390 - Independent Study (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 290/390.

## **Classical Studies**

### **CLA 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **CLA 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **CLA 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **CLA 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

## **Computer Science**

### **CSC 131 - The Beauty and Joy of Computing (1)**

Computing has changed the world in profound ways. It has opened up wonderful new ways for people to connect, design, research, play, create, and express themselves. This course will focus on some of the "Big Ideas" of computing that have changed the world and consider where it will go in the future. We will discuss the challenges and implications of computer technology, including the responsibilities of those who design and use computer systems. Students will learn a bit about computer programming and a lot about writing at the college level. The lab portion of the course will introduce students to computer programming using App Inventor, a friendly programming language for building Android applications. Students will engage in several different types of academic writing and connect with the many academic resources available for Cornell students.  
(First Year Seminar)

### **CSC 131-1 - The Beauty & Joy of Computing (FYS) (1)**

Computing has changed the world in profound ways. It has opened up wonderful new ways for people to connect, design, research, play, create, and express themselves. This course will focus on some of the "Big Ideas" of computing that have changed the world and consider where it will go in the future. We will discuss the challenges and implications of computer technology, including the responsibilities of those who design and use computer systems. Students will learn a bit about computer programming and a lot about writing at the college level. The lab portion of the course will

introduce students to computer programming using App Inventor, a friendly programming language for building Android applications. Students will engage in several different types of academic writing and will conduct their own research projects. Students will be expected to enroll in an online learning community and will receive ¼ additional adjunct course credit for their participation during the fall semester. SOWELL (FYS)

### **CSC 140 - Foundations of Computer Science (1)**

This course introduces students to problems that engage the interests of computer scientists and define the field. The course introduces students to object-oriented design, a principal discipline that computer scientists use to solve problems. Students learn to divide large problems into small problems, bundle related data with methods that operate on that data, and incorporate into new designs elements of previously completed designs. The course emphasizes creative expression using an abstract notation. Students practice designing, writing, testing, and presenting programs. Success in the course does not require previous programming experience.

### **CSC 144 - Software Architecture (1)**

Disciplined design, coding, and testing of substantial programs. Specification of relationships among components of a program using composition and inheritance. Discernment of a client's requirements. Evaluation of the communication between a computer program and its human user. Prerequisite: CSC 140.

### **CSC 151 - Discrete Mathematics for Computer Science (1)**

Logic, algorithms, combinatorics, trees, graphs, and other topics from discrete mathematics used in computer science. Prerequisite: 3-1/2 years of high school mathematics. (Mathematics)

### **CSC 218 - Computer Organization (1)**

A view of the layers in the design of modern computers that begins at the level of individual logic gates, and progresses upward through elementary circuits, the design of a microprocessor, and programming at the lowest levels. An examination of costs and advantages gained by shifting functions from hardware to software, or vice versa. Prerequisites: CSC 140 and CSC 151.

### **CSC 222 - Geographic Information Systems (1)**

This course introduces students to computer science through a study of one of its important applications. Through work on projects related to their major fields of interest, students will learn how to use the visualization and statistical functions of geographic information systems as aids in making decisions. Students will learn how to represent, analyze, and display geographic data. Case studies will familiarize students with applications of the technology in the natural sciences, public policy, business, and other fields. Readings, discussions, and exercises will acquaint students with current standards, available tools, significant achievements, and the potential for the future development of geographic information systems.

### **CSC 230 - Database Technologies for Analytics (1)**

An introduction to elements of relational database design and query with an emphasis on Structured Query Language (SQL). Introduction to data mining including data interchange, filtering, scraping, and cleaning. Working with Big Data using NoSQL technology. This course meets half time in a classroom for lecture/discussion and half time in a computer lab for hands on experience with the software systems.

### **CSC 270 - Electronic Instrumentation (1)**

Prerequisites: PHY 142 or PHY 162, or permission of instructor. Same course as EGR 270 (see for course description).

### **CSC 280 - Internship in Computer Science (1)**

Participation in a computer-related area such as working with a business, government, or other appropriate institution under the direction of the organization's leaders and a faculty supervisor. The maximum credit that may be earned in a Computer Science internship is two term credits. See Additional Academic Opportunities, All-College Independent Study Courses 280/380. Prerequisites: junior or senior standing; at least two 300-level Computer Science courses; approval by the faculty supervisor, the participating institution, and the Department. (CR)

### **CSC 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **CSC 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **CSC 301 - Algorithms and Data Structures (1)**

Measurements of complexity. Comparison of methods for searching and sorting data. Alternative ways of organizing data in lists, tables, and trees. Prerequisites: CSC 140, CSC 144, and CSC 151 .

### **CSC 311 - Systems Software (1)**

Process scheduling and synchronization, interprocess communication, allocation of memory and disk space. Creation and use of software, libraries, tools, and methods for the production of efficient, reliable software. Prerequisites: CSC 144 and CSC 218. Alternate years.

### **CSC 314 - Data Management Systems (1)**

Concepts and structures necessary to design and implement a database management system. Relational and object database models. Prerequisites: CSC 144 and CSC 151. Alternate years.

### **CSC 315 - Programming Language Concepts (1)**

Principles of design and implementation of high-level programming languages. Language definition structure, run-time behavior. Alternative programming paradigms, including functional languages. Programming examples from selected languages. Prerequisites: CSC 144 and CSC 151. Alternate years.

### **CSC 317 - Computer Networks (1)**

In this course, students examine the challenges of communication through dynamic networks, including the challenges of routing messages and making communication reliable and secure. The top-down approach begins with a study of application level protocols (application level protocols govern, for example, communication through the Web and via e-mail) and proceeds to a study of the lower level transport and network layer TCP/IP protocols that are at the heart of the Internet. At the still lower link layer, students explore methods for resolving addresses and allowing multiple access on local area networks. Measurement, analysis, and simulation of networks in the laboratory. Prerequisites: CSC 140, CSC 151, and CSC 218. Classical and Modern Languages

### **CSC 321 - Computer Graphics (1)**

Introduction to the concepts and algorithms of computer graphics. Architecture of display systems, 2D and 3D geometry and algorithms, viewing transformations, interactive techniques, color concepts. Prerequisite: CSC 301. Alternate years.

### **CSC 356 - Advanced Topic: Virtual Reality (1)**

This course focuses on the field of virtual reality, bringing together research and application of methodology from computer graphics, tracking systems, perceptual psychology and other fields to develop immersive virtual reality experiences. This course is a combination of state-of-art reading and discussions, focused exercises and problem-solving sessions in virtual reality technology and applications, and a group project that includes the design, development, and evaluation of a virtual reality experience. Prerequisites: CSC 140 and CSC 151.

### **CSC 380 - Internship in Computer Science (1)**

Participation in a computer-related area such as working with a business, government, or other appropriate institution under the direction of the organization's leaders and a faculty supervisor. The maximum credit that may be earned in a Computer Science internship is two term credits. See Additional Academic Opportunities, All-College Independent Study Courses 280/380. Prerequisites: junior or senior standing; at least two 300-level Computer Science courses; approval by the faculty supervisor, the participating institution, and the Department. (CR)

### **CSC 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **CSC 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **CSC 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **CSC 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **CSC 511 - Extended Research in Computer Science (1/4)**

Reading coupled with research on a specialized topic. This adjunct course must be taken over four successive terms. Prerequisites: departmental GPA of 3.0 or higher, prior completion of one course in the Department at or above the 200 level, and permission of instructor.

(CR)

### **CSC 512 - Professional Practice in Computer Science (1/4)**

Each student will gain experience in the iterative development of software through all stages of development, in presentations of a project to their peers, and in the review of their peers' projects. Success will require application of knowledge and skills acquired in several core and elective courses. This practice solving problems like those encountered in industry and advanced study will prepare students for the challenges and opportunities that await them after graduation. Students should consult with an advisor in the department before beginning the course. In this course, students should plan on improving a project begun and substantially completed in another course. That other course may be taken concurrently. The course involves meeting twice each term for a total of 12 hours per semester and approximately 24 hours of work outside of class. Is repeatable once for credit.

Prerequisites: CSC 140, CSC 144, CSC 151, CSC 218, CSC 301. Students should take this course during (or after) the year in which they complete other requirements for the major.

(CR)

## **Economics and Business**

### **ECB 101 - Macroeconomics (1)**

Basic macroeconomic theory. Analytical evaluation of the determinants of national output, inflation, and unemployment. Examination of fiscal and monetary policies and issues in international trade and payments. Introduction of tools necessary to analyze economic models.

(Social Science)

### **ECB 102 - Microeconomics (1)**

Basic microeconomic analysis of consumer choice, the business firm, and resource markets in labor, capital, and land. Analysis and critique of government policy in problem areas such as monopoly power and government regulations and expenditures. Prerequisite: two years of algebra in high school.

(Social Science)

### **ECB 111 - Introduction to Business (1)**

This course introduces a core business function such as marketing, operations, talent management, or information systems. The course will illustrate relevant social science theory in the context of business practice. The specific area of business will depend on the faculty instructor.

### **ECB 121 - Data Visualization (1)**

This course enables students to see stories in numbers. Students will work with business and economic data, students will identify central tendencies and patterns of dispersions. They will learn methods of exploring data and effectively communicating insights through appropriate graphical presentation.

### **ECB 121-1 - Data Visualization (FYS) (1)**

Businesses amass data at staggering rates. As a result, they aim to convert information into valuable insight. Data visualization is the most popular technique for generating insights. This course introduces methods for representing data for better comprehension and communication. It introduces students to visual perception and visual design principles. We will train our eyes to distinguish between effective and ineffective representations. Working specifically with business and economic data, students will locate central tendencies, patterns of dispersions, and anomalies. We also explore a range of graph media contrasting the fit among media, data type and message. Students will also be introduced to techniques for visualizing concepts or analytical graphing. Student projects will involve designing information dashboards. HEJEEBU

(FYS)

### **ECB 151 - Financial Accounting (1)**

This course provides guidance in how to use accounting reports for financial analysis. The primary objective of this course is to understand and analyze financial statements including Balance Sheets, Income Statements, Statement of Cash Flows, and Statement of Retained Earnings. Objectives of financial accounting rather than bookkeeping techniques.

### **ECB 206 - Bonds, Mortgages, and Their Derivatives (1)**

Fixed income (debt) securities account for about two thirds of the market value of all securities that are outstanding in the world. This course focuses on various types of debt securities and their markets, and in turn develops tools for the valuation and management of these securities and the interest rate risk associated with them. Additional topics include yield curve analysis, fixed income portfolio management, and immunization strategies.

Alternate years.

### **ECB 208 - Health Economics (1)**

Examination of the structure and financing of the U.S. health care system, including government programs, employer sponsored programs, and the individual insurance market. Students will apply economic reasoning to contemporary issues involving the organization, cost, and distribution of resources in the health sector. The course will focus primarily on healthcare in the United States but will include coverage of other nations as well. Alternate years.  
(Social Science)

### **ECB 210 - Introduction to Financial Management (1)**

This course provides a basic understanding of business finance from the company's perspective. The primary objective of this course is to introduce basic financial concepts and decision-making techniques, and applications in financing and investment decisions in a corporation. Focus on two major areas of corporate finance: corporate investing (capital budgeting) and financing (capital structure) activities. Prerequisite: ECB 151.  
(Social Science)

### **ECB 212 - Social Networks (1)**

In a tech savvy society, personal and business relationships often originate on-line. Computer-mediated relationships are typically represented as networks. This course introduces the science of networks, integrating ideas from sociology, economics, and mathematics. We will learn how to identify important people and relationships within a social network. We will also learn how to predict the formation of new links among members of a social network. The course also explores how information and economic behavior, such as viral marketing ads, travel across a network. Throughout the class, students will visualize networks and explore course concepts through data acquired from popular social media websites including Facebook, YouTube, and Twitter. Prerequisites: STA 201 or STA 348.  
(Social Science)

### **ECB 223 - International Economics (1)**

Survey of international trade and finance with a theoretical emphasis. Why nations trade, the theory of protection, and commercial policy. Balance of payments, theories of exchange rate determination, and international macroeconomic theory and policy. Prerequisites: ECB 101 and ECB 102. Offered two out of every three years.  
(Social Science)

### **ECB 225 - Money and Banking (1)**

The role of financial institutions and financial assets in macroeconomic activity. The stock market, money markets, monetary policy, money supply and demand, interest rates, inflation, international financial markets, and the International Monetary Fund. Prerequisites: ECB 101 and STA 201 or STA 348.  
(Social Science)

### **ECB 231 - Employment Law (1)**

Overview of employment-at-will and its limitations; wages and hours; medical/family leave; privacy; drug testing; workers' compensation; and fundamental anti-discrimination law. This course aims to cultivate student's research and writing skills.

### **ECB 243 - Investments (1)**

This course provides a comprehensive overview of investments from the capital market investor's perspective. The primary objective of this course is to introduce the modern portfolio theory and its applications in investment analysis. The focus of the course is on basic principles that represent important long-term knowledge. Institutional details and current, potentially short-living trends are not the focus. Prerequisites: ECB 101 or ECB 102, ECB 151, and STA 201 or STA 348.  
(Social Science)

### **ECB 251 - Introduction to Entrepreneurship (1)**

This course provides an introduction to the study of how business enterprises are created and revitalized. Included will be an overview of the financial, marketing, organizational, and managerial tools that entrepreneurs use when shaping an enterprise. In addition, this course will introduce the topic of social entrepreneurship, in which organizations are created that not only generate a return for the entrepreneur, but also address significant social problems such as poverty alleviation or environmental protection.

### **ECB 253 - Managerial Accounting (1)**

Continuation of ECB 151. Application of accounting data to management decisions. Prerequisites: ECB 102 and ECB 151. Alternate years.

### **ECB 257 - Labor Economics (1)**

Exploration of a variety of current issues in labor markets from an economics perspective. Included among the questions to be addressed in this course are: Why do professional athletes, rock stars and movie stars earn so much more than the rest of us? What is the economic value of a college degree? Why do some college majors earn so much more than others? Who pays for and benefits from on-the-job training? Are workers better off when the government regulates safety in the workplace? How does discrimination in the labor market affect women, African Americans and other

minorities? Why has union membership fallen so dramatically during the last 30 years? Who benefits from and who is hurt by increased international competition? Course activities will include a series of data collection/analysis/presentation projects. Prerequisites: ECB 101 or ECB 102, and STA 201 or STA 348. Alternate years.  
(Social Science)

### **ECB 258 - Economics of Sports (1)**

Economic analysis of various aspects of professional sports and intercollegiate athletics. Topics will include the relationship between on-the-field performance and economic profits, the economics of competitive balance, the market for professional franchises, public financing of stadiums and arenas, labor unions and labor relations, discrimination in the market for professional athletes, the economics of intercollegiate athletics, and the role of the NCAA in intercollegiate athletics. Course activities will include a series of data collection/analysis/presentation projects. Prerequisites: ECB 102 and STA 201 or STA 348. Alternate years.  
(Social Science)

### **ECB 261 - Global Environmental Economics (1)**

Economic analysis of global environmental issues, with special emphasis on developing countries. Review of basic economic theory with respect to environmental issues. Policy analysis of sustainable development, population growth, deforestation, air and water pollution, ecotourism, international hazardous waste, biodiversity, and global warming. Recommended prerequisite: ECB 101 or ECB 102. Alternate years.  
(Social Science)

### **ECB 280 - Internship in Economics and Business (1)**

Observation of and participation in activities related to Economics and Business courses and to the career goals of the student. The student works with a business, government, or other appropriate institution under the direction of the organization's leaders and a faculty supervisor. Internships are normally for two terms. The maximum credit that may be earned in an Economics and Business internship is three term credits. A maximum of two course credits may be counted toward satisfying the requirement of nine course credits numbered in the 300s or 400s for the Bachelor of Arts degree.

### **ECB 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ECB 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ECB 301 - Intermediate Microeconomics (1)**

Economic theory of choice in a price system. The forces that determine price and production decisions of business firms in competitive and monopolistic markets, and the allocation of resources through these markets. Economic analysis applied to decision-making in government and business firms, and to clarify social issues. Prerequisites: ECB 102 and junior standing.  
(Social Science)

### **ECB 302 - Intermediate Macroeconomics (1)**

Factors influencing the level of national income and employment, movement of prices, and behavior of other macroeconomic variables. Postwar economic developments and contemporary monetary and fiscal policy problems. Problems of economic growth and international trade. Prerequisites: ECB 101, ECB 102, and junior standing.  
(Social Science)

### **ECB 311 - Industrial Organization (1)**

Theories of market structure: perfect competition, perfect monopoly, oligopoly, cartels. Theories of strategic behavior, emphasizing game theoretic approaches to the study of market structures. The economics of information. Prerequisite: ECB 301. Alternate years.  
(Social Science)

### **ECB 320 - Women, Men, and Labor Market Seminar (1)**

The seminar examines male/female differences in labor market outcomes. Theoretical explanations will be confronted with empirical evidence. Topics to be covered include: labor supply behavior and the allocation of time in the household, human capital investments in education and labor market experience, discrimination against women in the acquisition of human capital, labor market discrimination against women and the pay gap, and the economics of anti-discrimination laws. This course also counts towards the GSS major. Prerequisites: ECB 301 and STA 201 or STA 348. Alternate years.  
(Social Science)

### **ECB 321 - Macroeconomics Seminar (1)**

An investigation into why rich countries are rich and poor countries are poor. Macroeconomic growth theory will be examined in an attempt to explain why some countries have experienced growth miracles and others have been growth disasters. Course may be taught overseas in alternate years. Prerequisite: ECB 302.  
(Social Science)

### **ECB 323 - International Economics Seminar (1)**

Theory of international specialization and world trade, the institutions and mechanisms of world trade and payments, and major policy issues of concern to both industrial and developing economies. Course may be taught overseas in alternate years. Prerequisite: ECB 302.  
(Social Science)

### **ECB 326 - Managerial Economics (1)**

This course applies formal tools of microeconomics to decision-making problems facing management. We will implement the ideas of supply, demand, elasticity, production and cost functions. Special emphasis will be placed on the statistical tools involved in demand forecasting and on a variety of pricing strategies. The course is built around a series of case studies produced by the Harvard Business School.

### **ECB 327 - Organizational Behavior (1)**

This course develops broad theoretical approaches to examining organizational behavior. It introduces the knowledge and skills necessary for successfully managing human capital in organizations. It develops a strong value for evidence-based approaches to decision-making and their potential for improving the quality of human capital management activities. Students will be able to apply evidence-based approaches and professional standards to diagnosing and addressing OB and human capital challenges. Students will improve writing, teamwork, critical thinking, and discussion skills through course requirements and class activities.

### **ECB 328 - Human Capital Management (1)**

With the transition to a knowledge-based workforce, designing and implementing effective human capital systems is essential. This class will utilize cases and hands on simulations to facilitate understanding of the leaders' role in implementing and utilizing effective human capital systems. We will focus on the processes of talent acquisition, learning and development, performance management, and career/succession planning and understand how these human capital processes impact both the success of the business/organizational strategy and the engagement of people. Through the study of human capital, we find that the traditional Human Resources role has expanded to include not only implementation of controls and services for internal customers, but also the importance of the partnership among leaders, employees and human resources professionals.

### **ECB 337 - Economics of Recessions and Depressions (1)**

Investigation into the causes and economics of recessions, depressions, and expansions. Included will be a broad review of the history of macroeconomic thought, the development of which has focused on explaining business cycles. The Great Depression will be examined in detail. An introduction to business forecasting will also be covered. Prerequisite: ECB 302. Alternate years.  
(Social Science)

### **ECB 340 - Econometrics (1)**

Introduction to the use of statistics in economics and business, employing economic theory and real-world data in order to predict future demand for a product and to forecast levels of inflation and unemployment. Statistical methods include cross-section and time series analysis, and single and multivariate regression. Prerequisites: ECB 101, ECB 102, and STA 201 or STA 348. Alternate years.

### **ECB 341 - Mathematical Economics (1)**

Application of mathematical techniques to economic analysis, with emphasis on the theory of demand and the theory of the firm. Constrained and unconstrained optimization. Decision-making under uncertainty. Prerequisites: ECB 102 and MAT 120 or MAT 121. Alternate years.  
(Social Science)

### **ECB 351 - Financial Management (1)**

Analytic tools of economics and accounting applied to a firm's financial value. Economics of the securities and financial markets in which firms obtain capital. Prerequisite: ECB 253.  
(Social Science)

### **ECB 352 - Financial Management Seminar (1)**

This course examines options and futures markets, serving as an introduction to the dynamic world of derivatives. Topics of the course include options pricing models, trading strategies, forwards vs. futures, and risk management. Prerequisites: ECB 151, ECB 301 or ECB 302, and ECB 210, ECB 225, or ECB 243.  
(Social Science)

### **ECB 353 - Business Analytics I (1)**

This is the first of two courses that introduces students to core methods of business analytics. The course covers data mining and regression models. Topics may include association rules, cluster analysis, logistic regression. Using the case method and quantitative techniques, students will collaboratively address complex and multi-dimensional business problems. Prerequisites: STA 202 or STA 348.

### **ECB 354 - Business Analytics II (1)**

This course enables students to develop spreadsheet models of business processes for more effective managerial decisions. The course emphasizes a data-driven approach for identifying potential opportunities and improvements in the value chain. Students will learn a variety of optimization models as they apply to business situations such as workforce scheduling and operations management. Students will also discover how managers address uncertainty through simulation models. The course will extensively use MS Excel plus additional software. Prerequisites: ECB 102 and STA 201. STA 347 and STA 348 may be substituted for STA 201; STA 202 is recommended.

### **ECB 356 - Economics of Organizations Seminar (1)**

Organizational Economics offers an economic approach to the study of management. We explore how concepts such as optimization and equilibrium can be applied to real problems inside the firm, such as the design of effective performance evaluation systems and employee compensation plans. We consider in detail the problem of assigning decision-making authority within a company. Organizational economics views the firm as a collection of contractual relationships. Topics covered include contract theory, incentives within organizations, relational contracting, and careers in organizations. The course will use Harvard Business School case studies and will invite business practitioners. Prerequisite: ECB 301.

### **ECB 358 - Analytics Case Seminar (1)**

This course applies the techniques of business analytics to a specific area of application, for example marketing analytics, health care analytics, sports analytics, etc. The course will involve a major case study with an actual organization. The specific orientation of the course will depend on the faculty instructor.

### **ECB 359 - Asset Valuation (1)**

This course focuses on topics of financial management that involve forecasting and valuations, including time value of money, financial analysis (ratio analysis and cash flow analysis), pro-forma, cost of capital, valuation methods, capital budgeting, and real options. The primary objective of this course is to provide students with a framework for analyzing financial information and to show how to apply this framework to do forecasting and valuations. This course integrates key concepts from finance, accounting, strategy and economics, and bridges the gap between 'academic' theory and 'Wall Street' practice. Prerequisites: ECB 151 and ECB 301 or ECB 302 ; and ECB 225 or ECB 243 or ECB 210

### **ECB 362 - Strategic Management Capstone Seminar (1)**

This course is intended to introduce students to the basics of how organizations are managed, with a special focus on the role played by a business firm's strategy. Strategic management is concerned with how a firm sets its direction, chooses its business activities, and establishes and defends its position in a competitive market. This course will introduce you to concepts and tools that will help you to develop an understanding of how strategies are formed and managed, and how competitive advantage might be created and sustained.

### **ECB 380 - Internship (1)**

Observation of and participation in activities related to Economics and Business courses and to the career goals of the student. The student works with a business, government, or other appropriate institution under the direction of the organization's leaders and a faculty supervisor. Internships are normally for two terms. The maximum credit that may be earned in an Economics and Business internship is three term credits. A maximum of two course credits may be counted toward satisfying the requirement of nine course credits numbered in the 300s or 400s for the Bachelor of Arts degree. Prerequisites: junior standing; courses that adequately prepare the student for the internship; and approval by the faculty supervisor. (CR)

### **ECB 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ECB 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ECB 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ECB 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.



## **ECB 511 - Assessment Center Training (1)**

Assessment Centers are a series of standardized group activities that are the basis of judgements or decisions about human behavior in a work or an organizational setting. Assessment centers may take place at the organization's home office or at a remote site maintained by an assessment center company. Two specific assessment activities - performance appraisal and job selection - will anchor the adjunct course. The information gained from the assessment center activities is typically used by an organization to select or promote employees.

Assessment centers require training a group of assessors (raters) who work as a team to evaluate human behavior in the context of a simulated work environment. Training of assessment center assessors and role-players takes several days and involves learning best practices in a work environment, government regulations (e.g., Title IX legislation and implementation) as well as using methodologically sound behavioral observation techniques.[1] In the class students will have an opportunity to be assessors, role-players, and job candidates. There will be a high degree of active participation required on the part of all students to make the assessment center successful. Although background reading will be provided about the nature, methods and goals of assessment centers, the bulk of the course will involve active participation in the assessment center activities. Students in this semester long course will be required to attend each class meeting, participate in all activities, keep a structured journal, and practice writing an assessment center final report.

## **Education**

### **EDU 205 - Historical Foundations of Education (1)**

This course explores the historical, sociological, and philosophical foundations of education. The class will draw upon the broad, theoretical issues of education through a variety of written and discussion-based activities. Particular attention is paid to curriculum theory, the civic and democratic mission of the common schools movement, Dewey and the Progressive Era of schooling, and the current social context of schools. Students are encouraged to critically analyze the purpose of schooling and to further develop their own philosophies of education through reflection and dialogue.

No S/U option.

(Humanities)

### **EDU 215 - Educational Psychology (1)**

The factors that influence the nature and quality of growth, development, and learning during the educational process. Examination, through the use of recent research and illustrative examples, of important psychological characteristics of children and adolescents as learners, and of teachers and the teaching process in the elementary and secondary schools. Fifteen practicum hours required in the schools. Students must provide their own transportation. Not open to juniors and seniors without permission of instructor. No S/U option.

(Social Science)

### **EDU 216 - Education Policy and Practice (1)**

This course will explore education policies and their relationship to sociological patterns of school resegregation, the rise of credentialism, the end of educational expansion, and inequality of educational opportunity. Students in the course will be introduced to the history of policymaking in education beginning with the education reform policies of Horace Mann. Students will also examine demographic data on educational attainment, analyze the policies that alleviate or reinforce educational inequality, and describe what assumptions lie behind current reform ideas. We will evaluate the dynamics of current debates by referencing the long-standing tensions among the different purposes of schooling we have in our nation. Same course as POL 216.

(Social Science)

### **EDU 230 - Exceptional Learner (1)**

An introduction to understanding the diversity of learners in K-12 classrooms and how differentiated teaching methods and materials are essential to create a more inclusive and equitable environment for all students. The major focus of the course will be identifying the strengths and challenges of students to increase engagement and raise achievement through varied approaches to teaching culturally and linguistically diverse learners and students with documented needs. No S/U option.

(Social Science)

### **EDU 240 - Education and Culture (1)**

This course explores the influence of social issues such as discrimination, diversity, equity, racism, sexism, homophobia, and ethnic and socioeconomic pluralism in American schools. The goals for this class are to understand and be sensitive to the values, beliefs, lifestyles, and attitudes of individuals and the diverse groups found in a pluralistic society and to translate knowledge of human relations into attitudes, skills, and techniques that will support favorable learning experiences. Through critical analysis, this course reveals ways in which dehumanizing biases may be reflected in instructional materials, methodologies, media, and everyday encounters, and students learn how these interactions may influence classroom dynamics and student learning. This course also counts towards the GSS major. No S/U option.

(Social Science)

### **EDU 240-3 - Education and Culture (W) (1)**

This course explores the influence of social issues such as discrimination, diversity, equity, racism, sexism, homophobia, and ethnic and socioeconomic pluralism in American schools. The goals for this class are to understand and be sensitive to the values, beliefs, lifestyles, and attitudes of individuals and the diverse groups found in a pluralistic society and to translate knowledge of human relations into attitudes, skills, and

techniques that will support favorable learning experiences. Through critical analysis, this course reveals ways in which dehumanizing biases may be reflected in instructional materials, methodologies, media, and everyday encounters and understand how these interactions may influence classroom dynamics and student learning. Not open to students who have completed their writing course (W) requirement. No S/U option. HEINRICH (Writing Requirement (W))

### **EDU 270 - Comparative Education in Belize (1)**

This is an off-campus course offered on San Pedro island in the country of Belize. Students spend time in the local schools interacting with students, parents, teachers and community members. Study includes analysis of the island's various cultural groups including Mestizo, Mayan, Hispanic, Garifuna and Creole populations. Students are introduced to the basic principles of qualitative and ethnographic research for the purposes of completing a qualitative research project based upon their off-campus experience. Prerequisites: Writing course, EDU 215 and EDU 240. (Social Science)

### **EDU 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **EDU 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **EDU 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **EDU 301 - Secondary Curriculum and Instruction (1)**

This course is designed to provide secondary teacher education candidates with an opportunity to study, reflect, question, and become knowledgeable about instructional methods while applying and practicing these methods in a collaborative and constructive setting. Major topics include: assessment of student learning, classroom management, curriculum development, and instructional technology. Prerequisite: EDU 215 or EDU 230.

### **EDU 302 - Secondary English Methods (1)**

This course is designed to introduce students to the methods and strategies of teaching English at the secondary level. Students will focus on several topics and themes that are of great importance to practicing and aspiring teachers. These topics include recent debates about the teaching of English, active learning opportunities with literature, methods of instruction, curriculum development and alignment with standards, the use of technology in teaching and in student research, and assignment design and evaluation. This course is conducted at the practicum site. Transportation to and from the practicum site is the responsibility of the student. Prerequisites: EDU 215 or EDU 230.

### **EDU 303 - Secondary Art Methods (1)**

This course is designed to help prepare students to be effective teachers of art at the secondary school level. The practicum will allow students to observe and teach in the high school art classroom and examine the stages of artistic development and appropriate art lessons and teaching strategies. Consequently, students will be in conversation about the particulars of teaching various artistic mediums in the high school setting. This course is conducted at the practicum site. Transportation to and from the practicum site is the responsibility of the student. Prerequisites: EDU 215 or EDU 230.

### **EDU 304 - Secondary Foreign Language Methods (1)**

This course explores the theory and practice of teaching and learning a foreign language in the secondary school setting. Topics will include instructional strategies for teaching conversational skills and cultural appreciation in the target language, and learning theory as it relates to the study of foreign language. This course is conducted at the practicum site. Transportation to and from the practicum site is the responsibility of the student. Prerequisites: EDU 215 or EDU 230.

### **EDU 305 - Secondary Math Methods (1)**

This course is focused on the practice of teaching mathematics. It will offer students opportunities to observe, experiment with, and evaluate specific instructional methods for mathematics and discuss the importance of balancing theory with practice. Specifically, this course is designed around three primary domains of teaching mathematics: providing instructional explanations of mathematics, facilitating small-group cooperative problem solving, and orchestrating whole-class mathematical discussions. This course is conducted at the practicum site. Transportation to and from the practicum site is the responsibility of the student. Prerequisites: EDU 215 or EDU 230.

### **EDU 306 - Secondary Social Studies & History Methods (1)**

This course introduces students to methods and strategies for teaching social studies and history at the secondary level. In the course students will be introduced to the historical and theoretical foundations of teaching social sciences, as well as to general issues involved in planning and organizing a social studies curriculum. These include primary source-based history instruction; methods of historical production (e.g., films, graphic histories,

documentaries); curriculum development; aligning instruction with standards; technology and social studies teaching; and assignment design and evaluation. This course is conducted at the practicum site. Transportation to and from the practicum site is the responsibility of the student.

Prerequisites: EDU 215 or EDU 230.

### **EDU 307 - Secondary Science Methods (1)**

This course is designed to provide students with the opportunities to enhance science content knowledge and develop pedagogical skills needed for effective science teaching in middle and high school classrooms. A great deal of class time is devoted to experiential activities that deal with science content and process skills, and how to teach them to middle and high school students. Students will demonstrate their ability to effectively teach science using various strategies such as inquiry, modeling and computer simulations. This course is conducted at the practicum site. Transportation to and from the practicum site is the responsibility of the student. Prerequisites: EDU 215 or EDU 230.

### **EDU 314 - Methods of Elementary Mathematics (1)**

Current elementary school methods of instruction, lesson planning, computer applications, student assessment, and classroom management. Thirty hours of observation-practicum in the schools. Students must provide their own transportation. This course must be taken PRIOR to student teaching. Additional Prerequisites: EDU 215 or EDU 230 and admission to Teacher Education Program. No S/U option. (Teacher Preparation)

### **EDU 317 - Methods of Elementary Science and Social Studies (1)**

Current elementary school methods in the teaching of natural science and social studies. Special emphasis on the development of interdisciplinary methods, the development of curricular units, lesson design, computer applications, student assessment, and classroom management. Thirty hours of observation-practicum in the schools. Students must provide their own transportation. This course must be taken PRIOR to student teaching.

Prerequisite: EDU 215 or EDU 230. No S/U option.

(Teacher Preparation)

### **EDU 318 - Methods of Elementary Language Arts and Reading (1)**

Current elementary school methods in the teaching of reading, instructional planning, language acquisition, student assessment, and teaching materials in the field of elementary language arts and reading. Reading Recovery, Title I, and other literacy support programs are addressed. Thirty hours of observation-practicum in the schools. Students must provide their own transportation. This course must be taken PRIOR to student teaching.

Prerequisite: EDU 215 or EDU 230. No S/U option.

(Teacher Preparation)

### **EDU 319 - Children's Literature (1)**

Comparative study of literary texts for children, including instructional planning, the teaching of reading, the use of literature with elementary students, and student assessment. Thirty hours of observation-practicum in the schools. Students must provide their own transportation. This course must be taken PRIOR to student teaching. Prerequisite: EDU 215 or EDU 230. No S/U option.

(Teacher Preparation)

### **EDU 328 - Secondary Literacy, Pedagogy, and Management Theory (1)**

This course equips students with content area reading methods, instructional strategies and management techniques at the secondary level. Students complete a 40 hour practicum at the junior high or high school level, and they must provide their own transportation to the school site. It is highly recommended that this course must be taken PRIOR to student teaching. Prerequisites: EDU 215 or EDU 230. and admission to Teacher Education Program. No S/U option.

(Teacher Preparation)

### **EDU 330 - Foundations of Literacy (1)**

This course is designed to facilitate an understanding of the processes of literacy development for elementary learners. Diversity, in its many forms, will frame many of the discussions on the ways literacy is culturally situated within elementary classrooms. A range of research-based reading and writing theories will be examined as well as the history of reading and writing theories. A focus on the major components of reading (phonemic awareness, word identification/phonics, vocabulary, fluency and comprehension in context) and the integration of technology in literacy learning will be emphasized. Lastly, how, as elementary teachers, might reading struggles be mediated and authenticated via natural learning experiences for diverse students will be discussed throughout the course. DOES NOT COUNT TOWARDS THE ELEMENTARY EDUCATION MAJOR

Prerequisites: Admittance to the Teacher Preparation Program/Education Department (during the sophomore year) and either EDU 318 - Methods of Elementary Language Arts and Reading (1) or EDU 319 - Children's Literature (1) or permission of instructor. Alternate years.

### **EDU 340 - Language, Literacy, and Communication (1)**

This course is designed to teach pre-service teachers how to recognize and implement appropriate environmental strategies that support early literacy development and appropriate early experiences with reading and writing. Emphasis is placed on speaking and listening, as well as reading and writing readiness. A repertoire of strategies that include (1) plans for creating language- and literacy-rich classroom environments and (2) activities that intentionally promote early literacy development will be developed. Developmentally appropriate strategies consistent with current knowledge of how young children develop, learn, and thrive in a literacy-rich environment will be emphasized. Upon completion of the course, students will be

able to select, plan, implement, and evaluate appropriate early literacy experiences. DOES NOT COUNT TOWARDS THE ELEMENTARY EDUCATION MAJOR Prerequisites: Admittance to the Teacher Preparation Program/Education Department (during the sophomore year) and either EDU 318 - Methods of Elementary Language Arts and Reading (1) or EDU 319 - Children's Literature (1) or permission of instructor. Alternate years.

### **EDU 350 - Literacy in Content Areas: Elementary (1)**

Educators must first and foremost recognize the fact that reading and writing, far from being isolated areas of study, touch upon all facets of learning in each and every content area. The major goal of this course, then, is to understand how, as elementary teachers of all content areas, might employ developmentally appropriate literacy strategies to enhance content area learning. Students will become familiar with the Title I laws in Iowa and take a close look at the kind of reading support Title I teachers offer. DOES NOT COUNT TOWARDS THE ELEMENTARY EDUCATION MAJOR Prerequisites: Admittance to the Teacher Preparation Program/Education Department (during the sophomore year) and either EDU 318 - Methods of Elementary Language Arts and Reading (1) or EDU 319 - Children's Literature (1) or with permission of instructor. Alternate years.

### **EDU 360 - Reading Assessment, Diagnosis, and Evaluation (1)**

This course will examine reading assessment theory, materials and procedures. The foundational concepts of reading assessment, diagnosis and evaluation will be developed. Additionally, the uses of reading assessment and the communication of reading assessment results will be emphasized. Students will engage in a variety of reading assessments with two elementary students that are valid and reliable so as to make on-going instructional changes and to maintain successful classroom literacy practice. results will be emphasized. Students will engage in a variety of reading assessments with two elementary students that are valid and reliable so as to make on-going instructional changes and to maintain successful classroom literacy practice. DOES NOT COUNT TOWARDS THE ELEMENTARY EDUCATION MAJOR. Prerequisites: Admittance to the Teacher Preparation Program/Education Department (during the sophomore year) and either EDU 318 - Methods of Elementary Language Arts and Reading (1) or EDU 319 - Children's Literature (1) or with permission of instructor. Alternate years.

### **EDU 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **EDU 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.  
(CR)

### **EDU 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **EDU 410 - Student Teaching I (1)**

A 14-week clinical teaching experience under the direction of Cornell faculty and certified K-12 school teachers in approved elementary or secondary schools. A bi-weekly on-campus evening seminar is required. These three courses must be scheduled in consecutive terms during the senior year or during a fifth year. Required for a teaching certification recommendation. Students must provide their own transportation. EDU 440 may be required depending upon public school calendars and for student pursuing K-8 and 5-12 certification. Prerequisites: All 200- and 300-level Education courses and approval of the Education Department.  
(CR) (Teacher Preparation)

### **EDU 420 - Student Teaching II (1)**

A 14-week clinical teaching experience under the direction of Cornell faculty and certified K-12 school teachers in approved elementary or secondary schools. A bi-weekly on-campus evening seminar is required. These three courses must be scheduled in consecutive terms during the senior year or during a fifth year. Required for a teaching certification recommendation. Students must provide their own transportation. EDU 440 may be required depending upon public school calendars and for student pursuing K-8 and 5-12 certification. Prerequisites: All 200- and 300-level Education courses and approval of the Education Department.  
(CR) (Teacher Preparation)

### **EDU 430 - Student Teaching III (1)**

A 14-week clinical teaching experience under the direction of Cornell faculty and certified K-12 school teachers in approved elementary or secondary schools. A bi-weekly on-campus evening seminar is required. These three courses must be scheduled in consecutive terms during the senior year or during a fifth year. Required for a teaching certification recommendation. Students must provide their own transportation. EDU 440 may be required depending upon public school calendars and for student pursuing K-8 and 5-12 certification. Prerequisites: All 200- and 300-level Education courses and approval of the Education Department.  
(CR) (Teacher Preparation)

### **EDU 440 - Student Teaching IV (1)**

A 14-week clinical teaching experience under the direction of Cornell faculty and certified K-12 school teachers in approved elementary or secondary schools. A bi-weekly on-campus evening seminar is required. These three courses must be scheduled in consecutive terms during the senior year or during a fifth year. Required for a teaching certification recommendation. Students must provide their own transportation. EDU 440 may be required depending upon public school calendars and for student pursuing K-8 and 5-12 certification. Prerequisites: All 200- and 300-level Education courses and approval of the Education Department.  
(CR) (Teacher Preparation)

### **EDU 450 - Music Student Teaching I (1)**

### **EDU 460 - Music Student Teaching II (1)**

### **EDU 470 - Music Student Teaching III (1)**

### **EDU 471 - Music Student Teaching IV (1)**

### **EDU 483 - Senior Seminar (1)**

Students complete this capstone course upon conclusion of their student teaching. Involves critical examination of current educational controversies, reform ideas, ethical considerations, legal questions, and administrative problems facing modern American education. Students complete a detailed professional portfolio and, a five-year professional development plan. Credit/No Credit  
(CR). (Teacher Preparation)

### **EDU 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **EDU 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

## **Engineering**

### **EGR 131 - Introduction to Engineering Design (1)**

The goal of engineering is to solve problems faced by society. In this course, students will learn how the engineering process works: defining the problem; conducting background research; constructing design criteria; evaluating and testing designs, and developing and testing prototypes. Students will also discuss and critically analyze papers discussing ethical issues that arise both during the design process as well as the interaction between technology and society. This course also emphasizes the importance of effective communication for engineers: students will be required to present their own reports (both oral and written) as well as critiquing other papers.

### **EGR 231 - Engineering Mechanics (1)**

This course introduces students to the essential principles and techniques of analysis of continuous media including both solids and fluids. Topics include conservation laws, static and dynamic behavior of rigid bodies, fluids and fluid statics, internal forces, moments of inertia, stress and strain, as well as an introduction to vibration. Prerequisite: PHY 161

### **EGR 235 - Experimental Engineering & Quality Control (1)**

Principles and procedures that working engineers use to guarantee the quality of designs and products. Topics include calibration, curve fitting, hypothesis testing, measurement uncertainty, and probability distributions. Furthermore, students will gain a basic understanding of engineering production management techniques, including economic analysis, lean manufacturing, and six sigma principles. Emphasis is placed on reporting and presenting results to both technical and non-technical audiences. Prerequisites: EGR 131 & (MAT 120 /MAT 121 or STA 201)

### **EGR 240 - Manufacturing Processes (1)**

Explores the processes and decisions involved in manufacturing commercial products, from everyday items to futuristic gadgets. Topics include machining, injection molding, casting, welding, and additive manufacturing. Emphasizes material and process selection for real-world applications. Students will use the computer lab for 3D design and will learn to operate computerized numerical control (CNC) machines and 3D printers for prototype production. Prerequisites: EGR 131 & EGR 231

### **EGR 270 - Electronic Instrumentation (1)**

Principles of electronics, signal processing, and computer interfacing needed to understand, configure, and troubleshoot modern electronic and computer-based research equipment. Transducers, operational amplifiers, test equipment, integrated circuits, data transmission, computerized data acquisition, and analog to digital conversion. Prerequisite: PHY 142 or PHY 162, or permission of instructor. Same course as CSC 270.

### **EGR 271 - Engineering Thermodynamics (1)**

Thermodynamics is the study of energy and its conversion to other forms, notably work and heat. Topics include internal energy, enthalpy, entropy and temperature; the first and second laws of thermodynamics; combustion, cyclic processes, engines, efficiency and refrigeration; heat transfer. Practical applications of thermodynamics are also discussed, including power generation, pollution and waste control, materials science and chemical engineering. Prerequisite: PHY 161, CHE 121 or CHE 161.

### **EGR 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **EGR 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **EGR 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **EGR 311 - Engineering Circuits (1)**

Electronic circuits are found in computers, TVs, cell phones, and many other modern electrical appliances. This course teaches both the principles of electrical circuits as well as the mathematical techniques used to model and analyze circuit behavior. Topics include Kirchhoff's laws, Thévenin and Norton equivalents, small-signal models, time-domain and frequency-domain analyses, Laplace transforms, logic circuits, and operational amplifiers. Prerequisite: PHY 162

### **EGR 331 - Engineering Materials (1)**

It's essential for engineers to understand the properties of materials used in designs: how materials behave under different environmental conditions, and how they fail. Students will study the mechanical, electrical, optical, chemical, and physical properties of materials including metals, glass and ceramics, polymers and composites. Changes in materials as a function of temperature are covered as well as stress and strain. Prerequisite: EGR 231

### **EGR 332 - Mechanics of Deformable Bodies (1)**

An introduction to the effects of forces on solid bodies. Structures will be analyzed under axial, shear, torsional, and bending loads. Students learn to assess structures in terms of stress, strain, and deflection under the various types of loading. The course emphasizes individual and group problem-solving. Students apply course concepts to build and evaluate their own structures during hands-on design projects. Prerequisite: EGR 231 and MAT 122.

### **EGR 346 - Fluid Mechanics (1)**

An introduction to the mechanics of liquids and gases. Topics include fluid statics; differential analysis of fluid motion; dimensional analysis and similarity; thermophysics of fluids; incompressible fluids and viscosity. Applications of fluids to engineering include aerodynamics, propulsion systems, open-channel flow, and piping systems. Prerequisite: EGR 231, EGR 271 and MAT 122

### **EGR 352 - Heat Transfer (1)**

Principles of heat transfer, emphasizing physical understanding, modelling, and solutions to real-world problems. Use of mathematical and numerical models of conduction, radiation, and convection to understand and analyze the flow of heat involved in natural and engineered systems. Students will design, fabricate, and test a device that transfers thermal energy from one system to another. Prerequisite: EGR 346 & MAT 236

### **EGR 361 - Signals and Systems Analysis (1)**

Linear systems and signal analysis are fundamental to engineering. Examples including signal transmission, signal processing, and the design of feedback and control systems. Topics covered include discrete and continuous linear time-invariant systems, Fourier analysis, Laplace and Z transforms, modulation, sampling, feedback and control. Prerequisite: EGR 311

### **EGR 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **EGR 385 - Engineering Design Project (1)**

Students work on a design project in a small group to formulate an engineering solution to a real-world problem. Specific projects will be chosen in an area of the student's interest with prior consultation with the instructor. Includes a comprehensive written report and oral presentation.

Prerequisites: EGR 231, EGR 271, EGR 311, and one additional EGR 300-level course, Senior standing or permission of instructor.

### **EGR 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **EGR 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **EGR 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **EGR 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

## **English and Creative Writing**

### **ENG 102-1 - Topic: Life of Bees: an Interdisciplinary Perspective (FYS) (1)**

The Life of Bees: an Interdisciplinary Perspective

This course will introduce students to bees and beekeeping through the academic lenses of film studies, food studies, and ecology. Bees are responsible for pollinating roughly 1/3 of human foods, and the rise of Colony Collapse Disorder (CCD) has raised awareness about their essential importance to the present-day food economy. The class will consider the ways that bees, and this crisis, have been represented in literature and film, will investigate the causes of this crisis, and will propose collective action toward conservation. The course will include field trips, guest speakers, and a collaboratively cooked meal, in addition to assigned written work. MOUTON

(FYS)

### **ENG 105- 1 - Topic: Can We Be Kind to Strangers? (FYS) (1)**

Can we be kind to Strangers? This deceptively simple question implies an equally simple answer: Yes, of course we can--and we should. Religious texts, folklore, and philosophy from around the world and from different time periods all encourage us to show kindness to strangers. But we seldom need stories that exhort us to do what we are already doing; thus the stories also remind and encourage us to be kind to strangers, even when we might rather pass by. Thus the question--can we be kind to strangers--gives rise not to a simple answer but to challenging secondary questions. First, Is it in fact possible to be kind to strangers? Is there a biological basis for helping others? Is kindness to strangers altruistic or self-interested reciprocity? Next, in today's global, internet-connected world, what do we mean by stranger? Finally, should we be kind to strangers? what are the consequences and implications for the recipient and for the giver? The course will begin with a foundation in the religious and philosophical foundation for kindness to strangers and will then be organized around different responses: religious, scientific, and social; individual, societal, and global. Students will be expected to enroll in an online learning community and will receive ¼ additional adjunct course credit for their participation during the fall semester. REED

(FYS)

### **ENG 111 - Topics in Literature, Film, Cultural Studies (W) (1)**

Writing seminar for first-year students, an intensive engagement with a topic in literature, film, or cultural studies. STAFF

(Writing Requirement)

### **ENG 111-2 - Topic: The Racial Imaginary (W) (1)**

Race is a social construct--an idea we imagine--but it's an imagined idea so powerful it shapes our histories, our social systems, and our daily lives.

Using Claudia Rankine and Beth Loffreda's anthology *The Racial Imaginary* as a critical text, this course will examine the role of race in the life of the mind, with particular attention to the consequences of American racial conceptions in today's literary, political, and interpersonal spheres. What happens when, as one author writes, our imaginations are "riddled with the stories racism built"? When "the voices least sanctioned to speak come from the bodies most on display"? Or when an author is silent because "I'm afraid of what I might say about race, afraid of examining what I think and feel about race"? We'll read a variety of texts--including James Baldwin's memoirs, Rachel Kaadzi Ghansah's criticism, and Eula Biss's lyric investigations--in an attempt to address such questions, and to learn how to better write about race and ethnicity ourselves. Students can expect to pay significant attention to the research, drafting, and revision processes in this writing-intensive class. Because this is a writing course, significant course time will be spent on the writing process, with a focus on revision. Not open to students who have previously completed the writing course (W)

requirement and/or ENG 111 . RUBENSTEIN

(Writing Requirement)

### **ENG 111-3 - Topic: Beats, Dylan and the American Dream (W) (1)**

In the 1950s, a period of American prosperity and social contentment and conformity, the "Beats" rejected traditional American values. Writers such as Jack Kerouac, Allen Ginsberg, and William Burroughs sought out a new version of the American Dream. In the early 1960s, Bob Dylan followed in their footsteps and went on to become one of the most radical, influential voices of the 20th century. This class will explore the work of the Beats and Dylan through aesthetic, historical, political and cultural lenses as a way to explore our own sense of American values. Do these artists have anything to say to Americans in the 21st century? What is the American dream now? We will focus on critical reading and writing skills as we try to formulate our own responses to these important questions. FREEMAN

(Writing Requirement)

### **ENG 111-3 - Topic: Crossing Borders (W) (1)**

This course will examine literature about crossing borders--cultural as well as national. The course will focus particularly on the experiences of Indian and Arab women crossing borders as immigrants, using historical, social, political, and cultural points of view. Readings will include short stories and novels by and about women as well as non-fiction accounts of women's lives (work, health and water, marriage and children, religion, education). Emphasis on critical reading, writing and revision. Some attention paid to writing style as well. Not open to students who have completed their writing course (W) requirement. REED

(Writing Requirement)

### **ENG 111-4 - Topic: Be Transformed: Fairy Tale Transformations, Cultural Critique, and the Creative Process (W) (1)**

Fairy tales have ignited the imagination of children and salon readers, storytellers and political activists, authors and film-makers. They have provoked vigorous critical arguments: they have been dismissed as trite little (girl) stories or escapist fantasies, viewed as illuminating the imperatives of desire, or as windows into the history of childhood and the family, or as emancipatory dreams, or as creative powerhouses. Typically ending with a happy resolution, they are nonetheless full of danger and violence. Case in point: their role in Shakespeare's tragedy Othello, the focal text of this First-Year Writing course, which reworks the familiar "Beauty and the Beast" tale, contains echoes from "Bluebeard," and fragments from tales featuring slaves and cannibals, an Egyptian witch, a maid from Barbary, and a conniving devil. Othello itself has been re-worked in a variety of media and we will explore the narrative pleasures and cultural critique afforded by two of these transformations: Bulgarian film-maker Ivan Mladenov's 2005 documentary Othello, shot in the prison of Varna, Bulgaria, with a cast of the inmates, and the award-winning 1997 play Harlem Duet, by African-Canadian feminist playwright Djanet Sears. Written assignments, including a paper involving library research, will challenge your creativity and hone your analytical and critical reading skills. Plan on daily writing, reflection on the writing process, and thoughtful, transformational revision. Not open to students who have previously completed a First-Year Writing Course. STAVREVA

(Writing Requirement)

### **ENG 111-4 - Topic: The Magic of Experimental Women Film Directors (W) (1)**

Women filmmakers experiment in dazzling ways in the free space of independent cinema. We'll learn about a few highly influential ones and develop skills for writing about their work. Julie Dash, an African-American filmmaker, directed an award-winning short film, Illusions (1982) reflecting on race/gender issues in 40s Hollywood, and, later, Daughters of the Dust, which in 1991 was the first full-length film by an African American woman director. Maya Deren, leader of the New York avant-garde film culture at midcentury, theorized about film and created astonishing short films such as: "At Land" (1944), "Meshes of the Afternoon" (1943) and "A Study in Choreography for the Camera" (1945). Patricia Rozema delighted and inspired viewers and filmmakers with her fantastical, quirky flight of fancy in I've Heard the Mermaids Singing (1987), voted one of the best Canadian films of all time. Throughout the course, students will draft and redraft writings, from in-class writing to film reviews to essays and research-informed critical projects. Students will learn how to search for film and cultural scholarship, using sophisticated library resources. Challenging writing assignments will help develop critical thinking and critical writing skills. Not open to students who have completed their writing course (W) requirement. HANKINS

(Writing Requirement)

### **ENG 111-5 - Topic: Be Transformed: Fairy Tale Transformations, Cultural Critique, and the Creative Process (W) (1)**

Fairy tales have ignited the imagination of children and salon readers, storytellers and political activists, authors and film-makers. They have provoked vigorous critical arguments: they have been dismissed as trite little (girl) stories or escapist fantasies, viewed as illuminating the imperatives of desire, or as windows into the history of childhood and the family, or as emancipatory dreams, or as creative powerhouses. Typically ending with a happy resolution, they are nonetheless full of danger and violence. Case in point: their role in Shakespeare's tragedy Othello, the focal text of this First-Year Writing course, which reworks the familiar "Beauty and the Beast" tale, contains echoes from "Bluebeard," and fragments from tales featuring slaves and cannibals, an Egyptian witch, a maid from Barbary, and a conniving devil. Othello itself has been re-worked in a variety of media and we will explore the narrative pleasures and cultural critique afforded by two of these transformations: Bulgarian film-maker Ivan Mladenov's 2005 documentary Othello, shot in the prison of Varna, Bulgaria, with a cast of the inmates, and the award-winning 1997 play Harlem Duet, by African-Canadian feminist playwright Djanet Sears. Written assignments, including a paper involving library research, will challenge your creativity and hone your analytical and critical reading skills. Plan on daily writing, reflection on the writing process, and thoughtful, transformational revision. Not open to students who have previously completed a First-Year Writing Course. STAVREVA

(Writing Requirement)

### **ENG 111-5 - Topic: Beats, Dylan and the American Dream (W) (1)**



In the 1950s, a period of American prosperity and social contentment and conformity, the "Beats" rejected traditional American values. Writers such as Jack Kerouac, Allen Ginsberg, and William Burroughs sought out a new version of the American Dream. In the early 1960s, Bob Dylan followed in their footsteps and went on to become one of the most radical, influential voices of the 20th century. This class will explore the work of the Beats and Dylan through aesthetic, historical, political and cultural lenses as a way to explore our own sense of American values. Do these artists have anything to say to Americans in the 21st century? What is the American dream now? We will focus on critical reading and writing skills as we try to formulate our own responses to these important questions. FREEMAN  
(Writing Requirement)

### **ENG 201 - Introduction to Literary Studies (1)**

Introduces students to methods of reading, analyzing, and interpreting literature. Focus on understanding conventions and technical aspects of a literary work and on introduction to multiple genres of literature. Students do close reading and are introduced to additional methods of critical inquiry involving literature. Shows students how to apply critical and literary vocabulary, and to develop writing and research skills.  
(Humanities)

### **ENG 202 - Introduction to Film Studies (1)**

An introduction to film as an art form, cultural practice, and institution. The class focuses on questions of film form and style (narrative, editing, sound, framing, mise-en-scène) and introduces students to concepts in film history and theory (e.g. national cinemas, periods and movements, institution, authorship, spectatorship, ideology, style, genre). Students develop a basic critical vocabulary and research practices for examining film. They apply their skills in oral and written analysis and interpretation to a wide range of films: old and new, local and global, mainstream and less familiar.  
(Humanities)

### **ENG 215 - Introduction to Creative Writing (1)**

Beginning course in creative writing and an introductory course to the English major. Students will explore a myriad of writing techniques and approaches to writing in a variety of genres. Students will write, share work, and offer critiques. The course also includes the study of published authors as models for student writing, as literary historical context for artistic creation, and for the study of creative theory. Students will learn to analyze texts from a writer's perspective, which they will apply to their own writing and to the study of literature in the major.  
(Fine Arts)

### **ENG 220 - Nature Writing (1)**

A creative writing workshop focused on writing concerned with the environment and human relationships with the environment. Our focus will be on non-fiction and the lyric essay. Students will produce a range of creative works and will engage in thoughtful discussion and critique of peers' work. We will also read widely in the tradition of environmental writers, including writers such as Rachel Carson, Aldo Leopold, Sigurd Olson, Annie Dillard, Barry Lopez, Terry Tempest Williams, and Gary Snyder to study techniques used by these writers. Offered in alternate or every third year.  
(Fine Arts)

### **ENG 230 - Caribbean Literature (1)**

This course offers the unique experience of studying Caribbean literature in the Bahamas. We will study a range of genres, including poetry, fiction, and nonfiction, from a range of time periods and Caribbean islands. We will also treat the landscape itself as a text, "reading" the natural world and such sites as ruins and monuments to understand the environment and history of San Salvador island. Course topics may include the creation of national identity through literature, local writers and tourists responding to the environment, and writing from a postcolonial position. Prerequisite: Writing-designated course (W). Offered every third year.  
(Humanities)

### **ENG 240 - Theatre, Architecture, and the Arts in Great Britain (1)**

A study of British literary, heritage, and theatre tourism. While reflecting on the history and present-day state of cultural tourism in the United Kingdom, students visit literary and historical sites in Scotland and England, attend a range of theatre events in Stratford-upon-Avon and London, and visit museums and galleries in London and beyond. Students will read travel writing and plays, keep an academic travel journal, and write several short papers. Team-taught in the United Kingdom. Registration entails additional costs. Prerequisites: Either a Writing-designated course (W), or one of the following: ENG 201, ENG 202, ENG 215. Students must secure permission of instructor and have at least 2.0 GPA and be in good disciplinary and financial standing with the College. The course will be offered next in 2017-18.  
(Humanities)

### **ENG 267 - Multicultural Literature (1)**

Critical analysis of texts by national and international writers of "minority" status, which may include groups marginalized by race, ethnicity, sexual orientation, and socioeconomic class. Consideration of the role of an author's status or identity in literary study. Prerequisite: Writing designated course (W). Alternate years or every third year.  
(Humanities)

### **ENG 274 - Topic: Bluestockings, Revolutionaries, and Cultural Legislators: British Romantic Poetry (1)**

During the Romantic Period in Great Britain (1789 - 1832)-sometimes referred to as the Age of Revolution-intellectuals debated the ideals of the American and French political revolutions, the abolition of the British slave trade, the rights of women, the moral and imaginative education of children, and the role of poetry, aesthetics, and imagination in public discourse. This course offers a study of poetry of the Romantic Era in Great Britain (1789 - 1832) with emphasis on poetry's engagement with the political, social, and aesthetic debates of the day through printed materials of the time. Students will learn about common Romantic-era poetic form and innovations, gain an understanding of social issues of the times, will have the opportunity to do archival research at the University of Iowa's Rare Books Collection, and will do hands-on letterpress printing. Writing course (W)  
(Humanities)

### **ENG 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **ENG 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ENG 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ENG 311 - Grammar and the Politics of English (1)**

An examination of the structures and forms which currently govern standard usage of the English language. Encompasses a broad view of grammar as a subject by a wide-ranging investigation of the history and development of the language. Examines the social and political implications of the development of English as a global language. Prerequisites: sophomore standing and a writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years.

(Humanities)

### **ENG 317 - Advanced Poetry Writing (1)**

Advanced course in writing poetry. Students will study techniques, share work, and offer critiques. The course will also include the study of published poetry. Additional topics will include publication options, manuscript submission procedures, and resources for writers. Prerequisites: ENG 215 and sophomore standing. May be repeated once for credit. Alternate years.

(Fine Arts)

### **ENG 318 - Advanced Fiction Writing (1)**

Advanced course in writing fiction. Students will study techniques, share work, and offer critiques. The course will also include the study of published fiction. Additional topics may include publication options, manuscript submission procedures, and resources for writers. Prerequisites: ENG 215 and sophomore standing. May be repeated once for credit. Alternate years.

(Fine Arts)

### **ENG 319 - Advanced Critical Writing (1)**

Advanced course in academic writing. In discussion, intensive workshops, and individual instruction, students will critically read and evaluate their own work and the work of their peers, as well as professional academic writers. In addition to writing several papers, students will substantially revise and expand the research for a paper they have written for a previous course. Students must bring to class on the first day a short paper they are prepared to further research and revise. The course will also give considerable attention to advanced information literacy and advanced writing style. This course is especially appropriate for students who intend to pursue graduate study or careers with a strong writing component. Prerequisites: junior standing and a writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years.

### **ENG 321 - Studies in Medieval Literature (1)**

Topical concentrations in English and world literature of the Middle Ages, including cultural context. Topics may include: Arthurian romance, Dante, Chaucer, the mystical tradition, chivalry, etc. Prerequisites: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. When offered off campus, the course entails additional prerequisites. Alternate years or every third year. No S/U option.

(Humanities)

### **ENG 322 - Medieval and Renaissance Drama: Shakespeare's Rivals (1)**

A study of the drama of Shakespeare's predecessors, contemporaries, and rivals - such as Cary, Dekker, Ford, Marlowe, Middleton, etc. - within the context of the booming printing and theater trades of early modern England. The course develops editing skills by producing a new teaching edition of an early modern play. Prerequisite: writing designated course (W), or ENG 201, ENG 202, or ENG 215. Offered every third year.

(Humanities)

### **ENG 323 - Shakespeare I: Comedies and Romances (1)**

Analytical, cultural-historical, and performative approaches to Shakespeare. Discussion of selected comedies and romances in their cultural contexts and contemporary performance. Prerequisite: writing designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years.  
(Humanities)

### **ENG 324 - Shakespeare II: Histories and Tragedies (1)**

Critical analysis of Shakespeare's histories and tragedies, with attention paid to their cultural contexts and performative aspects. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years.  
(Humanities)

### **ENG 325 - Renaissance Non-Dramatic Literature (1)**

English and world literature from the period 1500-1660. Topics may include: women writers; literature of geographic exploration; lyric poetry; studies of authors, such as Donne, Elizabeth I, Spenser, or of authors' circles, such as the Sidney family. The course entails a hands-on introduction to book arts, including letterpress printing. Prerequisite: ENG 111, ENG 201, or ENG 215. Alternate years or every third year.  
(Humanities)

### **ENG 326 - Milton (1)**

This course will provide a deep and thorough engagement with John Milton's epic poem, *Paradise Lost*. Attention will be given to the reading practices of early modern and post-modern audiences. Additional materials may include critical articles and other works by John Milton, like *Comus*, *Samson Agonistes*, or selections from his sonnets or prose works. The course will conclude with a consideration of contemporary uses for Milton's epic. Prerequisites: writing-designated course (W), and ENG 201, ENG 202, or ENG 215. Alternate years or every third year.  
(Humanities)

### **ENG 327 - Shakespeare after Shakespeare: Performance and Cultural Criticism (1)**

A study of Shakespeare's plays as blueprints for performance, and of the historically and culturally diverse forms of Shakespearean performances on stage and screen, including Asian, East European, and other renditions. Focus on the relationship of performance to the processes of cultural formation and reflection. Students in the class engage in performance workshops and theatre and/or media production activities enabled by the Stephen Lacey Memorial Shakespeare Fund. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years or every third year.  
(Humanities)

### **ENG 328 - Eighteenth Century English Literature (1)**

Drama, poetry and essays of the period 1660-1798. Discussion of the interplay between culture and literature. Topics may include colonialism; civility, honor and barbarism; politics and poetics of Restoration drama. Authors may include Behn, Wycherly and Rochester, Addison and Steele, Swift, Pope, and Eliza Haywood. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years or every third year.  
(Humanities)

### **ENG 329 - Eighteenth Century Fiction (1)**

Examination of fiction written between 1660-1789. Discussion of the novel and the anti-novel using works such as *Pamela*, *Joseph Andrews*, *The Female Quixote*, *Tristram Shandy*, and *Northanger Abbey*. Some discussion of contemporary creative and critical responses to eighteenth-century fiction. Prerequisite: writing-designated course (W), or ENG 111, ENG 201, ENG 202, or ENG 215. Alternate years or every third year.  
(Humanities)

### **ENG 331 - British Literature of the Romantic (1)**

An examination of intellectual, political, and aesthetic movements of the English Romantic period 1789-1832. May focus on a topic such as gender and Romantic poetics, the Gothic impulse, or slavery and abolition. Prerequisite: writing-designated course (W), or ENG 111, ENG 201, ENG 202, or ENG 215. Alternate years.  
(Humanities)

### **ENG 332 - Queering the Restoration (1)**

This course examines the construction and disruption of gender--especially on the stage--during Restoration England (1660-1714). Readings will include comedy and drama from the period, along with historical and contemporary theories of gender and theatre. Assignments include papers, research projects, and performance. This course also counts towards the GSS major. Prerequisites: W course, ENG 201, ENG 202, or ENG 215, or GSS 171. Offered every third year.  
(Humanities)

### **ENG 333 - Victorian Literature (1)**

Poetry, novels, essays, and plays written between 1837 and 1901. May focus on a topic, such as the Victorian life cycle, political reform movements, or turn-of-the-century decadence. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years.  
(Humanities)

### **ENG 334 - Nineteenth Century English Novel (1)**

A study of one or more forms: the domestic novel, the Gothic novel, the serial novel, the novel of social critique. Authors may include Austen, Shelley, Dickens, Eliot, Trollope, and Wilde. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years.  
(Humanities)

### **ENG 335 - Virginia Woolf (1)**

Novels and essays by the iconic and innovative early twentieth century British writer and critic, Virginia Woolf, including *A Room of One's Own* and other groundbreaking essays, novels such as *Jacob's Room*, *To the Lighthouse*, *Mrs. Dalloway*, *The Waves*, *Orlando*, and *Between the Acts*, and her autobiographical writing "A Sketch of the Past." This course also counts toward the GSS major. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years.  
(Humanities)

### **ENG 336 - Early Twentieth Century Literature (1)**

Texts from the first half of the twentieth century, chosen from British and American writers such as Rebecca West, Ernest Hemingway, Dorothy Richardson, H. D., Virginia Woolf, James Joyce, D. H. Lawrence, Zora Neale Hurston, and others. The course may include films of the early twentieth century, and may focus on a topic such as films and literature of World War I or transatlantic modernist experiments in literature and film. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years.  
(Humanities)

### **ENG 343 - The American Renaissance (1)**

Literary and cultural trends in the early- and mid-nineteenth century with attention to Transcendentalism, Melville's *Moby-Dick*, and philosophical contradictions within the period. Authors in addition to Melville may include Emerson, Thoreau, Fuller, Douglass, and Alcott. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Offered every third year.  
(Humanities)

### **ENG 345 - Late Nineteenth Century American Literature (1)**

Literary and cultural trends of the late-nineteenth century with a focus on the relationship between literary and social movements of the time period. Authors may include Twain, James, Whitman, Stowe, Wells-Barnett, Davis, Gilman, and Riis. Course may include a civic engagement component and/or group research project investigating the role of literature in reform movements. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years.  
(Humanities)

### **ENG 347 - Modern American Literature: Encountering the Wilderness, Literature, and Photo-Writing at the Boundary Waters (Wilderness Field Station, Minnesota) (1)**

At the wilderness that we study. We will reflect upon art and meditation as ways of relating to the wilderness; we will keep journals/portfolios of projects involving writing, literary analysis, meditation, and photography (including a one-photo-a-day project inspired by Jim Brandenburg's works). Open to seasoned campers & neophytes. Registration entails additional costs, estimated \$500. Prerequisite: writing (W) course, ENG 201, ENG 202, or ENG 215.  
(Humanities)

### **ENG 350 - American Nature Writers (1)**

Study of writers who share a concern with human relationships with nature, landscape, and the environment. Authors may include Muir, Leopold, Dillard, Carson, Abbey, and Krakauer. Prerequisite: writing (W) course, ENG 201, ENG 202, or ENG 215. Alternate years.  
(Humanities)

### **ENG 351 - Studies in African-American Literature (1)**

Study of African-American Literature and/or film. Topics may include African-American women writers and directors and the slave narrative. This course also counts towards the GSS major. Prerequisite: writing (W) course, ENG 201, ENG 202, or ENG 215. Alternate years or every third year.  
(Humanities)

### **ENG 361 - Modern Poetry (1)**

Study of experimental poetic trends in the first half of the twentieth century. Poets may include Eliot, Stevens, Williams, Stein, Loy, Millay, Hughes, and H.D. Prerequisite: writing (W) course, ENG 201, ENG 202, or ENG 215. Offered every third year.  
(Humanities)

### **ENG 363 - Contemporary Fiction (1)**

Intensive look at recent and experimental developments in fiction as represented by writers such as Sherman Alexie, Leslie Marmon Silko, Maxine Hong Kingston, Don DeLillo, and Tim O'Brien. Prerequisite: writing (W) course, ENG 201, ENG 202, or ENG 215. Offered every third year. (Humanities)

### **ENG 364 - Contemporary Poetry (1)**

Study of poets whose work has come to prominence since 1950 and an overview of contemporary poetic trends in America. Poets may include Lowell, Ginsberg, Ashbery, Rich, Plath, Olds, and Graham. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Offered every third year. (Humanities)

### **ENG 365 - Comparative Literature and Cinema (1)**

Investigating some of the multi-faceted connections between literature and film, this course may focus on a topic such as the investigation of transatlantic avant-garde film and the "little magazines" or film societies and literary coteries of the early twentieth century. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years. (Humanities)

### **ENG 370 - AIDS Literature, Film, and Social Theory (1)**

Study of the historical emergence and consequences of HIV/AIDS through memoirs, novels, plays, documentary and feature films, and essays. In evaluating the way literature shapes our understanding of HIV and AIDS, we will explore pertinent issues of race, gender, nationality, and sexual identity. May include service learning component with required field trips. This course also counts towards the GSS major. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Offered in alternate years or every third year. (Humanities)

### **ENG 371 - Literary Theory (1)**

Survey of literary theories with emphasis on the second half of the twentieth century through the present. Theories considered may include Narrative Theory, Feminist theories, Reader-Response Theory, New Historicism, Postmodernism, and Cultural Studies as well as newer approaches. Recommended for students who may be interested in pursuing graduate studies in English. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years. (Humanities)

### **ENG 372 - Film and Film Studies (1)**

The study of films as artistic and cultural texts. The focus may be on the study of an individual director, Hitchcock, or a broader topic, such as Women Directors, or a particular period in film history, such as Avant Garde Films of the 1920's and 1930's. See Topics Courses for expanded current course description. (This is not a film production course.) Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. Alternate years or every third year. (Humanities)

### **ENG 374-7 - Advanced Topic: Medical Fictions: Patient-Doctor Dynamics in Fiction and Film (1)**

Writers and filmmakers--even cartoonists--bring their art and insight to the medical moment, illuminating doctor/patient connections and misconceptions, writing about empathy and abandonment, highly-charged moments of illness, dying, childbirth, shell-shock, and other health experiences. Engaging with these powerful and moving texts invites students to examine and deepen their concepts of the relationships between health providers and others. The course will include a field trip to the University of Iowa hospital to witness Project Art and visits from speakers, as well as a service project. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. HANKINS (Humanities)

### **ENG 380 - Internship (1)**

Diverse internship options may include writing and editing in the commercial world, such as working for a newspaper, a magazine, a publishing house, or another communications medium. See Additional Academic Opportunities, All-College Independent Study Courses 280/380. Prerequisite: writing-designated course (W), or ENG 201, ENG 202, or ENG 215. (CR)

### **ENG 382-3 - Advanced Topic: Distinguished Visiting Screenwriter: Creating Characters (1)**

Great films rely on great characters. In this screenwriting workshop, students will study and explore techniques for creating their own dynamic, character-driven films with special attention on using the tools of visual storytelling to create cinematic shorts with memorable characters. Using a series of writing exercises as well as in-class readings with actors, students will create and shape their characters from the ground up and then place them into narratives that help define and, most importantly, reveal who their characters are. Genre will be a secondary consideration as character takes center stage to create compelling scripts that are honest, emotional, and even personal. Students will not only write their own screenplays but

they also will be expected provide thoughtful and constructive feedback on all other students' work throughout the development process of the workshop's scripts. Class participation, creative collaboration, and critical thinking about other students' work is essential to success in this workshop. Students will create a 12-15 page screenplay that displays strong character development, with additional focus on act/scene structure and visual storytelling film language.  
(Fine Arts)

### **ENG 383-6 - Advanced Topic: Distinguished Visiting Writer in Live Literature: The Personal is Political (1)**

Sharing personal stories is a vital part of creating social change, but for creative writers, trying to send a message or teach a lesson can drain a story of its value as art and/or entertainment. The emerging nonfiction genre of "live lit"-short memoirs written for performance-is an excellent medium for exploring the personal and the political in creative work. How can we broach political subjects without coming across as excessively preachy or wonky? How can we draw broader social points out of our personal stories, without seeming "whiny" or narcissistic? What's the difference between writing for the page and for a live audience? Through workshoping, class discussion, field trips, and performance practice, we'll move toward balancing the persuasive power of a political speech with the delight of well-crafted essay. Prerequisite: writing designated course (W), or ENG 201, ENG 202, or ENG 215.  
(Fine Arts)

### **ENG 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.  
(CR)

### **ENG 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ENG 411 - Senior Seminar (1)**

Advanced, theoretically informed engagement with literary studies, broadly defined, including reflection on what the English major brings to intellectual and creative life beyond the undergraduate years. See Topics Courses for current topics and course descriptions. Prerequisites: English major and senior standing.  
(Humanities)

### **ENG 412 - Senior Project in Creative Writing (1)**

This course serves as the second half of the capstone experience for students completing the English major's creative writing concentration. Students will work independently on a creative writing project started in previous workshops, meet independently with the instructor to discuss their progress and work on successive drafts, and meet with other students for an intensive workshop of projects. Students will also work with the instructor to create, complete, and discuss a reading list relevant to their project. The goal is to produce work for publication and/or public performance. The Senior Project Workshop will be conducted as a combination of workshop with other course members, independent study, and one-on-one mentoring. The block will also include professional training in the submission and publication process as well as graduate school and careers in writing.

### **ENG 413 - Senior Project in Critical Writing (1)**

This course serves as the second half of the capstone experience for students completing the English major's concentrations in Literary Studies and in Film and Literary Studies. Students will work independently to develop a project proposed in ENG 411 into a theoretically informed research thesis of substantial length. The goal is to produce work for public presentation or for publication in an undergraduate journal or comparable venue. The course will also include professional training in the processes of conference and publication submission and review. The Senior Project Workshop will be conducted as a combination of workshop with other course members, independent study, and one-on-one mentoring.

### **ENG 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ENG 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ENG 510 - Introduction to Book Arts (1/4)**

The course will introduce participants to the field of book arts, including page design, letterpress, typesetting, printing, and book construction through demonstrations and hands-on experience. Sessions may also include field trips to libraries and museums, fine presses, and/or Book Studies Programs. To earn credit, students must complete four sessions and all homework, including a culminating project. A complete schedule of workshops and fieldtrips will be distributed at an informational session to be held at the beginning of the academic year. Prerequisite: permission of instructor.  
(CR)

### **ENG 715 - Literature in Action: Editing (1/4)**

Serving in one of the supervisory positions for the English Department literary magazine Open Field (or similar magazine): Editor, Assistant Editor, Web Editor, Art/Design Editor. Participation must be supervised by a member of the Department and the work carried out within a single semester. May be repeated for credit.  
(Fine Arts) (CR)

## **Environmental Studies**

### **ENV 101 - Environmental Perspectives (1)**

An interdisciplinary examination of the interplay between the artistic, social and scientific components of modern environmental issues. Not open to juniors or seniors.

### **ENV 201 - Environmental Biology (1)**

Investigation of the fundamental biological principles underlying how humans and other living things interact with an environment increasingly altered by human activities. These principles will be applied to understanding and seeking practical solutions to modern environmental problems. Prerequisite: ENV 101 or any science credit. Alternate years.  
(Laboratory Science)

### **ENV 202 - Introduction to Environmental Chemistry (1)**

This course introduces some of the fundamental concepts used for understanding the chemical processes occurring in the environment. Topics covered will include: chemical bonding and structure; cycling of chemical substances and elements in the atmosphere, oceans, and soils; the chemistry of atmospheric and water pollution; chemical analysis of environmental samples. This course cannot be used to satisfy course requirements in the chemistry major. Offered as an off-campus course in alternate years which incurs additional costs. Prerequisite: ENV 101 or any science credit.  
(Laboratory Science)

### **ENV 280 - Internship in Environmental Studies (1)**

Working with a business, government agency, or other institution under the direction of the organization's leaders and a faculty supervisor. See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **ENV 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ENV 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ENV 301 - Hydrogeology (1)**

The study of hydrogeology, landscape evolution, and earth surface processes. Particular attention will be paid to the dynamics of groundwater and surfacewater. Includes field- and laboratory-based group research projects on various local and regional topics, and reading of primary literature. Co-listed with GEO 320. Alternate years. Prerequisite: ENV 201 or ENV 202.  
(Laboratory Science)

### **ENV 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380. Prerequisites: junior standing; at least one of the three required 300-level courses; approval by the participating institution, the faculty supervisor, and the Environmental Studies advisor.  
(CR)

### **ENV 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ENV 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ENV 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **ENV 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **ENV 912 - Tanzania: Studies in Human Evolution and Ecology (1)**

see ACM Programs.

### **ENV 942 - Costa Rica: Tropical Field Research (1)**

see ACM Programs.

## **Ethnic Studies**

### **EST 123 - Introduction to Ethnic Studies (1)**

Examination of the meaning of ethnicity, race, and minority status. The relationship between race, class, and ethnicity. The psychology of prejudice. Structural discrimination. The evolution of ethnic interactions. The course is interdisciplinary in method and cross-cultural in perspective. Not open to seniors without permission of instructor.

### **EST 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **EST 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **EST 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **EST 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **EST 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **EST 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **EST 485 - Readings/Research in Ethnic Studies (1)**

Student designed individual research in selected areas. Focus to be a research paper or project whose subject matter has been approved by both the professor directing the paper/project and by the Ethnic Studies Program Committee. May be taken under the direction of any professor currently offering courses listed as part of the Ethnic Studies major. Prerequisites: a declared major in Ethnic Studies, EST 123, at least six additional courses that may be counted towards the Ethnic Studies major, permission of the instructor, and approval by the Ethnic Studies Program Committee. No S/U option.

### **EST 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **EST 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

## **Gender, Sexuality, and Women's Studies**

### **GSS 171 - Gender, Power, and Identity (1)**



This interdisciplinary core course in the program analyzes how notions of race, gender, sexuality, class, nation, physical ability and other aspects of social location materially influence people's lives. To conduct our analysis, we will consider various strands of feminism, divergent positions among queer theorists, and arguments drawn from other identity based fields (e.g ethnic studies, American studies, postcolonial studies) in order to survey and compare several perspectives on gender, race, sexuality, race and class. Placing gender and sexuality at the center of analysis, we will address some of the basic concepts in Gender, Sexualities and Women's Studies. We will also explore questions regarding incorporating other social categories such as race, ethnicity, class and nationality. Throughout the course we will complete readings, watch films, and engage in exercises to explore the past, present and potential future understandings about gender and sexuality, paying close attention to political, cultural, and economic contexts.

### **GSS 270 - Social Justice Perspectives and Practices (1)**

Intersectional and interdisciplinary exploration of feminist and other social justice perspectives and practices relevant to understanding and responding to social oppression. Course discussions focus on power, privilege, oppression, and implications for social change. Activities and assignments focus on using social justice remedies or 'tools,' such as individual resistance, policy, advocacy, and social action, and collective struggle to propose solutions to contemporary problems. Areas studied might include critical race theory and critical race feminism, queer theory, women of color feminisms, transnational/global feminisms, disability studies, liberation theory, postcolonial theory, feminist 'locational' theories. Specific topics vary by instructor. Prerequisite: GSS 171, or EST 123, or SOC 101, or SOC 102 , or ANT 101, or PSY 276, or POL 143.

### **GSS 271 - Feminist Theories (1)**

Examination of a variety of theories about feminism, the nature of gender, and its relationship to biological sex, and women's and men's roles in society. Theoretical perspectives that posit reasons for the existence of privilege, oppression and various "isms" (e.g., sexism, heterosexism, and racism) will be examined as well as goals and strategies for social change associated with these diverse perspectives. Prerequisite: GSS 171 or any course approved for Women's Studies major credit.

### **GSS 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **GSS 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **GSS 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **GSS 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **GSS 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **GSS 393 - Global Feminisms (1)**

The course will examine the meaning of "feminism" in a global context and study the ways in which local movements, national and international agencies have addressed the issue of gender oppression in the world. The course will also examine some of the issues that have become part of the global agenda for women over the last few decades. Particular attention will be given to women's movements worldwide and the multiple ways in which women have organized to improve their lives. Prerequisite: GSS 171, GSS 270, GSS 271, or PHI 352. Alternate years.  
(Social Science)

### **GSS 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **GSS 487 - Project (1)**

A substantial culminating capstone for the Gender, Sexualities, and Women's Studies major, typically completed in the senior year. Consists of an original research/criticism paper, a creative writing/performance/exhibition, or a practicum, and a public presentation and defense. Pre-requisites include GSS 171, GSS 270, at least four other courses to be counted toward the major, and the approval of the project proposal by the two advisors and instructor.

### **GSS 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

## **GSS 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

## **GSS 510 - Gender, Sexuality, and Women's Studies in Action (1/4)**

What is the relevance of Gender, Sexuality, and Women's Studies? How does it intersect with other academic disciplines? How does it prepare you for life after Cornell? In this adjunct course, Cornell professors and alumni will share the relevance of women's, gender, and sexuality studies to their own lives. In monthly gatherings, we will discuss how this interdisciplinary field intersects with and influences other disciplinary perspectives and how it prepares us for the future. Professors will share the ways that studying women, gender, and/or sexuality has shaped their own teaching, research, and activism. Alumni will also talk about the effect of GSS studies on their own lives and career paths.

(CR)

## **Geology**

### **GEO 101 - Earth Science (1)**

Phenomena and processes within, upon, and above the earth. The exploration of a dynamic planet with an immense history. Includes discussion of modern and ancient climate, geologic time, and the processes shaping the planet today. Not open to students previously enrolled in GEO 111 or GEO 114. Alternate years.

(Science)

### **GEO 105 - Marine Science (1)**

An introduction to the global marine environment, with emphasis on sea floor dynamics, submarine topography and sediments, the nature and circulation of oceanic waters, coastal processes, marine biologic productivity, coral reefs and pollution, and exploitation of the oceans by humans. One field trip to the Shedd Aquarium, Chicago.

(Science)

### **GEO 111 - Dynamic Earth (1)**

The earth as a dynamic body whose materials and structures are continually being modified by the interactions of the geological processes; considers interrelationships between geological processes and human activity. Fieldtrips as weather permits. Not open to student previously enrolled in GEO 101.

(Laboratory Science)

### **GEO 114 - Investigations in Iowa Geology (1)**

Earthquakes, volcanoes, oceans, meteorite impacts, glaciers... in Iowa? Geology may not be the first thing you think of when you think about Iowa, but the geology of Iowa records valuable information about the geological formation and evolution of the Earth. Geologists are not only historians; however, but also detectives who use rocks, minerals, fossils, landforms, and Earth processes to piece together the physical history of the Earth. Because geology is active, the geology of Iowa is still changing today. This field- and laboratory-based course is designed to show how you can use your own observations and experimental data to interpret the changing Earth around you. Not open to students previously enrolled in GEO 111.

(Laboratory Science)

### **GEO 122 - Climate Change (1)**

An examination of changes in Earth's climate with particular focus on the last 20,000 years. Topics include greenhouse and icehouse worlds, climate reconstruction techniques, and factors driving climate change. Offered as a writing-designated course (W) in alternate years.

(Laboratory Science)

### **GEO 123 - Go West: An Introduction to Field Geology (1)**

A largely field-based course centered in the Black Hills of South Dakota, the canyonlands of southern Utah, or the volcanoes of Hawaii. The fundamentals of geology will be introduced in the classroom and amplified by hands-on learning during a two-week trip west. Students will learn skills necessary for introductory geological mapping and field-based studies and will gain first-hand knowledge about large-scale tectonic features such as volcanoes and mountains, as well as surficial processes, such as river erosion. Entails additional costs.

(Laboratory Science)

### **GEO 130 - Historical Geology (1)**

Origin and evolution of the solid earth, atmosphere, and ocean; the origin of life; and the succession of life through geologic time.

(Laboratory Science)

### **GEO 212 - Mineralogy (1)**

An introduction to the physical, chemical, and structural properties of minerals. Will explore the significance of minerals across many fields, and will provide a hands-on approach, including growing minerals and using mineral hand-samples, crystal form models, atomic structure models, and polarizing microscopes to uncover even the subtlest properties of minerals. Prerequisite: any 100-level GEO course.  
(Laboratory Science)

### **GEO 214 - Tectonics (1)**

An examination of plate tectonic processes on Earth. Topics will include the building of mountains, rifting of ocean basins, the structure of Earth's interior, paleomagnetism, and the driving forces behind plate movement. Also includes introduction to structural geology and field mapping. Includes several field trips. Prerequisite: GEO 130.  
(Laboratory Science)

### **GEO 217 - Invertebrate Paleontology (1)**

Principles of paleontology, paleoecology, and taxonomy, with an introduction to major fossil invertebrate groups. Prerequisite: GEO 130 or BIO 141 and BIO 142.  
(Laboratory Science)

### **GEO 255 - Modern/Ancient Carb Systems (in the Bahamas) (1)**

Field course on the geologic and biologic processes occurring in a modern carbonate system and the responses preserved in Pleistocene limestones. Days spent in the field investigating modern shallow marine environments (coral reefs, tidal flats, lagoons, beaches, dunes) and ancient analogs preserved in rock outcrops, caves, and sink-holes. Follow-up lectures and laboratory sessions in the evening. Snorkeling experience desirable but not essential; scuba diving opportunities will be made available. Taught at the Gerace Research Center, San Salvador Island, Bahamas. Entails additional costs. Prerequisite: any 100-level GEO course.  
(Laboratory Science)

### **GEO 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **GEO 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **GEO 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **GEO 306 - Igneous Petrology (1)**

Tectonic origins and geochemical evolution of magmas provide insight into the huge variety of igneous rocks. Hand sample and microscopic study of igneous rocks helps to determine compositions, structures and regional settings of the rocks. Prerequisite: GEO 212. Alternate years.  
(Laboratory Science)

### **GEO 307 - Metamorphic Petrology (1)**

Tectonic origins, mineralogical and textural evolution of rocks that undergo changes in pressure, temperature and fluid-availability. Hand sample and microscopic study will provide insight into the processes and controlling influences of metamorphic change. Prerequisite: GEO 212.  
(Laboratory Science)

### **GEO 317 - Paleoecology (1)**

Applications of principles of paleoecology to an understanding of the ecology of marine invertebrates that existed in eastern Iowa during Paleozoic time. Includes group research projects on various aspects of paleoecology using field- and laboratory-based studies of fossiliferous outcrops in eastern Iowa. Prerequisite: GEO 217. Alternate years.  
(Laboratory Science)

### **GEO 320 - Hydrogeology (1)**

The study of hydrogeology, landscape evolution, and earth surface processes. Particular attention will be paid to the dynamics of groundwater and surfacewater. Includes field- and laboratory-based group research projects on various local and regional topics, and reading of primary literature. Co-listed with ENV 301. Prerequisite: Any 200-level GEO course. Alternate years.  
(Laboratory Science)

### **GEO 322 - Climates of the Ice Age (1)**

An in-depth examination of Quaternary climates around the globe and the methods used to reconstruct them. Topics include ice cores, marine sediments, speleothems, pollen, tree rings, and geochemical techniques. Involves hands-on paleoclimate projects including computer simulations. Will also entail significant reading of the primary literature. Prerequisite: GEO 122 or GEO 320. Alternate years.  
(Laboratory Science)

### **GEO 324 - Sedimentology and Stratigraphy (1)**

Sedimentary processes and the stratigraphic record. Basics of particle transport, facies models, and methods of stratigraphic analysis. Hand specimen and microscopic study of sedimentary rocks. Prerequisite: GEO 130. Alternate years.  
(Laboratory Science)

### **GEO 325 - The Origin of Mountains (1)**

Mountains are formed by a variety of geological processes. This class will explore methods of mountain building, focusing on a specific mountain belt. We will read and discuss current literature on a range of related topics, including tectonistatigraphy, petrology, structural geology, thermobarometry, and geochronology. Multi-day field trip is possible. Prerequisite: GEO 306 or GEO 307. Alternate years.  
(Laboratory Science)

### **GEO 329 - The Geology of New Zealand (in New Zealand) (1)**

Application of geologic principles in the field to explore the geology of a New Zealand: stratigraphy, structure, geomorphology, and tectonic history. Interpretation of geologic maps. Offered on the South Island of New Zealand. Registration entails additional costs. Junior and senior Geology majors only. Prerequisites: Permission of instructor and either GEO 306 or GEO 307. Alternate years.

### **GEO 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **GEO 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **GEO 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **GEO 485 - Geological Problems**

Serves as the capstone for the geology major. Research on a subject or problem selected by the student and approved by the instructor, involving library and field or laboratory study. Comprehensive term paper and oral report. May be repeated once for credit.

### **GEO 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **GEO 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **GEO 511 - Extended Research in Geology (1/4)**

Two semesters to be taken in conjunction with capstone project, GEO 485. Extended reading during the first semester and writing of a capstone research proposal. Extended writing with construction and delivery of a public presentation of the capstone research results during the second semester. Prerequisites: Registration in GEO 485 during the end of the first semester or beginning of second semester. Permission of Instructor.

## **History**

### **HIS 101 - Europe: 800-1300 (1)**

This course surveys medieval Europe from the decline of the Carolingian era, tracing the rise of the papacy, as well as new ideas about spirituality and law. Topics covered include the Crusades, the culture of knights, universities, and the developing inquisition. Not open to seniors without permission of the instructor.  
(Humanities)

### **HIS 102 - Europe: 1300-1700 (1)**

This course examines the impact of the Black Death upon European society and the development of the Renaissance and Reformation. What does it mean to have a Renaissance? How did the Black Death change European society? What effects did these new intellectual and religious ideas have on politics, society, and culture? How did ordinary people shape the Reformation? We will consider these questions as we explore art, literature, and documents from the period. Not open to seniors without permission of the instructor.  
(Humanities)

### **HIS 104 - Modern Europe and Its Critics (1)**

Social and intellectual development of Europe since 1700. Not open to seniors without permission of the instructor. No S/U option.  
(Humanities)

### **HIS 120 - Introductory Seminar: Women in America (1600-1870 (FYS) (1)**

This seminar is an introduction to women's history from colonial times through the Civil War. We will examine a number of different topics such as the status of women in different colonies, the effect of the American Revolution, slave women, the 1848 Seneca Falls Convention, and the evolution of the women's rights movement. Readings will include biographies, slave narratives, and some of the most important historical scholarship. One of the goals of the course is the improvement of writing skills, thus there will be frequent writing assignments.  
(FYS)

### **HIS 141 - Latin American History (1)**

Introduction to Latin American studies, with special attention to major themes and selected countries. Not open to seniors without permission of the instructor. Same course as LAS 141. No S/U option.  
(Humanities)

### **HIS 153 - Origins of the American Nation (1)**

From colonial origins through Reconstruction, with emphasis on the formation of local, sectional, and national communities. Not open to seniors without permission of the instructor. No S/U option.  
(Humanities)

### **HIS 154 - Making of Modern America (1)**

The late nineteenth century ushered in a plethora of momentous changes in the economic, political, and social spheres of American life that heralded the birth of modern society. Massive upheavals brought about by revolutions in American industry, transportation systems, immigration patterns, and urbanization fundamentally altered the very structure of American society. This course examines the underlying changes that gave rise to a new era in American history epitomized by the "mass" character of modern life by focusing on mass production, mass consumption, mass culture, and mass movements (including civil rights and women's rights) from the mid-nineteenth century through the late 1960s. Not open to seniors without permission of the instructor. No S/U option.  
(Humanities)

### **HIS 210 - Warfare and Society in Modern Times (1)**

Changes in military conflict from the eighteenth century to the present. Interaction of warfare and social values. No S/U option.  
(Humanities)

### **HIS 220 - History of Spain, 700-1600 (1)**

This course examines Spanish history from the Arab invasion through its "Golden Age." The two major themes that this course explores are 1) the shift from a frontier society to a colonial empire, and 2) the multi-religious, multi-cultural nature of Iberian society during this period. The course examines the dynamics of violence, competition, and coexistence, between Muslims, Christians, and Jews, as well as within Muslim and Christian society. How did those dynamics, and the ideology of Reconquest, shape Spanish society and Spain's early colonial efforts? How has this period of Spanish history been remembered and interpreted?  
(Humanities)

### **HIS 221 - Trials and Transitions of the Renaissance (1)**

This course explores the political, social, and religious changes of the Renaissance period (roughly, 1400-1600) through immersive simulations in which students adopt the personas of historical individuals. Topics may include Florentine politics, the Reformation Parliament called by Henry VIII, and others.  
(Humanities)

### **HIS 240 - Public Memory and Public History (1)**

The American public has an insatiable appetite for representations of the nation's past, as demonstrated by the popularity of historic sites, museums, historical re-enactments, televised historical documentaries and Hollywood films. Yet, despite its growing audience, the discipline of history seems to be in a state of crisis. Political debates have engendered a public furor over how American history is being taught and remembered. This course will

examine the often contentious relationship between popular presentations of the past for the general public and professional historians' scholarly interpretations and provide an introduction to the growing field of museum studies. The course may include the "hands-on" experience of a mini-internship at local historical societies, libraries, and museums and the opportunity for students to create their own online exhibits on different historical topics. Prerequisite: Sophomore standing or permission of the Instructor. Alternate years. No S/U option.  
(Humanities)

### **HIS 241 - Slavery and the Environment in a Comparative Context (in the Bahamas) (1)**

This course offers a rare opportunity to explore historic slave plantation ruins on a remote island in the Bahamas as a means of interpreting the history of slavery. We will examine the attempt by British Loyalists, who left the American colonies after the Revolutionary War, to establish cotton production in the Bahamas, using slave labor, and how the environmental context led to significant differences in the evolving relationships between enslaved people and plantation owners. A significant portion of the course (two weeks) will be conducted at the Gerace Research Centre, College of the Bahamas on the island of San Salvador; this will enable us to explore the ruins of several slave plantations, including the Farquharson Plantation. The journal Charles Farquharson kept from 1831-1832, which includes a slave uprising, is the only one in existence documenting a Bahamian slave plantation, and will be a central course text. Prerequisite: Permission of instructor. This course is cross-listed with Environmental Studies.  
(Humanities)

### **HIS 251 - Federal Indian Policy (1)**

Relations between Native American nations and the federal government. Central theme is the clash of cultures in the westward movement. Treaties, removal, land allotment, federal recognition in the twentieth century, and a review of the current scene. Offered subject to availability of faculty. No S/U option.  
(Humanities)

### **HIS 252 - Baseball: The American Game (1)**

In many interesting ways the history of baseball from the mid-1800's onward reflects the history of the United States. This seminar will examine the origins of the game, its evolution to a professional sport and then big business, legal aspects of the game, integration, and unionization. Students will write several papers and do a little research project about baseball and American society. Find out how Cornelius McGillicuddy, Jackie Robinson, Alexander Cartwright, Curt Flood, John Montgomery Ward, Alta Weiss, and Andy Messersmith - ballplayers all - reveal something important about American history and society. The relationship of the national game to changes in the country such as industrialization, urbanization, labor unionism, and integration. No S/U option.  
(Humanities)

### **HIS 255 - American Lives (1)**

American history through autobiographies, memoirs, and biographies. No S/U option.  
(Humanities)

### **HIS 257 - Topic: Reel History: The Cold War and American Film (1)**

This course will explore Cold War culture through Hollywood films, examining how Americans' fears of communism and nuclear warfare were expressed in a diverse range of genres from film noir to documentary realism to science fiction (such as Them! in which giant mutating ants threaten to take over Los Angeles). Despite its production of anti-communist films, Hollywood came under attack from the House Committee on Un-American Activities. As a result, many people working in the film industry were denied their civil liberties and black-listed. We will also examine how Cold War ideologies about "race" and gender also played out onscreen and off. In addition to film screenings, there will be a large amount of course readings.  
(Humanities)

### **HIS 258 - Topic: India's Road to Independence (1)**

In 1945, India and Britain faced a critical juncture: the departure of British colonial government, leaving India to self-government. But what would that independence mean? Who would take power? How could the needs of India's different population groups - Hindus, Muslims, Sikhs, Untouchables - be balanced? Could India even be governed as one nation? This course explores the critical moment of India's independence and partition through readings and intensive simulation. Readings will include background on India's history and the writings of notable Indian leaders, including M. Gandhi, J. Nehru, and M. A. Jinnah. Students have the opportunity to develop a better solution than the historical outcome... if they can. The course may include other scenarios as well, if time permits.  
(Humanities)

### **HIS 261 - Topic: Hamilton (1)**

How historically accurate is Lin-Manuel Miranda's award-winning Broadway musical Hamilton? What is the significance of Miranda's interpretation of history? Immigrant, military hero, politician, Secretary of the Treasury, and dueling victim, Alexander Hamilton embodies the difficult birth of the United States. If Miranda is correct, Hamilton also reveals important truths about us today. Readings include Ron Chernow's Alexander Hamilton (which is the basis of the musical), the lyrics of the play, and articles by historians who offer other perspectives of this pivotal figure.  
(Humanities)

### **HIS 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **HIS 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **HIS 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **HIS 304 - Europe: the Sixteenth and Seventeenth Centuries (1)**

This course focuses on the tumultuous period of the Reformation and religious wars, examining the connections between religion and politics, changing social and family structures, and new spiritual ideas and fears. Readings include primary sources and microhistory to explore the beliefs and experiences of ordinary Europeans in this period. Prerequisite: any 100 level History course or permission of instructor. Alternate years. (Humanities)

### **HIS 315 - International Relations in Modern West (1)**

International Relations in the Modern Western World A history of diplomacy from the end of World War I to the present. Prerequisite: junior standing or permission of instructor. No S/U option. (Humanities)

### **HIS 316 - Enlightenment and the French Revolution (1)**

Intellectual, social, and political history of Europe, 1715-1815. Emphasis on France. Prerequisite: junior standing or permission of instructor. Offered subject to availability of faculty. No S/U option. (Humanities)

### **HIS 317 - The Crusades (1)**

This course traces the crusading experience of western Europeans in the Middle Ages: the origins and development of the idea of crusade in the 1090s, followed by the failure of later Crusades and the change in the concept over time. More broadly, the class considers the relationship between violence and religion, and the legacy of the Crusades, including the consequences of the crusading phenomenon in Europe and how it has affected interactions between Muslims and Christians. Prerequisite: junior standing or permission of instructor. (Humanities)

### **HIS 318 - Growth of Industrial Society (1)**

Economic history of Western Europe from the beginnings of the Industrial Revolution to the end of World War II. Change from a traditional to an industrial society, effect of industrialization on the working class, and impact of the Great Depression. Prerequisites: junior standing or permission of instructor; ECB 101 is recommended. Offered subject to availability of faculty. No S/U option. (Humanities)

### **HIS 319 - Women in Medieval Europe (1)**

This course examines how law, family structures, religious beliefs, and work shaped the experiences of European women between c. 500-1400. As we read various works for, by, and about medieval women, among the major questions we'll examine are: What ideas about women's bodies, minds, and social roles shaped women's lives? What factors allowed women more or less agency to choose their own life's course? In addition to reading medieval sources, in the course we will read, evaluate, and critique modern scholarship on medieval women. This course also counts toward the GSS major. Prerequisite: junior standing or permission of instructor. (Humanities)

### **HIS 320 - Persecution, Tolerance, and Minorities in Medieval Europe (1)**

This course explores the marginalization and persecution of minority groups in medieval Europe, as well as the coexistence of minority and majority. Why was persecution a common reaction to minority groups, set apart by their religion, sexuality, or health, in medieval Europe? Can coexistence be described as tolerance? What laws and customs shaped interactions between majority and minorities? This course examines these questions through reading primary sources from the European Middle Ages in translation and diverse theoretical and methodological perspectives on the study of marginalized groups. This course also counts towards the GSS major. Prerequisite: junior standing or permission of instructor. (Humanities)

### **HIS 321 - Muscovite and Imperial Russia (1)**

Topics in the history of Russia from its beginnings to 1917. Prerequisite: junior standing or permission of instructor. Offered every third year. No S/U option.

(Humanities)

### **HIS 322 - Revolutionary and Soviet Russia (1)**

The 1917 Revolution and the resulting Soviet state to the beginning of World War II. Prerequisite: junior standing or permission of instructor. Offered every third year. No S/U option.

(Humanities)

### **HIS 323 - Russia from 1941 (1)**

From the beginning of World War II to the present. Particular attention to successive attempts to reinterpret the revolutionary legacy in the light of contemporary problems. Prerequisite: junior standing or permission of instructor. Offered every third year. No S/U option.

(Humanities)

### **HIS 324 - Modern Germany (1)**

German history between 1740 and 1945, with an emphasis on important events, such as the rise of Prussia, the Napoleonic Period, Bismarck and German unification, Hitler and the Third Reich. Prerequisite: HIS 104 or junior standing. Offered subject to availability of faculty. No S/U option.

(Humanities)

### **HIS 326 - Women in Renaissance and Reformation Europe (1)**

This course examines the experiences of women during the tumultuous Renaissance and Reformation period (c. 1400-1700). Questions to be examined include: How did women participate in these movements, and how were they affected by them? What ideas about women were debated in this period? How did women's experiences change during this period? In addition to reading historical documents, in the course we will read, evaluate, and critique modern scholarship on early modern women. HERDER Prerequisite: Junior standing or permission of instructor.

(Humanities)

### **HIS 350 - Colonial America (1)**

The English colonies in North America to 1760. Prerequisite: junior standing or permission of instructor. No S/U option.

(Humanities)

### **HIS 351 - The Age of Revolution in America (1)**

The causes of the American Revolution, the writing and the implementation of the Constitution, and the War of 1812. Prerequisite: junior standing or permission of instructor. No S/U option.

(Humanities)

### **HIS 352 - The United States in the Middle Period (1)**

America from 1815 to 1850, with emphasis on the growth and consequences of political and economic stability. Prerequisite: junior standing or permission of instructor. No S/U option.

(Humanities)

### **HIS 353 - Civil War and Reconstruction (1)**

America at war with itself. The causes of the war and the attempt to rebuild the Union. Prerequisite: junior standing or permission of instructor. No S/U option.

(Humanities)

### **HIS 354 - U.S. Social History Since 1940 (1)**

World War II as a turning point in civil rights, gender issues, class, foreign policy, and the consumer revolution. This course also counts towards the GSS major. Prerequisite: junior standing or permission of instructor. No S/U option.

(Humanities)

### **HIS 356 - African-Americans in U.S. History (1)**

Selected topics on the nature of the Black experience in America. Prerequisite: junior standing or permission of instructor. Alternate years. No S/U option.

(Humanities)

### **HIS 358 - Work and Leisure in Modern America (1)**



Examines the relationship between Americans' working lives and their pursuit of leisure in the transformation from the Industrial to the Post-Industrial Era (1880s-1980s). Topics will include women's changing role in the workforce; the impact of popular and mass culture (such as film, radio, and television) upon the separation of work and leisure; the decline of public culture and the rise of privatized forms of leisure; the disappearance of industrial jobs in the emerging service-information economy; and the rise of corporate cultures, such as Disney, in the global context of the current economic revolution. We will explore how the forces of urbanization, immigration, production and consumption, technological innovation, and class stratification, contributed to the bifurcation of culture into "high" and "low" as well as engendering the evolution of popular to commercial to mass culture. This course also counts towards the GSS major. Prerequisite: junior standing or permission of instructor. Offered every third year. No S/U option.  
(Humanities)

### **HIS 364 - Documentary Imagination-Depression (1)**

Explores the relationship between historical truth and fiction through an examination of documentaries made of Depression Era America. Through our examination of different types of documentary expression (e.g., photography, ethnography, literature, film, and oral history), students will learn to interpret these texts as historical sources. Students may experience first-hand the stages of documentary production by conducting oral history interviews, which they videotape and edit into a final documentary narrative. Prerequisite: junior standing or permission of instructor. Offered every third year. No S/U option.  
(Humanities)

### **HIS 369 - Chicago: The Transformation of America's Second City, 1880-1940 (1)**

This course offers students the opportunity to explore the history of Chicago and complete an original research project based upon a first-hand exploration of the city and the holdings of the Newberry Library. The seminar will examine the crucial years in Chicago's evolution from regional center to metropolis by looking at the related themes of urbanization, industrialization, and immigration. All of these developments are richly documented in the Newberry's collections, which include archival materials pertaining to urban planning and architecture, immigrant life, African American communities, industrial growth and labor relations, political development, and diverse civic and commercial cultures. Drawing upon the Library's collections, students will discover how the spatial formation of contemporary Chicago still reflects its historical origins, and will have the opportunity to use these rare materials in crafting their individual research papers. Prerequisite: junior standing or permission of instructor. Offered every third year. No S/U option.  
(Humanities)

### **HIS 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **HIS 380 - Internship in Public History (1)**

Application of historical concepts to an agency in the public sector (a museum, historical society, historic preservation program), a government agency, or a corporation with a history program. See Additional Academic Opportunities, All-College Independent Study Courses 280/380. Prerequisites: junior standing and three courses in American history, at least two of which must be at the 300 level. No S/U option.

### **HIS 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **HIS 394 - History and Theory (1)**

Survey of the influences in the field of history of Marxism, feminist theories, and theories of race and ethnicity. Prerequisites: junior standing and three courses in History, at least two of which must be at the 300-level. Offered subject to availability of faculty. No S/U option.  
(Humanities)

### **HIS 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **HIS 485 - Research Tutorial (1)**

A project, taken after any 300-level History course, enabling a student to engage in additional research on a theme related to that course. Prerequisites: a 300-level History course and permission of instructor. No S/U option.  
(Humanities)

### **HIS 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **HIS 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

## **Interdepartmental/Interdisciplinary Courses**

### **INT 121 - Communication in Education (1)**

A focus on communication demands for educators provides the context for this course in which students will give prepared speeches and group presentations intended for such audiences as parents, community members, educational colleagues, and other education stakeholders. Scenarios for class activities will feature issues of cross-cultural communication, nonverbal behavior, and virtual communication media appropriate for school-home community information sharing. This course is intended for students interested in pursuing a major in education. Credit/No Credit (CR)

### **INT 160-1 - Cell-Phones, Coffee, and Cars: Critiquing Consumption (FYS) (1)**

Life, as we know it, is dependent on the everyday consumption of goods and services; however, our consumptive practices can also have negative social and environmental consequences. This first-year seminar combines sociological and geological perspectives to provide a unique viewpoint on the cause and effects of our consumer society. Sociology allows us to examine the changing meaning, practices, and social implications of consumption, while geology provides scientific insight into the physical processes and environmental implications of consumption. Our goal is to examine the interdisciplinary, complex nature of sustainability through reflection, experiential learning and collaborative problem-solving. DAVIS and WALSH  
(FYS)

### **INT 164 - The Immigrant Experience in American Culture (FYS) (1)**

How have immigrants from different countries and at different times experienced and played a role in American culture? In this course students will practice and develop their language and analytical skills by reading and discussing works of fiction and non fiction about the immigrant experience, writing essays, and giving oral presentations. Students also will learn about the college's expectations for academic work, and become familiar with and use college resources such as the Writing and Research Studios.  
(FYS)

### **INT 165 - Global Issues (1)**

This course provides an overview of topical issues, such as economics, business, technology, and politics in the United States and the world. Students will develop their oral and written English skills through readings, writing assignments, oral presentations. The course also involves regular visits to another course at the college to provide students with additional practice in listening and speaking. In completing course assignments students will gain practice using college resources such as the Writing and Research Studios.  
(FYS)

### **INT 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **INT 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **INT 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **INT 310 - Theoretical Foundations in Elementary School Mathematics (1)**

This course is designed for Elementary Education majors. This course will focus on understanding elementary mathematical concepts and processes taught in the elementary (K-8) curriculum. Noted are the fundamental mathematical concepts most applicable for teaching at the elementary level: number and operations, algebra, geometry, data analysis and probability. Prerequisites: EDU 205, EDU 215, EDU 230, EDU 240, admission to the Teacher Education Program, and junior standing.

### **INT 320 - Interdisciplinary Theory and Practice for the Elementary Classroom (1)**

Current K-6 methods in the teaching of visual and performance art and health and wellness. Special emphasis upon pedagogical strategies and theories needed to be an interdisciplinary classroom teacher. Required of all Education majors seeking K-6 certification. Prerequisites: EDU 205, EDU 215, EDU 230, EDU 240, admission to the Teacher Education Program, and junior standing.

### **INT 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **INT 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **INT 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **INT 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **INT 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **INT 501 - Academic Writing (1/4)**

This course aims to provide students with deliberate practice in academic writing and critical thinking. Instruction will consist of a mix of large group class meetings, smaller group workshops, and individual conferences targeted in aiding students in refining their writing process and generating strategies for improvement. This course will encompass four blocks. Prerequisite: completion of a "W" listed course.

### **INT 502 - Academic Performance Tutorial (1/4)**

College success depends on the ability to organize one's time efficiently and utilize critical thinking skills. This course will teach students the techniques needed to read a textbook carefully, take notes that will be useful, and approach college in a proactive and organized way. This course will encompass three blocks. Prerequisite: Permission of the instructor.

### **INT 503 - Math for the Natural Sciences (1/4)**

This course emphasizes the importance of quantitative literacy in the natural sciences. The course will provide instruction and practice in applying mathematical skills to solving problems in the natural sciences. Students will meet with the instructor in three 1 - 1.5 hour sessions each of the first three weeks of three consecutive blocks in a semester, and will have approximately an hour of work for each hour of class meetings, for a total of 25 hours. The course will focus on the following primary topic areas: algebra and its application to solving problems, logarithms, unit conversions, scientific notation, calculator use and graphs. Each block will include individual meetings with students to assess their current level and diagnose issues. Offered every first semester.

## **International Relations**

### **IRE 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **IRE 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **IRE 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **IRE 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **IRE 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **IRE 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **IRE 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **IRE 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **IRE 988 - Semester in Ireland: Peace and Conflict Studies (1)**

see School for International Training.

### **IRE 988 - Semester in Switzerland: International Studies (1)**

see School for International Training.

## **Kinesiology**

### **KIN 101 - Lifetime Physical Fitness and Activities (1)**

Instruction in the major components of fitness, the physiological basis of fitness, evaluation of personal fitness, and individual fitness programming. Instruction and participation in lifetime physical activities selected from badminton, bicycling, bowling, camping and canoeing, golf, hiking, racquetball, sailing, skiing, tennis, volleyball, and weight training.

### **KIN 111 - Foundations of Kinesiology (1)**

This course presents a broad look at kinesiology as an academic discipline and profession. Students will investigate various sub-disciplines, research the historical development of both kinesiology and sport in major time periods from the ancient world to today, consider related philosophical and educational concerns, and discuss current issues in research and literature. Not open to seniors without permission of instructor.

### **KIN 205 - Coaching Endorsement or Authorization (1)**

Structure and function of the human body during physical activity. Knowledge and understanding of human growth and development of children in relation to physical activity. Athletic conditioning, theory of coaching interscholastic athletics, professional ethics, and legal responsibility. Combined with KIN 237, this course meets the requirement for an Iowa Coaching Endorsement for Education majors and Coaching Authorization for all other students.

### **KIN 206 - Exercise Psychology (1)**

Examination of theory, current research, and applications of psychological processes and behaviors related to physical activity. Topics include psychological and emotional effects of exercise, motivation for fitness, factors in exercise avoidance, adoption, and adherence, exercise addiction, and cognitive and behavioral change strategies for exercise compliance, and consideration of gender, ethnicity, and special needs populations. Not open to seniors without permission of instructor.  
(Social Science)

### **KIN 207 - Systems Physiology (1)**

Fundamental study of the complementarity of human anatomical structure and physiological function of the integumentary, endocrine, nervous, muscular, cardiovascular, respiratory, and renal systems. Special emphasis on development of a mechanistic understanding of organ system function and integrated physiological function across systems to promote homeostatic regulation in the human body. Inclusion of experiential learning through laboratory activities. Prerequisite: sophomore standing. Cross Listed as BIO 207.  
(Laboratory Science)

### **KIN 212 - Sports and American Society (1)**

Exploration of the impact of amateur and professional sports on the American way of life. Sample topics include women in sports, sports and the African-American community, sports as big business, and the relationship between sport and education. Readings reflecting a variety of viewpoints about the role of sports in American society will be selected from contemporary literature.  
(Social Science)

### **KIN 215 - Psychology of Sport (1)**

Theory and issues related to psychological aspects of competitive sport contexts. Personality and sport, attentional control, anxiety and performance, motivation and attributions, aggression in sport, and team cohesion. Intervention strategies for performance enhancement.  
(Social Science)

### **KIN 220 - Ancient Greek Athletics (1)**

Study of the origins and functions of competitive athletics in ancient Greece. Traditional athletic events are studied in detail and special emphasis is placed on the festivals at Olympia, Delphi, Nemea, Isthmia, and Athens. Reflections on athletics' connection to ancient Greek culture, arts, and religion. Alternate years.

### **KIN 237 - Care and Prevention of Athletic Injuries (1)**

Prevention and treatment of athletic injuries, taping experience, understanding the principles of athletic training, and first aid and emergency care.

### **KIN 255 - Topic: History of Women's Sports (1)**

This course will examine the historical development of women's sports from ancient to current times noting significant events. Attention will be paid to how cultural views of proper conduct of men and women influenced and continue to influence the growth of opportunities for women.

### **KIN 280 - Internship in Kinesiology (1)**

Observation of and practical experience in the specialized activities of a fitness and wellness program, an athletic or recreation management business or department, or other professional sport and exercise setting. Students work under the direction and guidance of a practicing professional with supervision by a faculty member. Internships are scheduled for two consecutive terms unless otherwise approved by the faculty supervisor.

### **KIN 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **KIN 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **KIN 308 - Human Biomechanics (1)**

This course is an advanced study of mechanical principles, both kinetic and kinematic, as they apply to human motion. Specific topics include various classes of anatomic levers and pulleys, torque, eccentric force, mechanical advantage, laws of motion as they apply to human movement, mechanical loading, linear and angular motion, effects of friction, equilibrium, the forces of gravity and reaction forces. Inclusion of experiential learning through laboratory activities. Prerequisites: KIN 207, KIN 309.

### **KIN 309 - Anatomy of Human Movement (1)**

Study of the anatomical and neuromuscular factors associated with human movement. Includes connective tissue and skeletal system physiology, identification of major musculoskeletal structures (bones and bony landmarks, origins and insertions for major muscles, muscle groups, major tendonous/ligamentous structures), joint movements and muscle actions. Practical application of anatomical and neuromuscular principles to human movement via a kinematic analysis of a motor skill. Inclusion of experiential learning through laboratory activities Prerequisite: KIN 207 or Instructor permission.

### **KIN 310 - Nutrition for Health and Performance (1)**

In-depth study of the role of nutrition in health promotion and disease prevention. Topics include ingestional physiology, regulation of food intake and energy balance, biological roles of macro- and micro-nutrients, nutrient dietary reference intake values and food sources, eating disorders and the Female Athlete Triad, as well as nutritional strategies for athletes to promote exercise performance. Includes nutritional analyses. Prerequisite: KIN 207. Alternate years.

### **KIN 311 - Methods for Individual Sports (1)**

Designed for those interested in teaching individual sports and lifetime activities in public schools and community recreational settings. Course emphasis on analysis of skills, and the development of teaching and assessment materials including use of computer technology. Use of class discussions, presentations, small group and peer teaching. Prerequisite: Kinesiology major or minor and junior standing. Alternate years.

### **KIN 315 - Physiology of Exercise (1)**

In-depth study of the human responses to exercise and exercise training, including: substrate metabolism and energy production during exercise, cardiorespiratory and neuromuscular function during acute exercise, cardiovascular and neuromuscular adaptations to exercise training, endocrine responses to physical activity, and thermoregulation. Introduction to current scientific methodologies and the development of practical skills through experiential laboratory activities. Prerequisite: KIN 207 or Instructor permission.

### **KIN 318 - Methods for Team and Dual Sports (1)**

Designed for those interested in teaching team and dual sports in public schools and recreational settings. Course emphasis on analysis of skills, and the development of teaching and assessment materials including use of computer technology. Use of class discussions, presentations, small group and peer teaching. Prerequisites: Kinesiology major or minor and junior standing or permission of the instructor. Alternate years.

### **KIN 324 - Elementary Physical Education Methods (1)**

Methods for teaching physical education to elementary school pupils. Rhythms, low and high organization games, elementary gymnastics, classroom management, and audiovisual and computer applications. Emphasis on movement education and curriculum development. Includes fifteen hours of observation-practicum in the schools. Prerequisites: pursuing education certification or major and permission of instructor. Alternate years.

### **KIN 327 - Adaptive Physical Education (1)**

Philosophy and applications of physical education for persons with special needs and disabilities. Emphasis on designing appropriate programs and activities and teaching methodology. Includes fifteen hours of observation-practicum in the schools. Prerequisites: Pursuing education certification or major, and permission of department chair. Offered upon request.

### **KIN 331 - Physical Education Methods for Secondary School (1)**

Preparation for the teaching of physical education activities in the secondary grades. Current trends in curriculum, planning for lessons, selection of appropriate teaching and evaluation methods, classroom management, and audiovisual and computer applications. Includes fifteen hours of observation-practicum in the schools. Prerequisite: pursuing secondary certification or permission of instructor. Alternate years.

### **KIN 334 - Motor Learning (1)**

Process and factors related to the acquisition and performance of motor skills. General learning theories applied to motor learning and performance. Other topics include physical abilities and capabilities, psychological and mental factors influencing performance, training procedures, environmental and social factors. Prerequisite: KIN 206.

### **KIN 338 - Advanced Athletic Training (1)**

Advanced care and prevention of athletic injuries. The course deals with specific physical conditions, disorders, and injuries common to the athletic setting. Preventative measures, evaluation, treatment, and rehabilitation of athletic injuries are covered in depth. Prerequisites: KIN 237 and junior standing.

### **KIN 362 - Exercise Testing and Prescription (Capstone) (1)**

Practical application of physiological principles related to the assessment of functional physical capacity and the prescription of exercise for healthy adult populations, based upon American College of Sports Medicine (ACSM) health-related fitness recommendations. Development of practical skills and professionalism for performing fitness assessments, including: the pre-participation screening; heart rate and blood pressure at rest and during exercise; and assessments of body composition, cardiorespiratory fitness, muscular strength, and flexibility. Includes interpretation of health-related fitness assessment results and the prescription of appropriate fitness programs for improving musculoskeletal strength and flexibility, cardiorespiratory fitness, and weight loss. Prerequisites: KIN 111, KIN 309, and KIN 315.

### **KIN 380 - Internship in Kinesiology (1)**

Observation of and practical experience in the specialized activities of a fitness and wellness program, an athletic or recreation management business or department, or other professional sport and exercise setting. Students work under the direction and guidance of a practicing professional with supervision by a faculty member. Internships are scheduled for two consecutive terms unless otherwise approved by the faculty supervisor.

### **KIN 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **KIN 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **KIN 485 - Advanced Studies (1/2-1)**

An independent project. Prerequisite: permission of instructor.

### **KIN 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **KIN 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **KIN 511 - Athletic Training Practicum (1/4)**

Provides supervised practical experience in the prevention, evaluation, treatment, management, and rehabilitation of athletic injuries and illness. Participation in the administrative aspects of an athletic training program. Prerequisites: Must be accepted into the Cornell College Athletic Training Program. Application for admission to the program includes a written form, interview with the Head Athletic Trainer, and two letters of reference from Cornell instructors and/or coaches.

(CR)

## Latin American Studies

### **LAS 141 - Introduction to Latin American Studies (1)**

A survey of Latin American history from the colonial era to the present. Special attention will be given to major themes and selected countries. Not open to juniors and seniors except with permission of instructor. Same course as HIS 141 when taught by a faculty member approved by the Department of History.

(Humanities)

### **LAS 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **LAS 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **LAS 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **LAS 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **LAS 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **LAS 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **LAS 487 - Senior Thesis (1)**

Individual research on an interdisciplinary topic approved and supervised by two faculty members from two different departments participating in the Latin American Studies program. Prerequisite: senior standing as a Latin American Studies major.

### **LAS 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **LAS 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **LAS 941 - Costa Rica: Studies in Latin American Culture and Society (1)**

see ACM Programs.

### **LAS 942 - Costa Rica: Tropical Field Research (1)**

see ACM Programs.

## Mathematics

### **MAT 105 - First Year Seminar in Mathematics (1)**

This first year seminar is designed for students who would like to experience the creativity and beauty of significant mathematical ideas through the process of mathematical discovery. While the ideas investigated will not require significant previous mathematical experience (three years of high

school mathematics is sufficient) the first-year seminar demands mathematical curiosity, enthusiasm and flexibility, as the ideas to be investigated will be challenging. Students interested in majoring in mathematics are encouraged to take this seminar even though it does not count for the major because they will be exposed to ideas that are not covered elsewhere in the curriculum. See Topics Courses. Prerequisite: Three years of high school mathematics.

### **MAT 105-1 - Counting to Infinity in 18 days (FYS) (1)**

The idea of infinity has fascinated humanity since the beginning of time. Small children want to know what the largest number is and are amazed that there is no largest number. In popular culture, Buzz Lightyear in "Toy Story" is associated with the phrase "To infinity ... and beyond!" But what is beyond infinity? For that matter, what exactly is infinity? This course will investigate the mathematics of infinity as well as mathematics and mathematicians in the context of their time and culture. Students will have the opportunity to creatively investigate aspects of infinity that interest them. The mathematics covered is accessible, exciting and mathematically significant. Students will be expected to enroll in an online learning community and will receive  $\frac{1}{4}$  additional adjunct course credit for their participation during the fall semester. FREEMAN (FYS)

### **MAT 110 - Great Mathematical Ideas (1)**

Investigation of a variety of great mathematical discoveries past and present. The ideas investigated will not require significant previous mathematical background, but will require the student to actively participate in the process of mathematical discovery. Only by doing mathematics can the creativity, beauty, and mathematical importance of these great ideas be understood. Specific content varies with the course instructor, but may include subjects such as knot theory, origami, game theory, the nature of infinity, or chaos and fractals. Recommended for non-mathematics majors. This course is not open to students who have completed MAT 120 or higher. This course does not count toward a mathematics major or minor. Prerequisite: Two years of high school algebra. (Mathematics)

### **MAT 119 - Calculus of a Single Variable Part I (1)**

Differential and integral calculus of functions of one real variable and analytic geometry of two variables. This course emphasizes review of precalculus material and is appropriate for students who feel they need more time in order to succeed in calculus. This course is not open to students who have completed MAT 121 or higher. Prerequisite: three and one-half years of high school mathematics, including trigonometry. Unless a departmental exception is granted, this course combination must be taken in consecutive terms.

### **MAT 120 - Calculus of a Single Variable Part II (1)**

Differential and integral calculus of functions of one real variable and analytic geometry of two variables. This course emphasizes review of precalculus material and is appropriate for students who feel they need more time in order to succeed in calculus. This course is not open to students who have completed MAT 121 or higher. Prerequisite: three and one-half years of high school mathematics, including trigonometry. Unless a departmental exception is granted, this course combination must be taken in consecutive terms. (Mathematics)

### **MAT 121 - Calculus of a Single Variable (1)**

Differential and integral calculus of functions of one real variable and analytic geometry of two variables. This course is not open to students who have completed MAT 120. Prerequisites: three and one-half years of high school mathematics, including trigonometry, in addition to an ACT Math score of 25 or above, or SAT Math score of 570 or above, or permission of instructor. (Mathematics)

### **MAT 122 - Calculus of Several Variables (1)**

Continuation of Calculus of a Single Variable, including further techniques of integration, vectors, and differential and integral calculus of several variables. Prerequisite: MAT 120 or MAT 121. (Mathematics)

### **MAT 155 - Topic: Math History (1)**

This course explores the origins of mathematical ideas, the questions they were created to answer, their historical context, and the personalities behind them. This course assumes at least two years of high school algebra and/or geometry. Although it contains mathematics, it is not a traditional mathematics course, and it will not emphasize the acquisition of new mathematical content. Students will engage in critical reading, discussion, and several different types of academic writing. Because this is a writing course, significant course time will be spent on the writing process, with a focus on revision. Not open to students who have completed their writing course (W) requirement. (Writing Requirement)

### **MAT 221 - Linear Algebra (1)**

Existence and uniqueness of solutions to linear systems. Linear transformations, linear independence, spanning vectors, vector spaces, basis and dimension, orthogonality, eigenvalues and eigenvectors. Students will be required to prepare written and oral presentations on a linear algebra application approved by the instructor. Prerequisites: MAT 120, MAT 121, and CSC 151 or MAT 122.



### **MAT 231 - Fundamentals of Geometries (1)**

An examination of the assumptions inherent in the axiomatic structures of two-dimensional geometry through the parallel postulate and its alternatives. Additional topics may include projective geometries, finite geometries, coordinates and transformations, tilings, and higher-dimensional objects. Prerequisite: MAT 221. Alternate years.

### **MAT 234 - Complex Variables (1)**

Differential and integral calculus of functions of one complex variable. Analytic and harmonic functions, contour integration, Laurent series, residue theory, and conformal mapping. Prerequisite: MAT 122. Alternate years.

### **MAT 236 - Differential Equations (1)**

This course is about how to predict the future. Mathematical modeling with differential equations, initial value problems and their approximate solutions, systems of differential equations, qualitative solutions, stability analysis and an introduction to chaos, and Laplace transforms. Prerequisites: MAT 122 and MAT 221.

### **MAT 255 - Topic: Graph Theory & Networks (1)**

A graph is a collection of points in space (vertices) connected by paths (edges). The concept is simple, yet far-reaching in its flexibility. For example, a vertex could represent a FaceBook subscriber, while an edge between subscribers indicates that they are friends. A graph could represent physical systems as well: A vertex might denote a switch in a computer network, and an edge a connection between switches. This course will cover basic concepts in graph theory: types of graphs, connectivity in graphs, graph coloring, circuits and paths, graph algorithms. Applications will be chosen to address specific student interests. ECB 212 OR CSC 151 OR MAT 120 OR MAT 121.

### **MAT 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **MAT 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **MAT 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **MAT 327 - Modern Algebra I (1)**

Formal systems of algebra (groups, rings, integral domains, and fields) and their relations to other disciplines. Prerequisite: MAT 221. Alternate years.

### **MAT 328 - Modern Algebra II (1)**

Formal systems of algebra (groups, rings, integral domains, and fields) and their relations to other disciplines. Prerequisite: MAT 221. Alternate years.

### **MAT 337 - Analysis I (1)**

Topics from the theory of functions of a real variable. First term will include limits and continuity, differentiation and theories of integration. Second term will extend these results to sequences and series of functions. The second term will include student reading projects and presentations on theory and/or applications related to analysis topics. Prerequisites: MAT 122 and MAT 221. Alternate years.

### **MAT 338 - Analysis II (1)**

Topics from the theory of functions of a real variable. First term will include limits and continuity, differentiation and theories of integration. Second term will extend these results to sequences and series of functions. The second term will include student reading projects and presentations on theory and/or applications related to analysis topics. Prerequisites: MAT 122 and MAT 221. Alternate years.

### **MAT 357 - Applied Mathematics I (1)**

This course offers an introduction to several advanced skills and techniques used in applied mathematics including: development of mathematical models; dimensional analysis; perturbation theory; calculus of variations; discrete/stochastic models; and linear programming. Applications taken from across a broad range of disciplines. Prerequisite: MAT 236.

### **MAT 358 - Applied Mathematics II (1)**

This course explores the mathematics behind phenomena that occur in several dimensions. Topics include partial differential equations including the heat equation, Poisson equation and wave equations; Fourier Series; vector calculus, Sturm-Louiville theory, and numerical methods as appropriate. Applications taken from across a broad range of disciplines. It is not necessary to have taken MAT 357, Applied Mathematics I, prior to this course. Prerequisite: MAT 236.

### **MAT 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **MAT 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **MAT 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **MAT 485 - Senior Capstone Project (1)**

Research on a subject or problem selected by the student and approved by Mathematics and Statistics faculty. Guidance and feedback on the completion of a culminating paper that will serve as a component of the capstone experience for the Mathematics and Statistics major. In addition to consulting with the instructor on the final written project, students will spend class time presenting their progress to classmates, sharing and developing ideas, answering questions, and overcoming difficulties about their research. Prerequisite: MAT 502 Capstone Preparation. No S/U option.

### **MAT 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **MAT 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **MAT 502 - Capstone Preparation (1/4)**

Guidance through the process of choosing a topic for the Senior Capstone Project in Mathematics and Statistics, and writing a proposal for the project that is acceptable to the faculty in the department. Common readings in current literature in mathematics and statistics also will be assigned. This adjunct course must be taken over Terms 1-4. Students will meet with the instructor for approximately 2.5 hours per block. Students will have brief meetings with course instructors and will also work individually on proposals. The total time commitment will not exceed 6 hours per block.

### **MAT 511 - Extended Research in Mathematics (1/4)**

Developing and proving statements in an interesting area of mathematics which are original to the student. Must be taken over four consecutive terms. No more than one course credit of MAT 511 can be earned. Prerequisites: CSC 151, MAT 122, a GPA in the department of 3.0 or higher, and permission of instructor.

### **MAT 701 - Mathematics and Statistics Culture Points (1)**

Completion of 30 mathematics and statistics culture points. Points will be accumulated throughout a student's career at Cornell College. MAT 701 will appear on the transcript following the semester when the total number of completed points is at least 30. Zero course credit is awarded. For a list of how points can be earned, please see <http://www.cornellcollege.edu/mathematics-backup/degree-requirements/culture-points.shtml>

### **MAT 702 - Applied Mathematics Minor Essay (1)**

Completion of a short reflective essay detailing how the applied math minor has complemented other courses at Cornell approved by faculty in Department of Mathematics and Statistics. Prerequisites: Completion of at least 4 course credits towards the Applied Mathematics minor.

## **Statistics**

### **STA 201 - Statistical Methods I (1)**

Elementary study of describing data. Data collection, descriptive statistics, estimation, and hypothesis testing as applied to one- and two-variable problems. Prerequisites: Two years of high school algebra, and a writing designated course (W) (Mathematics)

### **STA 202 - Statistical Methods II (1)**

A continuation of STA 201, Statistical Methods I. This course will explore in more depth several methods of analyzing data. Topics covered include linear regression (simple and multivariate), ANOVA (one- and two-way), and logistic regression (simple and multivariate). Prerequisite: STA 201.

### **STA 230 - Epidemiology (1)**

An introduction to the methods used in the study of health and illness in human populations. In particular, this course will include discussions on the role of epidemiology in public health both in the past and present, the different kinds of epidemiological studies and what conclusions can be made from them, and the process that epidemiologists use in infectious disease and outbreak investigations. The course will also introduce some of the statistical techniques required for epidemiological studies. Prerequisite: STA 201

### **STA 280 - Internship (1)**

### **STA 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **STA 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **STA 347 - Mathematical Statistics I (1)**

Typically the first term covers probability, random variables, sampling distributions and collecting data. The second term covers theory of estimation and hypothesis testing, linear and multiple regression, analysis of variance, and techniques for categorical data. The second term also includes a substantial data analysis project including written and verbal presentations. Prerequisites: MAT 122 and MAT 221. Alternate years.

### **STA 348 - Mathematical Statistics II (1)**

Typically the first term covers probability, random variables, sampling distributions and collecting data. The second term covers theory of estimation and hypothesis testing, linear and multiple regression, analysis of variance, and techniques for categorical data. The second term also includes a substantial data analysis project including written and verbal presentations. Prerequisites: MAT 122 ,MAT 221 and STA 347. Alternate years.

### **STA 380 - Internship (1)**

### **STA 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **STA 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **STA 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **STA 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

## **Medieval and Early Modern Studies**

### **MEM 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **MEM 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **MEM 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **MEM 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **MEM 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **MEM 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **MEM 485 - Senior Project (1)**

Independent, interdisciplinary project, required of all majors during their senior year. Prerequisite: permission of the student's Medieval and Early Modern Studies advisor.

### **MEM 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **MEM 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **MEM 951 - Semester in the Arts of London and Florence (1)**

see ACM Programs.

### **MEM 952 - Semester in Florence (1)**

see ACM Programs.

### **MEM 962 - Newberry Library Program in the Humanities (1)**

when the topic studied is relevant to Medieval and Early Modern Studies, with the approval of the Medieval and Early Modern Studies advisor.

## **Music**

### **MUS 101 - Fundamentals of Music (1)**

Basic music reading skills for all interested students, while learning to listen to and recognize the structural and aesthetic elements of music. Preparation for MUS 110.  
(Fine Arts)

### **MUS 109 - First Year Seminar in Music (FYS) (1)**

The topic of "Opera and Film" has become one of the "hot" areas of scholarship in the past fifteen or so years. Both opera and film use a conglomeration of other constituent arts to create what Richard Wagner called a Gesamtkunstwerk or total artwork. (In fact, many of the first efforts in film were derived from opera and more specifically, Wagner.) My intention with this course is to explore the intersections between opera and film, using theories and practices of both genres, as well as numerous specific examples of the interplay between them.  
(FYS)

### **MUS 110 - Music Theory I (1)**

Fundamentals of music: harmony, melody, rhythm, scales, and forms; with a concentration on the common-practice period, 1600-1900 (with some twentieth century music). Application of these topics to analysis, writing, listening, sight-singing, and an introduction to music literature. Prerequisite: MUS 101, passing music placement test, or permission of instructor.  
(Fine Arts)

### **MUS 115 - Beginning Electronic Music Composition (1)**

An introduction to composing electronic music using Reason software. Course will cover basic synthesis types, sound processing, and MIDI, as well as compositional concepts and techniques associated with traditional electronic music studio. Offered every three years.  
(Fine Arts)

### **MUS 207 - Vocal Diction (1)**

Italian, French, German, and English diction as related to the art song and to choral music. Required of all students whose major performance medium is voice; also required of General Music Education majors. Alternate years.

### **MUS 210 - Music Theory II (1)**

Continuation of MUS 110. Topics include the harmonic progression, triads in inversion, non-chord tones, and an introduction to phrases, periods, and their role in creating musical form. Prerequisite: MUS 110. No S/U option.  
(Fine Arts)

### **MUS 212 - Music Listening and Understanding (1)**

Learning to understand Western art music through historical study and perceptive listening. Does not count toward the Music major or minor.  
(Humanities)

### **MUS 215 - Jazz Improvisation (1)**

Improvisation in American jazz, including daily performing experiences in these styles. Prerequisite: MUS 310.  
(Fine Arts)

### **MUS 217 - Opera (1)**

An introduction to opera as a genre and a study of selected masterpieces. The course will involve both traditional investigations and newer scholarly approaches from areas such as "queer studies" and feminist scholarship. Themes of the course will be those of the operas studied: politics, gender, class, love, death, sexuality, the individual within society, religion, and, of course, the union of music and drama. Ability to read music not required. May be repeated for credit with permission of instructor. Offered subject to availability of faculty.  
(Humanities)

### **MUS 218 - Rock Music: Historical and Cultural Perspectives (1)**

Rock music from its origins in African-American blues to the present. Examination of the music's interaction with ethnicity, racism, capitalism, sexism, and politics. Open to all students. Offered subject to availability of faculty.  
(Humanities)

### **MUS 219 - Revolutionary Music of the Twentieth Century (1)**

Avant-garde music of the twentieth century and the ways it has challenged previously-held musical and aesthetic values. Ives, Satie, Futurism, Dadaism, Duchamp, Varèse, Cage, and beyond. Experimental works and ideas in arts other than music. Open to all students. Offered subject to availability of faculty.  
(Humanities)

### **MUS 220 - Jazz History (1)**

Jazz in America from its roots in Africa and Western Europe to present-day styles and practices. Open to all students. Prerequisite: writing-designated course (W). Offered every third year.  
(Humanities)

### **MUS 263 - Women and Music (1)**

The roles of women in the history of Western music with special emphasis on the music of women composers. Exploration of issues surrounding gender and musical style. In addition to the Music major and minor, this course also counts toward the GSS major. Prerequisite: writing-designated course (W). Ability to read music not required.  
(Humanities)

### **MUS 273 - Topic: Who Owns Music? The Practice and Politics of Musical Borrowing (1)**

Originality: how important is it?? And, what happens when musical composition is not completely original? Call it what you like - borrowing, inspiration, appropriation, parody, quotation, sampling, adaptation, plagiarism - this course will examine the broad concept of musical composition based on pre-existing material. We will consider the many different borrowing techniques that composers have used, the various reasons that composers have had for using borrowed material, and the myriad cultural and historical attitudes toward the practice of borrowing. Our examples will be drawn from several diverse sources - including Western Classical music, contemporary popular music, and jazz. Writing Course (W)  
(Humanities)

### **MUS 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **MUS 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **MUS 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **MUS 302 - Song Literature (1)**

Investigation of the solo repertoire for the voice. Required of all majors in voice performance. Open to others with permission of instructor. Offered upon request. No S/U option.

### **MUS 303 - Service Playing and Arranging (1)**

Selecting music for the church service, the playing of the service, and the study of chanting. Required of all students majoring in performance in organ. Prerequisite: permission of instructor. Offered upon request. No S/U option.

### **MUS 304 - Literature of the Major Instrument (1)**

Study of the repertoire available for the primary instrument. Required of all majors in instrumental performance. Prerequisite: permission of instructor. No S/U option.

### **MUS 305 - Orchestration (1/2)**

Scoring for wind ensemble, orchestra, and chamber groups. Characteristics of modern instruments. Prerequisite: MUS 310. Offered upon request. No S/U option.

### **MUS 306 - Conducting I (1)**

Basic conducting skills for both vocal and instrumental ensembles. Baton technique, musical styles and interpretations, rehearsal techniques, and score reading. Prerequisite: MUS 310. No S/U option.

### **MUS 307 - Piano Pedagogy (1/2)**

Examination and discussion of current ideas and methods of teaching piano, including lectures, observation of individual and class piano lessons, and supervised practice teaching. Required of all piano performance majors. Open to other pianists with the permission of instructor. Prerequisite: sophomore standing. Offered upon request, subject to availability of faculty. No S/U option.

### **MUS 308 - Vocal Pedagogy (1/2)**

Historical and pedagogical development of the art of singing and a study of the physiology of the singing process. Emphasis on teaching techniques and care of the voice. Required of all students majoring in voice. Open to other vocalists with the permission of instructor. Prerequisite: sophomore standing. Alternate years. No S/U option.

### **MUS 310 - Music Theory III (1)**

Continuation of MUS 210. Topics include seventh chords, chord inversion, secondary functions, and an introduction to modulation. Prerequisite: MUS 210. No S/U option.

### **MUS 315 - Jazz Arranging (1)**

Scoring for the jazz ensemble. Study of contemporary practices for writing and arranging in the jazz idiom. Projects include arrangements for the conventional big band as well as for small jazz ensembles. Prerequisite: MUS 343. Offered upon request, subject to availability of faculty. No S/U option.

### **MUS 321 - History of Western Music I (1)**

Chronological development of Western music from Antiquity through the late Renaissance. Emphasis on historical, cultural, aesthetic, and structural examination of musical works; and the development of genres, forms, and performance practices. Prerequisites: writing-designated course (W) and the ability to read music. No S/U option.  
(Humanities)

### **MUS 322 - History of Western Music II (1)**

Chronological development of Western music from the Baroque (seventeenth century) through Beethoven. Emphasis on historical, cultural, aesthetic, and structural examination of musical works; and the development of genres, forms, and performance practices. Prerequisites: MUS 310 and writing

designated course (W). No S/U option.  
(Humanities)

### **MUS 323 - History of Western Music III (1)**

Chronological development of Western music from the Romantics to the present. Emphasis on historical, cultural, aesthetic, and structural examination of musical works; and the development of genres, forms and performance practices. Prerequisites: MUS 310 and writing-designated course (W). No S/U option.  
(Humanities)

### **MUS 331 - Music Education Seminar (1/2)**

Introduction to the music teaching profession, with an emphasis on student evaluation, planning, classroom management, teaching strategies, and audiovisual and computer applications. Twenty-five hours of observation/practicum in music in the schools. Prerequisite: MUS 310. No S/U option.

### **MUS 343 - Music Theory IV (1)**

Continuation of MUS 310, with emphasis on aural skills, structural analysis, and formal designs of music from the common-practice period. Prerequisite: MUS 310. No S/U option.

### **MUS 348 - Counterpoint (1)**

Fundamental contrapuntal principles that occur in polyphonic music. Prerequisite: MUS 343. Offered upon request. No S/U option.

### **MUS 349 - Form and Analysis (1)**

Overview of the standard forms and genres found in the common-practice and twentieth century periods. Study of techniques for uncovering the structure of a specific work. Prerequisite: MUS 343. Offered upon request. No S/U option.

### **MUS 350 - Mozart and Beethoven (1)**

Historical and analytical study of selected works. Relationships, structures, and meanings within the works selected. Prerequisites: writing-designated course (W) and the ability to read music (treble and bass clefs). Offered subject to availability of faculty. No S/U option.  
(Humanities)

### **MUS 352 - The Ring Cycle of Wagner (1)**

Wagner's four-opera epic cycle *Der Ring des Nibelungen*. Viewing of performances of *The Ring*, the work's mythologies, operatic ideals, historic and cultural position, development of leitmotif, interpretations, and philosophical influences and content. Prerequisite: writing-designated course (W). Offered subject to availability of faculty. No S/U option.  
(Humanities)

### **MUS 353 - Wagner and Wagnerism (at the Newberry Library, Chicago) (1)**

An examination of Richard Wagner's *Musikdramen*, essays, theories, sources, and influences, including the phenomenon of Wagnerism. The course will include a study of one of his major works, and students will carry out research at the Library. Prerequisite: writing-designated course (W). Alternate years. No S/U option.  
(Humanities)

### **MUS 370 - Special Topic: Tradition and Innovation (1)**

An interdisciplinary course that explores the relationship between tradition and innovation. The course approaches this question through the study of myth, drama, music/opera, literature, criticism, and essays, from antiquity through the 20th century. Major topics/texts are 1) Interpretations of the Electra myth: *The Libation Bearers* of Aeschylus, the *Electra* of Sophocles, and Richard Strauss' *Elektra*. 2) The role of traditions and historical antecedents in Wagner's "artwork of the future," *Die Meistersinger von Nürnberg*, and his major essay *The Artwork of the Future*. 3) James Joyce's *Portrait of the Artist as a Young Man*, wherein our protagonist fights the suffocation he feels from Catholicism, Irish traditions, and language while trying to become an artist. Each of these topics has strong connections with at least one other topic in the course.

### **MUS 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **MUS 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **MUS 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **MUS 406 - Conducting II: Band (1/2)**

### **MUS 407 - Conducting II: Choral (1/2)**

### **MUS 408 - Conducting II: Orchestral (1/2)**

Continuation of MUS 306. Advanced score analysis, advanced rehearsal and performance techniques. Course requirements include attendance at all rehearsals and performances of the ensemble involved and private instruction in analysis and conducting techniques. Taught by the regular conductors of the College ensembles. Prerequisite: MUS 306. Offered upon request, subject to availability of faculty. No S/U option.

### **MUS 431 - Methods and Materials for Music Education (1)**

Preparation for teaching music in the elementary and secondary schools. Educational philosophies, conducting and arranging skills, the teaching of vocal and instrumental music, and teaching strategies for various ages. Twenty-five hours of observation-practicum in music in the schools. Prerequisites: MUS 331 and fulfillment of the Piano Proficiency Requirement. No S/U option.

### **MUS 432 - Marching Band Techniques (1)**

Charting, arranging for, organizing, and directing a marching band, with particular emphasis on high school marching bands. Prerequisite: MUS 343. Offered upon request, subject to availability of faculty. No S/U option.

### **MUS 485 - Independent Study in Music (1)**

A project in an area of performance practices or some phase of music history, theory, or education. No S/U option.

### **MUS 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **MUS 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **MUS 701 - Music Performance Seminar (Zero Course Credit)**

A semester-long program requiring attendance at a number of musical events. The number of required events changes from semester to semester. Students should contact the Department of Music each semester for details.

### **MUS 702 - Composition (1/2-1)**

Original composition for various media, beginning with smaller forms. Prerequisite: permission of instructor. May be repeated for credit. No S/U option.

(Fine Arts)

### **MUS 703 - Brass Instrumental Techniques (1/4)**

Development of basic performing techniques. Study and evaluation of procedures and materials for elementary and intermediate instrumental teaching. No S/U option.

### **MUS 704 - Percussion Instrumental Techniques (1/4)**

Development of basic performing techniques. Study and evaluation of procedures and materials for elementary and intermediate instrumental teaching. No S/U option.

### **MUS 705 - Strings Instrumental Techniques (1/4)**

Development of basic performing techniques. Study and evaluation of procedures and materials for elementary and intermediate instrumental teaching. No S/U option.

### **MUS 706 - Woodwinds Instrumental Techniques (1/4)**



Development of basic performing techniques. Study and evaluation of procedures and materials for elementary and intermediate instrumental teaching. No S/U option.

### **MUS 707 - Singers Instrumental Techniques (1/4)**

Development of basic performing techniques. Study and evaluation of procedures and materials for elementary and intermediate instrumental teaching. No S/U option.

### **MUS 708 - Guitar Instrumental Techniques (1/4)**

Development of basic performing techniques. Study and evaluation of procedures and materials for elementary and intermediate instrumental teaching. No S/U option.

### **MUS 709 - Advanced Jazz Improvisation (1/4)**

A continuation of MUS 215 Jazz Improvisation. Study and discussion of the various approaches to jazz improvisation. Focus will be on chord/scale relationships, advanced harmonic substitutions, stylistic considerations, solo analysis, and relationships between harmony, melody, and structure. Students will also begin learning important pieces in the basic jazz repertoire. May be repeated for credit. No S/U option.

### **MUS 710 - Advanced Jazz Improvisation (1/2)**

A continuation of MUS 215 Jazz Improvisation. Study and discussion of the various approaches to jazz improvisation. Focus will be on chord/scale relationships, advanced harmonic substitutions, stylistic considerations, solo analysis, and relationships between harmony, melody, and structure. Students will also begin learning important pieces in the basic jazz repertoire. May be repeated for credit. No S/U option.

### **MUS 711 - Chamber Ensembles (1/4)**

No S/U option.

### **MUS 712 - Choir (1/4)**

No S/U option.

### **MUS 713 - Jazz Ensemble (1/4)**

No S/U option.

### **MUS 714 - College Chorale (1/4)**

No S/U option.

### **MUS 715 - Orchestra (1/4)**

No S/U option.

### **MUS 716 - Concert Band (1/4)**

No S/U option.

### **MUS 717 - Chamber Singers (1/4)**

No S/U option.

### **MUS 718 - Cornell Lyric Theatre (1/4)**

Participation in an opera, operetta, or musical theatre production. Open to all students by audition or with permission of instructor. May be repeated for credit. No S/U option.  
(Fine Arts)

### **MUS 719 - Accompanying (1/4)**

No S/U option.

### **MUS 720 - Steel Drum Ensemble (1/4)**

No S/U option.

**MUS 728 - Cornell Lyric Theatre (1/4)**

Participation in an opera, operetta, or musical theatre production. Open to all students by audition or with permission of instructor. May be repeated for credit. No S/U option.

(Fine Arts)

**MUS 731 - Brass Instruments (1/4)**

No S/U option.

**MUS 732 - Brass Instruments (1/2)**

No S/U option.

**MUS 733 - Brass Instruments (1)**

No S/U option.

**MUS 741 - Organ (1/4)**

No S/U option.

**MUS 742 - Organ (1/2)**

No S/U option.

**MUS 743 - Organ (1)**

No S/U option.

**MUS 751 - Percussion Instruments (1/4)**

No S/U option.

**MUS 752 - Percussion Instruments (1/2)**

No S/U option.

**MUS 753 - Percussion Instruments (1)**

No S/U option.

**MUS 761 - Piano (1/4)**

No S/U option.

**MUS 762 - Piano (1/2)**

No S/U option.

**MUS 763 - Piano (1)**

No S/U option.

**MUS 771 - String Instruments (1/4)**

No S/U option.

**MUS 772 - String Instruments (1/2)**

No S/U option.

**MUS 773 - String Instruments (1)**

No S/U option.

**MUS 774 - Guitar (1/4)**

No S/U option.

**MUS 775 - Guitar (1/2)**

No S/U option.

**MUS 776 - Guitar (1)**

No S/U option.

**MUS 777 - Harp (1/4)**

No S/U option.

**MUS 778 - Harp (1/2)**

No S/U option.

**MUS 779 - Harp (1)**

No S/U option.

**MUS 781 - Voice (1/4)**

No S/U option.

**MUS 782 - Voice (1/2)**

No S/U option.

**MUS 783 - Voice (1)**

No S/U option.

**MUS 791 - Woodwind Instruments (1/4)**

No S/U option.

**MUS 792 - Woodwind Instruments (1/2)**

No S/U option.

**MUS 793 - Woodwind Instruments (1)**

No S/U option.

**MUS 798 - Half Recital (1/2)**

25 minutes of music. Required of Music Performance majors. Available to any student with approval of the Department. A pre-recital hearing is required. No S/U option.

**MUS 799 - Full Recital (1)**

50 minutes of music; usually performed in the senior year. Required of Music Performance majors. Available to any student with approval of the Department. A pre-recital hearing is required. No S/U option.

## Philosophy

**PHI 105 - Topic: The Morals of Our Stories (FYS) (1)**

This course will examine ethical theories and notions embedded in the discourse of storytelling. Moral lessons and norms are conveyed in the pages as the tale unfolds and the characters develop. Through the use of fable, fiction and film, the ethical principles of major philosophical systems will be discerned and analyzed. As a first year seminar, emphasis will be placed on academic expectations, coursework integrity, and vital critical reasoning

skills in writing and discussion. MIGELY  
(FYS)

### **PHI 109 - Ethics and Climate Change (FYS) (1)**

The threat of climate change raises urgent questions about what we ought to do-i.e., questions about morality. We will spend some time considering climate science and questions raised by controversy about that science. What should we believe about the claim that human activity is threatening the climatic stability of our planet given apparent disagreement about the truth of that hypothesis. We will also spend time considering the moral challenges the risk of climate change generates: what is the nature of our obligations to prevent harm to people distant in space and in time; what responsibilities do nations of the industrialized world have to respond to threats generated by climate change; what does it make sense for such nations to do given the uncertainty of some outcomes of climate change; what should we, as individual citizens of such nations, be doing? We will read material of all sorts about these questions-we'll look at scientific reports, economic analyses, and philosophical/ethical arguments, for example-and talk and write about what we make of the issues. Seminar for first year students only.  
(First Year Seminar)

### **PHI 109 - Topic: Ethics and Climate Change (FYS) (1)**

The threat of climate change raises urgent questions about what we ought to do-i.e., questions about morality. We will spend some time considering climate science and questions raised by controversy about that science. What should we believe about the claim that human activity is threatening the climatic stability of our planet given apparent disagreement about the truth of that hypothesis? We will also spend time considering the moral challenges the risk of climate change generates: what is the nature of our obligations to prevent harm to people distant in space and in time; what responsibilities do nations of the industrialized world have to respond to threats generated by climate change; what does it make sense for such nations to do given the uncertainty of some outcomes of climate change; what should we, as individual citizens of such nations, be doing? We will read material of all sorts about these questions-we'll look at scientific reports, economic analyses, and philosophical/ethical arguments, for example-and talk and write about what we make of the issues. Students will be expected to enroll in an online learning community and will receive ¼ additional adjunct course credit for their participation during the fall semester. WHITE  
(FYS)

### **PHI 111 - Introduction to Philosophy (1)**

Problems of philosophy as they are discussed in the writings of major philosophers, including such topics as the nature of reality, problems with knowledge, morality, and the rationality of religious belief. Designed for first year students and sophomores.  
(Humanities)

### **PHI 202 - Ethics (1)**

The nature of moral experience, moral judgments, and moral principles, and the relation of each to the other. Course may consider applications to contemporary moral problems. Readings from some major ancient, modern, and contemporary moral philosophers.  
(Humanities)

### **PHI 203 - Logic and Critical Thinking (1)**

Principles and techniques useful for evaluating arguments and avoiding fallacious reasoning in ordinary life.

### **PHI 204 - Symbolic Logic (1)**

An introduction to formal argument analysis, including first order predicate logic and mathematical logic. Offered upon request and subject to availability of faculty.

### **PHI 223 - Business Ethics (1)**

Through readings and cases, moral issues, encountered in economic life are studied. Topics include the profit motive, justice, business-consumer relations, employer-employee relations, corporate responsibility private ownership and public interest, advertising, and resolutions of disagreements.

### **PHI 224 - Environmental Ethics (1)**

Moral dilemmas associated with human populations, industrial productivity, a deteriorating environment, and generally, our treatment of the natural world. Alternate years.  
(Humanities)

### **PHI 225 - Utopia (1)**

Philosophical study of selected works in Utopian literature such as: Plato's Republic, More's Utopia, Perkins-Gilman's Herland, Hilton's Lost Horizon, Rand's Anthem, Clarke's Childhood's End, and Lowry's The Giver.  
(Humanities)

### **PHI 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **PHI 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **PHI 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **PHI 301 - Asian Philosophy (1)**

Study of Eastern philosophies such as Hinduism, Buddhism, Confucianism, and Taoism through their classic texts. Examination of the nature of reality and the self, and how humans ought to live while analyzing such issues in a broader philosophical context. Prerequisite: sophomore standing. Alternate years.

(Humanities)

### **PHI 302 - Ancient Philosophy (1)**

Advanced study of the beginning of Western thought on topics such as the foundation of philosophical and scientific inquiry, the basis of reality, the nature of the human being and how humans ought to live socially, politically and ethically. In-depth analysis of the Presocratics, Plato, Aristotle and the Stoics. Prerequisite: sophomore standing. Alternate years.

(Humanities)

### **PHI 304 - Modern Philosophy: Seventeenth Century (1)**

Critical and historical examination of the modern period of philosophy starting with the background to the Scientific Revolution and ending with advanced theories on the nature of reality achieved by a careful analysis of such philosophers as Galileo, Newton, Bacon, Descartes, Spinoza, Leibniz, Locke and Berkeley. Prerequisite: sophomore standing. Alternate years.

(Humanities)

### **PHI 305 - Modern Philosophy: Eighteenth Century (1)**

European philosophy from 1700 to 1800. Study of the philosophers of the middle of the modern era such as Hume, Voltaire, Rousseau, and Kant. Prerequisite: sophomore standing. Alternate years.

(Humanities)

### **PHI 306 - Modern Philosophy: Nineteenth Century (1)**

European philosophy from 1800 to 1900. Study of the philosophers of the late modern era such as Hegel, Schopenhauer, Kierkegaard, Mill, Marx, and Nietzsche. Prerequisite: sophomore standing. Alternate years.

(Humanities)

### **PHI 307 - Marx and Marxism (1)**

Primary emphasis on reading a comprehensive and balanced selection of the writings of Karl Marx. Reading will include some leading Marxists such as Lenin, Mao Zedong, and Marcuse. Prerequisite: sophomore standing. Alternate years.

(Humanities)

### **PHI 308 - Twentieth Century Philosophy (1)**

Study of philosophers such as Wittgenstein, Russell, Dewey, Heidegger, Foucault, and Rorty. Analytic philosophy, pragmatism, and continental philosophy, including postmodernism, will be examined. Prerequisite: sophomore standing. Offered every second or third year.

(Humanities)

### **PHI 309 - Existentialism (1)**

Reflections on death, the meaning of life, absurdity, alienation, despair, freedom, and the self. Study of selected works of Simone De Beauvoir, Albert Camus, and Jean Paul Sartre. Prerequisite: sophomore standing. Alternate years.

(Humanities)

### **PHI 352 - Philosophy of Feminism (1)**

Exploration of philosophical theories on the nature of women, feminist critiques of Western philosophy, and current issues in feminist ethics, multicultural feminism, and feminist epistemology with application to social debates such as sex-based work, body image, and discrimination. This

course also counts towards the GSS major. Prerequisite: sophomore standing. Alternate years.  
(Humanities)

### **PHI 353 - Philosophy of Law (1)**

Inquiry into the nature of law, and its relation to morality and society through both classical and contemporary legal theories. Specific issues covered include liberty, justice, responsibility, and punishment employing actual legal cases. Prerequisite: sophomore standing. Alternate years.  
(Humanities)

### **PHI 354 - Political Philosophy (1)**

Intensive study of the work of a major political philosopher, such as A Theory of Justice by John Rawls or Plato's The Laws. Prerequisite: sophomore standing. Offered every third year.  
(Humanities)

### **PHI 355 - Philosophy of Religion (1)**

Philosophical examination of the major concepts and claims of the Western religious tradition. Topics to be discussed include the nature and existence of God, the problem of evil, the nature of religious language, the relation between faith and reason, and the possibility of religious knowledge. Prerequisite: sophomore standing. Alternate years.  
(Humanities)

### **PHI 356 - Philosophy of Science (1)**

Examination of science as a source of information about the world. Topics include the structure of scientific confirmation and explanation, the nature of scientific knowledge and progress, the difference between science and pseudo-science, and the moral evaluation of science. Prerequisite: sophomore standing. Alternate years.  
(Humanities)

### **PHI 357 - Philosophy in Literature (1)**

Philosophical study of selected works of world literature by authors such as Mishima, De Beauvoir, Calvino, Clark, and Rand. Prerequisite: sophomore standing. Alternate years.  
(Humanities)

### **PHI 358 - Philosophy of Mind (1)**

Theories about the mind and mental phenomena: the relationship between minds and brains; consciousness; free will; artificial intelligence; and the philosophy of psychology. Prerequisite: sophomore standing. Alternate years.  
(Humanities)

### **PHI 360 - Evolution and Philosophy (1)**

An examination of the theory of evolution--what it says, what support it has, what it can (and cannot) explain--in order to see what (if any) implications it has for religion, morality, philosophy, and the understanding we have of ourselves and our world. Prerequisite: sophomore standing. Alternate years.  
(Humanities)

### **PHI 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **PHI 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **PHI 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **PHI 485 - Advanced Seminar in Philosophy (1)**

Capstone Seminar in Philosophy: Advanced focus on an issue or movement or problem in philosophy, or on a particular philosopher. Prerequisites: at least three 300-level course in Philosophy, a major or minor in Philosophy, and junior or senior standing or permission of the department. Alternate years.

## **PHI 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

## **PHI 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

# **Physics**

## **PHY 116 - Energy & Society (FYS) (1)**

Our modern society depends critically on the conversion of stored energy sources, like coal, oil, and natural gas, into useful forms of energy such as electricity, transportation, and heat. This course will explore the societal impacts of this energy use on human health, the environment, and the economy. We will also explore energy production and consumption patterns around the world. Students will engage in critical reading, discussion, and several different types of academic writing. Because this is a writing course, significant course time will be spent on the writing process, with a focus on revision.

(First Year Seminar)

## **PHY 121 - Astronomy (1)**

Development of the current understanding of the origin, evolution, and structure of the universe. Physical principles upon which this understanding is based. Intended for non-science majors.

(Science)

## **PHY 123 - Acoustics, Music, Audio Systems (1)**

Application of elementary physics principles to sound waves and vibrations, including the physics of musical instruments, room acoustics, hearing, harmonic analysis, and electronic production of sound. Intended for non-science majors. Alternate years.

(Laboratory Science)

## **PHY 125 - Science through Film and Fiction (1)**

Scientific topics and issues found in selected novels and feature films are used to investigate the foundations of science and the scientific process. Students will investigate specific scientific concepts and use them as case studies illustrating the historical development of science and the role of science and technology in society. Intended for non-science majors.

(Science)

## **PHY 141 - Introductory Physics I (1)**

Non-calculus treatment of elementary physics covering the topics of mechanics, relativity, and waves. Emphasis on problem-solving. Prerequisite: two years of high school algebra including trigonometry.

(Laboratory Science)

## **PHY 142 - Introductory Physics II (1)**

Continuation of PHY 141 covering electricity, magnetism, and modern physics. Prerequisite: PHY 141.

(Laboratory Science)

## **PHY 161 - General Physics I (1)**

Introduction to physics intended for physical science majors. Topics include Newton's laws of motion, concepts of work and energy, rotational motion, and conservation laws. Prerequisite: MAT 120 or MAT 121.

(Science)

## **PHY 162 - General Physics II (1)**

Continuation of PHY 161. Topics include relativity and electricity and magnetism. Prerequisite: PHY 161.

(Science)

## **PHY 263 - Laboratory Physics (1)**

A laboratory experience designed to complement either of the introductory physics sequences. Techniques of experimental measurement and analysis, with experiments drawn from all areas of introductory physics. Completed for credit (CR), not letter grade. Prerequisite: PHY 162.

(Laboratory Science)

### **PHY 265 - Modern Physics (1)**

Topics include thermodynamics, special relativity, photons, deBroglie waves, Heisenberg's uncertainty principle, the Schrödinger equation, atomic and nuclear physics, high-energy particles, and quarks. Prerequisites: MAT 122, PHY 162, and PHY 263.

### **PHY 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **PHY 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **PHY 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **PHY 305 - Waves (1)**

Study of physical wave phenomena, especially optical and mechanical waves. Topics include superposition, reflection, refraction, dispersion, interference, diffraction, polarization phenomena, and the wave equation. Prerequisites: MAT 122, PHY 162, and PHY 263. Alternate years.

### **PHY 312 - Advanced Experimental Physics (1)**

An in-depth investigation of a physics experiment chosen by the student in consultation with the instructor. Includes design, construction, collection of data, analysis, interpretation, and presentation of the experiment. Prerequisite: EGR 270, either PHY 265 or PHY 303, and one other 300-level Physics course or permission of instructor.

### **PHY 315 - Astrophysics (1)**

The astrophysics of stars and stellar systems with an emphasis on the physical principles underlying the observed phenomena. Topics include the techniques of astronomy, structure and evolution of stars, binary stars, star clusters, and end states of stars such as white dwarfs, neutron stars, and black holes. Prerequisite: PHY 265 or PHY 303. Alternate years.

### **PHY 321 - Mechanics (1)**

Newtonian, Lagrangian, and Hamiltonian mechanics covering the motion of single particles, rigid bodies, systems of particles, fluid mechanics, and complex analysis. Prerequisites: MAT 221, PHY 162, and PHY 263. Alternate years.

### **PHY 322 - Electricity and Magnetism (1)**

Electric and magnetic fields and their sources, magnetic and dielectric materials, and Maxwell's equations. Prerequisites: MAT 122, PHY 162, and PHY 263. Alternate years.

### **PHY 334 - Introduction to Quantum Mechanics (1)**

Development of the Schrödinger wave equation and its solution for the harmonic oscillator and Coulomb potentials. Orbital and spin angular momenta, and applications to simple atomic and molecular systems. Prerequisites: MAT 221, PHY 265, and either PHY 305 or PHY 321. Alternate years.

### **PHY 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **PHY 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **PHY 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **PHY 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.



## **PHY 496 - Original Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

## **PHY 501 - Advanced Laboratory (1/4)**

Experiments of an advanced character, permitting the student to work relatively independently. Must be taken over four consecutive terms.

Prerequisite: permission of instructor.

(CR)

## **PHY 511 - Extended Research in Physics (1/4)**

Reading in depth on a topic of current interest and the pursuit of an experimental or theoretical problem related to the topic. Must be taken over four consecutive terms. Prerequisite: permission of instructor.

(CR)

## **PHY 963 - Oak Ridge Science Semester (1)**

see Cornell-Approved Domestic Off-Campus Programs.

## **Politics**

### **POL 111 - Introduction to Politics (1)**

Although you may not realize it, every one of us is involved in politics on a daily basis. We each have experienced parents and children haggling over the rules governing curfew or use of the car, employees and bosses negotiating behaviors at work, and organized crime families disputing turf wars (ok, maybe not that last one). Yet, in one way or another, politics is a part of our lives regardless of whether we are interested in Congress, political parties, or international negotiations. Politics is the process by which individuals and groups reach agreements on a course of joint action--even if they disagree on the intended goals of that action. This class discusses the problems that groups need to overcome to reach agreements on a joint course of action, and looks at the political institutions and other political processes and incentives that enable groups to overcome those barriers here in the United States and internationally.

(Social Science)

### **POL 122 - Foundations of the First Amendment (Political Thought) (1)**

Political thought from political practice to political philosophy. Recent U.S. Supreme Court rulings on the freedom of expression, the Constitutional background for the Court's ruling, and the arguments for freedom of expression. Readings include Mill's On Liberty, Supreme Court cases, works on current legal controversies, and John Milton.

(Social Science)

### **POL 125 - Ethics and Public Policy (Political Thought) (1)**

Contemporary studies in the standards that apply to political leaders and how they are explained, interpreted, and enforced. When taught off campus, registration entails additional expense.

(Social Science)

### **POL 142 - International Politics (International Relations & Comparative Government) (1)**

How and why states compete and cooperate internationally. Addresses concepts such as the balance of power between states, collective security through treaties and international organizations, nuclear deterrence, and the growing influence of non-Western states. Typically includes historical and current case studies.

(Social Science)

### **POL 143 - Comparative Politics (International Relations & Comparative Government) (1)**

Various types of political systems, including liberal democracies, current and former communist systems, and mixed systems of the developing world.

(Social Science)

### **POL 172 - American Politics (American Politics & Public Policy) (1)**

Survey of process and institutions of politics in the United States. Addresses topics in political behavior such as individual political attitudes, political participation in the U.S. context as well as discussing American political institutions such as the presidency, Congress, the judicial system, the bureaucracy, political parties, and interested groups.

(Social Science)

### **POL 182 - Public Policy (American Politics & Public Policy) (1)**

Introduction to the policy-making process, to the basics of public policy analysis, and to the substance of selected policy debates.  
(Social Science)

### **POL 216 - Education Policy and Practice (1)**

This course will explore education policies and their relationship to sociological patterns of school resegregation, the rise of credentialism, the end of educational expansion, and inequality of educational opportunity. Students in the course will be introduced to the history of policymaking in education beginning with the education reform policies of Horace Mann. Students will also examine demographic data on educational attainment, analyze the policies that alleviate or reinforce educational inequality, and describe what assumptions lie behind current reform ideas. We will evaluate the dynamics of current debates by referencing the long-standing tensions among the different purposes of schooling we have in our nation.  
Same course as EDU 216  
(Social Science)

### **POL 230 - Research Methods in Politics (1)**

Methods and research design in political science to address the causal processes that produce outcomes in politics. Course covers quantitative, experimental, qualitative, and field research methods, research design, and inference. Prerequisite: STA 201  
Social Science

### **POL 250 - Principles of Advocacy (American Politics & Public Policy) (1)**

An overview of the United States legal system with an emphasis on the adversarial approach to resolution of conflicts and controversies in federal, state, and local tribunals as well as in alternate forums and venues. Students will gain a general understanding of the roles of the various participants with primary focus on the role of the lawyer as advocate. The course will incorporate aspirational and ethical considerations, practical issues faced by trial attorneys, and the potential for fulfillment and disillusionment fighting the battles of others.  
(Social Science)

### **POL 252 - Topic: Democracy and Diversity (1)**

Can a diverse society achieve sufficient agreement on fundamental values and norms for democracy to function effectively? This class will address several issues related to this central question: what we mean by democracy, recognition of subaltern groups, majority rule versus protections for minorities, the rights of indigenous groups, the balance between individual liberties and protections for groups, the impact of intersectionality upon how we think about identity, and others.  
(Social Science)

### **POL 256 - Nature, Functions, and Limits of the Law (1)**

How the law mediates between individual interests as well as attempts at furthering the common good, often at the expense of individual interests. Addresses how the law resolves disputes, how it maximizes welfare and wealth, how it is structured, who decides what we mean by law and how it functions, who decides what the societal interest is and whether it trumps what an individual wishes to do.  
(Social Science)

### **POL 280 - Political Affairs Internship (1)**

Field experience in applied politics. See Additional Academic Opportunities, All-College Independent Study Courses 280/380. Prerequisites: acceptance by a sponsoring agency or individual and approval of a formal prospectus by the faculty sponsor.  
(CR)

### **POL 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **POL 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **POL 325 - Anglo-American Constitutional Thought (Political Thought) (1)**

Richard Hooker, Thomas Hobbes, John Locke, Benjamin Franklin, and other Americans considered as guides to the much admired and imitated American experiment in writing a constitution. Prerequisite: POL 122 or POL 125.  
(Social Science)

### **POL 327 - Revolutionary Political Thought (1)**

Modern writings for and against revolution, including Marx's Manifesto, Burke's Reflections, and Hardt/Negri's Multitude. Prerequisite: POL 122 or POL 125 or permission of the instructor. Alternate years.  
(Social Science)

### **POL 330 - Women and Politics: A Cross-National Perspective (International Relations & Comparative Government) (1)**

This course examines a variety of issues and debates within the field of Political Science that are particularly relevant to the study of women and politics. The course will examine women's participation in formal politics in a comparative perspective, by focusing on women's roles as voters, candidates, and officeholders. Course materials include case studies from various countries. To be taught in India, alternate years. This course also counts towards the GSS major. Prerequisite: POL 143. Alternate years.  
(Social Science)

### **POL 331 - Gender and Development (International Relations & Comparative Government) (1)**

This course will critically investigate the complex ways in which gender relationships shape history, ideology, economy, and polity in developing countries. The role and status of Asian women will be examined to enable students to compare and contrast non-Western experiences with Western experiences. The forces of modernity and the impact on colonialism will also be discussed especially in relation to the economic and political conditions of the non-Western world and development. This course also counts towards the GSS major. Prerequisite: POL 143. Alternate years.  
(Social Science)

### **POL 332 - Human Rights (International Relations & Comparative Government) (1)**

Practices and characteristics of governments and non-governmental actors that abuse and protect human rights, history of the concept and treatment of rights, justifications for the protection of rights, differences between categories of rights, prospects for the improved protection of rights through international and domestic action. Prerequisite: junior standing. Alternate years.  
(Social Science)

### **POL 333 - International Organizations (International Relations & Comparative Government) (1)**

History, present characteristics, and future prospects of efforts to establish international order through global and regional integration and governance, the development of international law, the activity of internationally-oriented non-state actors and social movements, and resistance thereto. Prerequisite: POL 142. Alternate years.  
(Social Science)

### **POL 334 - Strategies to Alleviate Poverty (International Relations & Comparative Government) (1)**

The course explores the nature of poverty in the developing world. What causes it? What behaviors does it induce? Emphasis is on discussing various institutional factors that lead to poverty. The course will explore strategies and programs designed to alleviate poverty at the international, national and local levels, and analyze the role of the World Bank, national governments and non-governmental organizations in eliminating poverty. Can poverty be eradicated and if so, can the solution be found in capitalism itself? If not, is there a viable alternative? Prerequisite: POL 142 or POL 143. Alternate years.  
(Social Science)

### **POL 341 - Latin American Politics (International Relations & Comparative Government) (1)**

History, present characteristics, and future prospects of political systems in Central America, South America, and the Caribbean. Addresses decolonization, authoritarianism, democratization, human rights, the political effects of social institutions and economic crises, and foreign relations with the US and other powers. Prerequisite: POL 143, LAS 141, or HIS 141. Alternate years.  
(Social Science)

### **POL 346 - Political Economy of Developing Countries (International Relations & Comparative Government) (1)**

Political-economic systems of selected developing countries of Africa, Asia, and Latin America. Discussions of independence movements, post-independence experiences of civilian rule, civil-military relations, and the evolving relationships between politics and economics in these countries. Prerequisite: POL 143. Alternate years.  
(Social Science)

### **POL 348 - U.S. Foreign Policy (International Relations & Comparative Government) (1)**

Process by which U.S. foreign policy is made and implemented, focusing on contemporary cases. Emphasis on how the political process and distribution of authority affect policy. Prerequisite: POL 142.  
(Social Science)

### **POL 349 - International Political Economy (International Relations & Comparative Government) (1)**

This class uses methods and theorems central to international economics in the areas of trade and money (such as comparative advantage, factor and sector models, partial and general equilibrium, the Heckscher-Ohlin model, imperfect competition, import-substitution vs. export-orientation, strategic trade theory, balance of payments, aggregate demand, the Stolper-Samuelson theorem, and other concepts, methods, and theorems) to sustain an economically informed discussion of the political constraints upon and political implications of international exchange of goods and currencies. I have often noted that the class covers a large part of the same economic material as ECB 223 (International Economics), though we constantly direct our attention to the questions of what political constraints preclude or modify the outcomes economists expect and how economic developments favor and constrain the desires of domestic political actors. The class also has a substantial focus upon the political constraints upon economic development, that highlights the very important interactions between these economic and political science concepts in a particular policy area that is often of interest to students. Thus, the focus of the class is upon questions that are of interest to both economists and political scientists, and my hope is that our attention to the interaction between economics and politics - each viewed through the disciplinary lenses best adapted to understanding them - will help my students understand the value of using multiple disciplinary approaches to approach problems. Prerequisites: POL 142 and ECB 101. Alternate years.  
(Social Science)

### **POL 352 - Topics: Politics of Race & Ethnicity (1)**

Recent events have highlighted the impact of race and racial tensions on American politics. This course will broadly review the ways in which race and ethnicity shape and are shaped by American politics. In this class we will address a number of questions that will provide a better understanding of how race plays a role in American politics. How do race and ethnicity become politicized? What role does ethnic or racial identity play in one's political behavior and decision-making processes? To what extent do political institutions and institutional design reinforce the salience of ethnic or racial identity in politics? These are just some of the questions that we will explore, as well as some of the methodological challenges involved in studying the politics of race and ethnicity. POL 172 OR POL 262

### **POL 358 - Political Behavior, Participation and Activism (American Politics & Public Policy) (1)**

Political behavior is the study of the way people think, feel about politics, and how and why they act (or choose not to act) on those thoughts and feelings. It is also about understanding how different actors such as parties, interest groups, the media, and political elites influence the decisions of individuals to participate in the process. Democratic theory is built on the principle that citizens can make informed and rational choices. This course looks at the opinion formation of individuals and how these individuals become engaged in the political process.  
(Social Science)

### **POL 361 - Race, Sex, and the Constitution (American Politics & Public Policy) (1)**

Exploration of Constitutional principles including equal protection of the laws, privacy, and freedom of speech as they apply to issues of race, gender, and ethnicity: race and sex discrimination, equal opportunity, affirmative action, abortion, pornography, privacy rights, hate speech, political correctness, etc. This course also counts towards the GSS major. Prerequisites: POL 172 and junior standing. Alternate years.  
(Social Science)

### **POL 363 - Campaigns and Elections (American Politics & Public Policy) (1)**

Examination of the electoral process in the U.S. This course also addresses in depth the factors that contribute to voting behaviors of citizens examined from the point of view of both citizens and campaigns and how these aspects contribute to electoral success or failure. Prerequisite: POL 172. Alternate years.  
(Social Science)

### **POL 364 - Congress and the Presidency (American Politics & Public Policy) (1)**

In-depth study of the central institutions of the American political system and the evolving relationship between them. Prerequisite: POL 172. Alternate years.  
(Social Science)

### **POL 365 - Constitutional Law: The American System (American Politics & Public Policy) (1)**

Structure and function of the American judicial system and its role in constitutional interpretation. The court's role in three great conflicts that have shaped the American experience: (1) nation vs. states-the struggle for sovereignty, (2) Congress vs. President-the struggle for supremacy over national policy, and (3) government vs. business-the struggle over government regulation of the economy. Prerequisites: POL 172 and junior standing. Alternate years.  
(Social Science)

### **POL 366 - Constitutional Law: Rights and Liberties (American Politics & Public Policy) (1)**

Rights of individuals in America. The court's role in three broad areas: (1) criminal prosecution, (2) free expression, and (3) race and sex discrimination. Prerequisites: POL 172 and junior standing. Alternate years.  
(Social Science)

### **POL 367 - Urban Politics and Policy (American Politics & Public Policy) (1)**

Government in urban America. Issues of public policy, and their consequences for city dwellers and the nation. Feasibility and desirability of various solutions. Prerequisite: POL 172 or POL 182. Alternate years.  
(Social Science)

**POL 368 - Environmental Politics and Policy (American Politics & Public Policy) (1)**

Analysis of the policy process concerning energy and environmental issues, emphasizing the interrelated roles of Congress, federal and state agencies, the President, interest groups, etc., and including an evaluation of alternative policies. Prerequisite: POL 172 or POL 182. Alternate years.  
(Social Science)

**POL 371 - Wilderness Politics and Policy (American Politics & Public Policy) (1)**

An exploration of governmental policies designed to preserve and manage wilderness areas in the United States. Taught at the Wilderness Field Station and in the Boundary Waters Canoe Area. Registration entails additional costs. Prerequisites: POL 172 or POL 182 and permission of the instructor. Alternate years.  
(Social Science)

**POL 372 - Current Cases before the Supreme Court (American Politics & Public Policy) (1)**

Examination of selected cases to be heard by the Supreme Court through lecture, discussion, and oral argument. Case analysis by Judge Hansen and Professor Sutherland in the first half of the course; oral argument by students in the last half. Prerequisite: POL 172.  
(Social Science)

**POL 380 - Political Affairs Internship (1)**

Field experience in applied politics. See Additional Academic Opportunities, All-College Independent Study Courses 280/380. Prerequisites: acceptance by a sponsoring agency or individual and approval of a formal prospectus by the faculty sponsor.  
(CR)

**POL 381 - Education Policy in America: Dollars, Sticks, or Carrots? (American Politics & Public Policy) (1)**

This course will focus on analyzing contemporary education policy in the United States. We will explore the motivations, goals, and outcomes of major educational policies. Have they achieved what they intended to accomplish? Why or why not? We will also consider issues concerning the role of education in society, the presence and impact of inequality in education, and the role of the federal government in guiding education policy. Throughout the course we will return to an underlying question that permeates many of today's education policy debates: What is the proper use of incentives, resources, and/or sanctions in maximizing student achievement, teacher quality, and social benefits from education? Prerequisite: POL 172 or POL 182.  
(Social Science)

**POL 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

**POL 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

**POL 483 - Research Seminar (1)**

Each student will choose a topic within politics to explore through group discussion and peer review, presentations, and a paper that critically reviews existing research to advance an argument. Prerequisites: Politics major with junior standing and three 300-level Politics classes other than internships. No S/U option.  
(Social Science)

**POL 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

**POL 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

**POL 511 - Readings in Politics and Public Policy (1/4)**

Weekly reading and discussion on a topic of interest in Politics and Public Policy around a general theme. Three meetings per term for four terms, with one or two hours of outside reading in preparation for each discussion. May be repeated for credit to a maximum in both Pol 511 and POL

512 of two course credits.  
(CR)

### **POL 512 - Extended Research in Politics and Public Policy (1/4)**

The pursuit of an empirical problem through experimental or other research, including research design, implementation, and write-up and dissemination of results. May be repeated for credit to a maximum in both POL 511, and POL 512 of two course credits.  
(CR)

### **POL 561 - Mock Trial (1/4)**

Participating in simulated trials in competition with teams from other institutions, learning legal practices, procedures and ethics and developing critical thinking and public speaking skills.  
(CR)

### **POL 981 - Washington Center (1)**

see Cornell-Approved Domestic Off-Campus Programs.

### **POL 982 - Capital Experience (1)**

see Cornell-Approved Domestic Off-Campus Programs.

## **Psychology**

### **PSY 161 - Fundamentals of Psychological Science (1)**

Scientific study of behavior. Topics may include learning, development, personality, perception, physiological bases of behavior, the behavior of individuals in groups, and abnormal behavior.  
(Social Science)

### **PSY 243 - Psychological Insights into Environmental Problems (FYS) (1)**

Human behavior is at the root of almost all environmental problems: We drive gas guzzling cars (contributing to both global warming and depletion of natural resources), produce tons of refuse, deplete water resources (build golf courses in the desert). This course explores facets of psychology that can help explain why we act as we do and how we might change behavior toward greater sustainability. We review some basic psychological principles as they apply to the environment: What are the thinking processes that lead some people to accept and others to reject concepts like global warming? How do people develop their basic value systems, and how do things like emotions and culture impact this? Even when people want to change their behaviors, what are the barriers that make change difficult? Course includes an analysis and application of these principles to a local issue.

(First Year Seminar)

### **PSY 243-1 - Psychological Insights: Environmental Problems (FYS) (1)**

Human behavior is at the root of almost all environmental problems: We drive gas guzzling cars (contributing to both global warming and depletion of natural resources), produce tons of refuse, deplete water resources (build golf courses in the desert). This course explores facets of psychology that can help explain why we act as we do and how we might change behavior toward greater sustainability. We review some basic psychological principles as they apply to the environment: What are the thinking processes that lead some people to accept and others to reject concepts like global warming? How do people develop their basic value systems, and how do things like emotions and culture impact this? Even when people want to change their behaviors, what are the barriers that make change difficult? Course includes an analysis and application of these principles to a local issue. GANZEL

(FYS)

### **PSY 244 - Human Aggression & Violence (W) (1)**

This course will examine recent efforts to integrate explanations of human aggression and violence across several disciplines. Students will consider the interplay between social learning, neural, endocrine, and evolutionary explanations of aggression by individuals in their social environment. Topics are likely to include interpersonal and online aggression, workplace violence, aggression within competitive situations, video/computer game violence, and war. In addition to analyzing both primary and secondary sources, special attention will be given the depiction of violence across several different forms of mass media. Because this is a writing course, a significant amount of time will be spent on the writing process, with a focus on revision. Not open to students who have completed their writing course (W) requirement. DRAGON

(Writing Requirement (W))

### **PSY 244 - Human Aggression and Violence (W) (1)**

This course will examine recent efforts to integrate explanations of human aggression and violence across several disciplines. Students will consider the interplay between social learning, neural, endocrine, and evolutionary explanations of aggression by individuals in their social environment.

Topics are likely to include interpersonal and online aggression, workplace violence, aggression within competitive situations, video/computer game violence, and war. In addition to analyzing both primary and secondary sources, special attention will be given the depiction of violence across several different forms of mass media. Because this is a writing course, a significant amount of time will be spent on the writing process, with a focus on revision. Not open to students who have previously completed a writing course.  
(Writing Requirement)

### **PSY 245 - Lifespan Development (1)**

Investigation of the major subfields of psychology from a developmental perspective: cognition, emotion, motivation, personality/self, biological systems (brain/nervous system, endocrine), social relationships (peers and family). Includes discussions of research methods particular to lifespan research, genetic-environment interactions, prenatal development, and dying/bereavement.  
(Social Science)

### **PSY 274 - Social Psychology (1)**

An examination of the thoughts, feelings, and behaviors of individuals within their social environment. Topics will include: conformity, propaganda, persuasion, social cognition, self-justification, human aggression, prejudice, attraction, and loving relationships. Emphasis will be placed on critically examining experimentally-derived theories and testing them within naturalistic settings. This will involve data collection off-campus on a weekend.  
(Social Science)

### **PSY 276 - Multicultural Psychology (1)**

An examination and critique of psychological knowledge from a multicultural perspective. Topics include: the social construction of Western psychology; cultural variations in concepts of personality, intelligence, human development, social behavior, gender, and abnormal behavior; research methodology issues; culture and communication; and psychological perspectives on oppression, prejudice, and racism.  
(Social Science)

### **PSY 277 - Child Development (1)**

Physiological, cognitive, social, and cultural influences on development from conception through middle childhood. Emphasis on building an integrated picture of child development and an appreciation of how theory and data can be applied to the analysis of practical issues. Fifteen to twenty hours of observation in daycares/preschools. Students must provide their own transportation. Prerequisite: PSY 161.  
(Social Science)

### **PSY 278 - Adolescence (1)**

Investigation of research on biological, cognitive, and cultural influences on adolescent development. Includes the impact of family, peers, school, media, and work, as well as identity, gender, and sexuality development. Also includes a discussion of problem behaviors (e.g., eating disorders, juvenile delinquency, alcohol use/abuse) often associated with adolescence. Course involves application of research findings to individual cases. Suggested Prerequisite: PSY 161.  
(Social Science)

### **PSY 279 - Personality Theories (1)**

Survey of major research and theoretical approaches to personality, including psychodynamic, humanistic, learning, cognitive, and dispositional theories. Research evidence and theoretical consistency/usefulness concerning each approach. Current issues and debates.  
(Social Science)

### **PSY 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **PSY 282 - Abnormal Psychology (1)**

Etiology, dynamics, and treatment of mental disorders. Problems of diagnosis, prevention, and therapy in relation to such disturbances as transient and long-term reactions to stress, depression, anxiety disorders, addictions, schizophrenia, somatoform and dissociative disorders, and other problems in living. Prerequisite: PSY 161.  
(Social Science)

### **PSY 283 - Abnormal Child/Adolescent Psychology (1)**

A survey of emotional and behavioral disorders in children and adolescents, including the description of various behaviors, symptoms, syndromes, and disorders as well as research on child and adolescent disorders. The course explores multiple developmental pathways of children and adolescents as well as risks and protective factors that may influence the likelihood of developing a disorder. The course also addresses why and under what conditions disorders persist into adulthood. Prerequisites: PSY 161.  
(Social Science)

### **PSY 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **PSY 292 - Research Methods I (1)**

Introduction to research design with a focus on research ethics, Type I error, Type II error, sampling, measurement, reliability, validity, experimental design, introduction to quasi-experimental design, correlational design, observational research, and survey research. Introduction to descriptive statistics (measures of central tendency, measures of dispersion, confidence intervals of a single population mean), and univariate inferential statistics (independent samples t-test, dependent samples t-test, one-way ANOVA, one-way repeated measures ANOVA, confidence intervals of a difference score, estimates of effect size, Pearson's coefficient of correlation, simple linear regression, chi squared). Execution of all aspects of the research process including a literature search, hypothesis development, data collection, data analysis, and manuscript writing in APA style. Prerequisite: PSY 161. Required for all sophomore Psychology majors. No S/U option.  
(Social Science)

### **PSY 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **PSY 344 - Social Neuroscience (1)**

This course is an examination of recent efforts to integrate psychological and biological explanations of social behavior. Topics are likely to include aggression, loving, prejudice, helping behavior, conformity, emotions, and attraction. The interplay between social learning, neural, and endocrine systems in explanations of the behavior of individuals within their social environment will be given special attentions. Prerequisite: PSY 274.  
(Social Science)

### **PSY 361 - Cognitive Neuroscience (1)**

A critical examination of the neuroscience of memory and thought processes. Topics are likely to include: object recognition, attention, concept formation, memory systems, visual imagery, problem solving, judgment and language. Laboratory sessions will include discussions and presentations on the phenomena covered in class. Prerequisite: PSY 161 and any 200-level Psychology course.  
(Social Science)

### **PSY 362 - Learning (1)**

Experimental and theoretical approaches to the understanding of classical and instrumental conditioning. Among the topics to be covered are reflexive and unlearned behaviors, situational factors in classical and operant conditioning, optimum circumstances for use of reinforcement and punishment, effects of aversive stimuli, choice behavior, learned food preferences, behavior modification, and observational learning. Links to neural processes of both learning and memory will also be covered. Prerequisite: PSY 161 and any 200-level Psychology course.  
(Social Science)

### **PSY 363 - Introduction to Behavioral Neuroscience (1)**

Neural and endocrine systems and their relationships with sensation and perception, learning and memory, eating and drinking, sleep, sex, emotion, consciousness, communication, and psychological disorders. Laboratory sessions will include hands on demonstrations, including sheep brain dissection. Prerequisite: PSY 161 and any 200-level Psychology course. Research Methods is recommended.

### **PSY 370 - Memory and Cognition (1)**

Research and theory about remembering and forgetting. Topics will include: models of memory (including neural network approaches), brain processes in memory, the role of images in memory, reconstructive processes in memory, memory and development, and how to improve memory. Prerequisites: PSY 161 and any 200-level Psychology course.  
(Social Science)

### **PSY 374 - Psychology of Women and Gender (1)**

Critical examination of theories, research, and historical perspectives relevant to women and gender. Topics include socialization, stereotyping and bias, life choices and roles, nature/nurture questions, physical and mental health, violence against women, and diversity among women and men. This course also counts towards the GSS major. Prerequisites: PSY 161 and any 200-level Psychology course.  
(Social Science)

### **PSY 378 - Abnormal Behavioral Neuroscience (1)**

This course will examine the relationship between aberrant biological processes and abnormal behavior. Aberrant biological processes in schizophrenia, major depression, bipolar disorder, eating disorders, personality disorders, autism spectrum disorders, substance disorders, and attention-deficit hyperactivity disorder will be examined. The effect of treatment on aberrant biological markers will be explored. Prerequisites: PSY



161 Recommended Prerequisites: PSY 292 and PSY 363  
(Social Science)

### **PSY 379 - Intimate Relationships (1)**

An examination of the theoretical and experimental psychological literature on loving and romantic relationships. Topics discussed include: interpersonal attraction, relationship development, sexuality, social power, communication, jealousy and envy, conflict and dissolution, loneliness, social networks, and relationship counseling. Prerequisite: any 200-level Psychology course.  
(Social Science)

### **PSY 380 - Internship (Human Services Practicum) (1/4, 1/2, or 1)**

Application of psychological principles in an applied off-campus setting. In addition to the All College requirements for Internships (see Additional Academic Opportunities ) PSY 380 students must have a declared major in Psychology. The maximum credit that may be earned in a Psychology practicum is three course credits accrued over PSY 380 and PSY 395. Students must provide their own transportation and purchase professional liability insurance through the American Psychological Association. Prerequisites: a declared major in Psychology, two course credits in Psychology relevant to the topic of the practicum, and permission of instructor.  
(CR)

### **PSY 382 - Counseling and Psychotherapy (1)**

Major theories of therapy and counseling. Views of practitioners and theorists of various orientations. Prerequisite: any 200-level Psychology course.  
(Social Science)

### **PSY 383 - Health Psychology and Behavioral Medicine (1)**

Mind and body are inextricably linked, interacting in complex ways to contribute jointly to illness, disease, health, and well-being. Thus, the study of the mind (i.e., Psychology) has been integrated with the study of physical health (i.e., Medicine) to create the closely related fields of Health Psychology and Behavioral Medicine. The purpose of this course is two-fold: 1) to comprehend and integrate psychological and biomedical knowledge in order to better understand health and illness, and 2) to examine social and behavioral aspects that contribute to physical health and well-being. Prerequisites: PSY 161 and any 200-level Psychology course. In addition, Research Methods 1(PSY 282) is recommended.  
(Social Science)

### **PSY 386 - Adult Development and Aging (1)**

Cognitive, social, and personality development from early through late adulthood. Themes of continuity and change in examining issues of family, work, gender, biological changes, and death and bereavement. Prerequisite: any 200-level Psychology course. Alternate years.  
(Social Science)

### **PSY 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **PSY 392 - Research Methods II (1)**

Advanced research design with a focus on factorial designs, mixed factorial designs, advanced quasi-experimental, and qualitative research designs. Advanced univariate statistical analyses (two-way ANOVA, two-way repeated measures ANOVA, two-way mixed factorial ANOVA, multiple regression, mediation, moderation, and introductory factor analysis). Execution of all aspects of the research process including a literature search, hypothesis development, data collection, data analysis, and manuscript writing in APA style. Professional and ethical issues will also be addressed. **No S/U option.** Prerequisites: PSY 161, PSY 292, STA 201 or STA 347-STA 348 and a declared major in Psychology.  
(Social Science)

### **PSY 395 - Human Services Practicum and Seminar (1)**

Supervised full-time internship in a human service context and a weekly seminar. Group discussions of current issues in the field such as cultural and gender diversity, ethics, professional practice challenges, and the role of research in practice. Students must provide their own transportation and purchase professional liability insurance through the American Psychological Association. Prerequisites: three Psychology courses, declared Psychology major, junior standing, and permission of instructor. No S/U option.  
(CR)

### **PSY 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **PSY 483 - Senior Seminar (1)**

Each participant chooses a topic within psychology to be explored through periodic presentations and discussion. A paper critically reviewing research and theorizing on the topic chosen. Group discussions of current issues in the field such as gender and cultural diversity in psychology, the balance between research and clinical practice in professional development, and animal welfare. Prerequisites: PSY 392. No S/U option.

### **PSY 485 - Research in Psychology (1)**

Reading in depth on a topic in a selected area and the pursuit of an empirical problem related to the topic. May be repeated for credit to a maximum in both PSY 485 and PSY 511 of three course credits.

### **PSY 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **PSY 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **PSY 511 - Extended Research in Psychology (1/4)**

Reading in depth on a topic of current interest and the pursuit of an empirical problem related to the topic. Must be taken over four consecutive terms.

Maximum number of credits allowed: same as for PSY 485.

(CR)

### **PSY 512 - Reading and Conversation in Psychology (1/4)**

Weekly discussion of articles and topics of interest in psychology. Three meetings per term for four terms, with one or two hours of outside reading in preparation for each discussion. Prerequisite: one college-level course in Psychology.

(CR)

## **Religion**

### **PSY 368 - Advanced Topics: Psychology of Religion (1)**

This course will examine the relationship between psychological/neurological mental states and religion with an intercultural and comparative focus. Students will encounter a variety of literatures that examine the origins of and explanations for mythic and religious experiences, selfhood and the problem of 'other minds'.

(Humanities)

### **REL 101 - Introduction to Religion (1)**

Our course will provide a comprehensive introduction to the study of religion in a college setting. We will examine a variety of topics that inform our understanding of the meaning and place of religion, including sacred place, space, action and time, the relationship of religion to reason, and comparison of practices and beliefs across religious traditions.

(Humanities)

### **REL 101-1 - Introduction to Religion (FYS) (1)**

Our course will provide a comprehensive introduction to the study of religion and the humanities in an academic setting. We will examine the relationship between thought and experience, the meaning of the sacred in space and time, and the function of myth and ritual as means to understand the commonalities and differences in and among human individuals and cultures. SACKS

(FYS)

### **REL 125 - Topic: Magic & the Occult (W) (1)**

An introduction to the place of magic in Western Civilization and beyond, with a focus on its understanding of the natural world, philosophy, theology and the role of human beings in the cosmos. Offered every third year.

(Writing Requirement)

### **REL 222 - Religions of the World (1)**

Comparative survey of the major world religions, including Hinduism, Buddhism, Confucianism, Taoism, Zoroastrianism, Judaism, Christianity, and Islam. Systematic attention to historical interrelations among traditions as well as differences in worldview and the significance of these differences for understanding human nature and culture.

(Humanities)

### **REL 243 - Origins of Israel (1)**

Introduction to the historical development and character of Israelite religion through its representation in Hebrew Scriptures and relationship to neighboring societies of the Ancient Near East. Consideration given to the problem of textual interpretation, as well as to the differences between the traditional and critical approaches to the Bible. Alternate years.

(Humanities)

### **REL 244 - Issues in Hebrew Bible (1)**

Focus on a particular issue or skill in the study of the Hebrew Bible. In the framework of a critical engagement with the Biblical text, the course will focus on issues such as Biblical Hebrew language, religions of the Ancient Near East or archaeology and Biblical history. Particular issue will be specified in the current Course Schedule. Alternate years.

(Humanities)

### **REL 251 - Jesus in the Gospels (1)**

Interpretation of Jesus in early Christian literature, focusing on the theological and historical problems in the Gospels. Alternate years.

(Humanities)

### **REL 252 - The Epistles of Paul (1)**

Life and writings of the apostle Paul, with special attention to the theological controversies that surrounded his proclamation of the Christian faith. Alternate years.

(Humanities)

### **REL 280 - Internship in the Practice of Religion (1)**

Participation in the activities of a religious organization or institution. See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **REL 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **REL 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **REL 324 - The Hindu Vision (1)**

Hindu worldview as embodied and expressed in this tradition's major teachings, rituals, and social practices. Primary focus on such classical texts as the Vedas, the Upanishads, the Bhagavad-Gita, and the Ramayana. Some attention to developments within modern Hinduism, with particular emphasis on the writings of Mohandas K. Gandhi. Alternate years.

(Humanities)

### **REL 325 - The Buddhist Way (1)**

Primary teachings, formative figures, and major movements in the development of Buddhist thought in India, Tibet, China, and Japan. Special attention to the Buddhist understanding of reality, analysis of the human condition, and path to Nirvana or Enlightenment. Alternate years.

(Humanities)

### **REL 326 - The Islamic Path (1)**

Muslim beliefs and practices, theology, law, and rituals in the context of the historical development of Islam into a world religion, with attention to contemporary topics. Alternate years.

(Humanities)

### **REL 327 - Religions of China and Japan (1)**

This course focuses on the character and development of Chinese and Japanese religions. Particular emphasis will be placed on the figures, movements and literature of China's and Japan's "major" religions (Buddhism, Confucianism, Taoism and Shinto) within their regional, social and cultural contexts. Some attention will also be given to NRM's (New Religious Movements) and the reception of "western" philosophy and religion. Offered every third year.

(Humanities)

### **REL 342 - Judaism (1)**

Basic concepts, practices, and worldview of post-Biblical Judaism. Background readings in the history of Jewish people, religion, and thought. Offered every third year.  
(Humanities)

### **REL 343 - Issues in Contemporary Judaism (1)**

Focus on a particular issue or skill in the study of post-Biblical Judaism. In the framework of a critical engagement with the relationship between post-Biblical Judaism and the Hebrew Bible, the course will focus on issues which impact the conception of Jews and Judaism during the rabbinic, medieval and modern eras. Issues which will be addressed will include: Judaism and Islam, modern Jewish philosophy, Kabbalah, or the myth of the "original" Israel. Particular issue will be specified in the current Course Schedule. Offered every third year.  
(Humanities)

### **REL 353 - Christian Foundations (1)**

Original development of some classic ideas of the Christian faith, with special emphasis on the idea of God. Texts will include the writings of such formative figures as Justin Martyr, Irenaeus of Lyons, and Augustine of Hippo, with attention to early Church councils and creedal documents. Offered every third year.  
(Humanities)

### **REL 354 - The Protestant Revolution (1)**

Major figures and movements that contributed to the division of Western Christendom into Protestant and Roman Catholic communities. Primary emphasis on the writings of Luther, Calvin, and the leaders of the English Reformation, concluding with consideration of the activities and writings of John and Charles Wesley, founders of Methodism. Offered every third year.  
(Humanities)

### **REL 356 - Christianity in America (1)**

An examination of several of the central figures and movements in the history of American Christianity, including the ideas and experiences of Protestant and Catholic Christians, conservative and liberal Christians, black and white Christians, and male and female Christians. Offered every third year.  
(Humanities)

### **REL 359 - Issues in Christianity Today (1)**

Focus upon a particular issue that is of concern in contemporary Christianity. Among the issues that may be highlighted are: the question of faith, the problem of evil, modern concepts of God, the reality of religious pluralism, and feminist theological critiques of traditional Christianity. Particular issue will be specified in the current Course Schedule. Not repeatable, even when topic is different. Offered every third year.  
(Humanities)

### **REL 362 - Holocaust and Response (1)**

Social and theological developments in the articulation of Judaism in Europe as shaped by the watershed events of the Nazi Holocaust. Attention to the problem of evil and the claim that basic changes in Jewish and Christian religious understandings are now inevitable. Offered every third year.  
(Humanities)

### **REL 363 - Suffering and the Sacred (1)**

This course examines diverse biblical response paradigms concerning human suffering as found throughout Jewish and Christian traditions. Paradigms we will explore include: Lament and protest as prayer form; redemptive suffering and self-sacrifice; liberation from social/political and psychological oppression; forgiveness; defiant joy as spiritual resistance; and relinquishment or shedding of Ego-mind including amid the pain of spiritual growth known as Dark Night of the Soul. These meaning making responses and coping strategies, as well as hope amid affliction, are undercurrents throughout the course. Includes Liberation Theology (black, womanist, and feminist), Holocaust Theology, and Contemplative/Mystical Theology. Offered every third year.  
(Humanities)

### **REL 367 - Advanced Topics: Lost Christianities (1)**

This course examines the origins of Christianity, with a special focus upon the ancient Christian controversies over authoritative texts, ascetic practices, and beliefs about the nature of Christ and the universe that culminated in the council of Nicaea. This class not only studies the construction of orthodoxy and heresy in both ancient and modern Christianity, but invites students to experience the drama in a competitive role-playing game that (re)creates the council of Nicaea.  
(Humanities)

### **REL 377 - Religion and Literature (1)**

Examination of religious themes in modern literature, including works by such authors as James Hilton, C.S. Lewis, and Bernard Malamud. Offered every third year.

(Humanities)

### **REL 379 - Religion and the Artistic Imagination (1)**

Exploration of relations between religion and the visual arts, applying theoretical or other insights to concrete materials of European artistic tradition or a non-Western culture. Individual or group-directed study based on ART 256 - Italian Renaissance Art (1), ART 257 - Medusa's Gaze: Art/Age of Galileo (1), or ART 266 - American Indian Art: Gender and the Marketplace (1). Details of other readings, testing, etc. to be worked out with instructor. Available by student request. Prerequisites: two Religion courses and permission of instructor.

(Humanities)

### **REL 380 - Internship in the Practice of Religion (1)**

Participation in the activities of a religious organization or institution. See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **REL 382 - Issues in Religious Method (1)**

Focus on a particular issue as it relates to methodology in the study of religion. In the framework of a comparative approach and an engagement with the methods of the discipline, this course will consider such issues as: religion and violence; Messiahs, Gurus and other saviors; and ritual and belief. Particular issue will be specified in the current Course Schedule. Offered every third year.

(Humanities)

### **REL 388 - Seminar in Perspectives on Religion (1)**

Exploration of advanced issues in the study of religion, treating selected theoretical perspectives as they apply to diverse religious traditions. Content will vary from course to course. Emphasis on individual research. Prerequisites: three Religion courses and junior standing. Alternate years.

(Humanities)

### **REL 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **REL 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **REL 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **REL 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **REL 511 - Hebrew Reading Group (1/4)**

Maintenance and development of Hebrew language skills through reading of the Hebrew Bible. Texts selected in consultation with the students participating. Course meets once a week for a semester. Prerequisite: permission of instructor.

(CR)

## **Russian Studies**

### **RSS 181 - Introduction to Russian Culture through Literature and Film (W) (1)**

Examination of works of literature and film that reveal historical and contemporary trends in Russian culture, with an emphasis on Russia's relationship to its past and to other cultures. Conducted in English. Same course as RUS 181. Alternate years.

(Writing Requirement)

### **RSS 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **RSS 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **RSS 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **RSS 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **RSS 384 - Russia Today (1)**

The current scene in Russia. Registration, when the course is taught in Russia, entails additional costs. Same course as RUS 384. Offered subject to availability of faculty.

(CR)

### **RSS 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **RSS 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **RSS 485 - Senior Capstone (1)**

Reading, research, and writing in Russian and in English on a topic developed in consultation with the program advisor. Prerequisites: senior standing and permission of instructor. Same as RUS 485.

### **RSS 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **RSS 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **RSS 501 - Theatre in Russian (1/4)**

Group reading, discussion, and preparation of one or more Russian plays. Rehearsals and performances in Russian. Prerequisites: knowledge of Russian and permission of instructor. Same course as RUS 501.

(CR)

### **RSS 511 - Russian Reading and Conversation Group (1/4)**

Maintenance of Russian language skills through reading and conversation. Same course as RUS 511.

(CR)

## **Sociology**

### **SOC 101 - Sociological Thinking (1)**

Do you wonder why people do the things they do? Why society works as it does? Ever think the world is "unfair"? Sociologists study people in the world, looking at patterns, at differences, at inequalities. Thinking sociologically is like "entering a new and unfamiliar society--one in which things are no longer what they seem." It creates "culture shock without geographical displacement." This course requires us to look at society with a new perspective, to question our taken-for-granted assumptions, to investigate people's actions, and to explore the organization of society. It provides a basis for being engaged citizens, thinking about social alternatives, and imagining possibilities for social justice. Credit may be given for either 101 or SOC 102, but not for both. Not open to seniors without permission of the instructor.

(Social Science)

### **SOC 246 - Gender Diversity (1)**

This course will focus on diverse gender identities, bodies, and social presentations. Social practices and pressures of gender will be examined in order to gain insight into the larger contemporary social meanings of gender. We will explore how individuals interpret and present their gender identities, the constraints on such interpretations and presentations, and the larger social implications of gender diversity and gender regulation on

cultural ideals. This course may count toward the SOC, SAN, or GSS major. Prerequisites: SOC 101, SOC 102 or GSS 171. Alternate years.  
(Social Science)

### **SOC 248 - American Indians: Culture, Activism, and Social Justice (1)**

American Indians: Culture, Activism, and Social Justice Distinctive aspects of Native American tribes and analysis of the ways in which contemporary tribal cultures are influenced by their unique relationship with the federal government. An analysis of treaty rights, the nature of tribal self-determination, and the goals of current tribal activism. Topics covered include tribal efforts to control reservation development, to protect sacred environments, and to preserve tribal cultures. May count toward the SOC, SAN or EST Major. Prerequisite: Writing Requirement (W), ANT 101, SOC 101, SOC 102 , EST 123 or permission of instructor. Alternate years.  
(Social Science)

### **SOC 249 - Traditional Culture and Contemporary Issues in Japan (1)**

This off-campus course, taught in Japan, examines the interconnections between Japanese cultural traditions and contemporary issues. Cultural ideologies, social practices, and public policies related to gender, race/ethnicity, and human rights will be emphasized. Specific topics may include: gender roles; work and family life; intimate relationships; interpersonal violence; birthrate and aging concerns; youth culture and the current challenges faced by young adults; national identity; race/ethnicity, immigration and human rights; historical preservation and urban development; and the juxtaposition of traditional and popular culture. Initial sessions will provide an orientation to enduring historical and cultural foundations and values as well as contemporary issues that inform everyday life in Japan. While in Japan, class members will participate in a variety of activities and discussions; will complete field excursions to historical, cultural, educational, and religious settings; and will read materials relevant to these themes. Students will also explore contemporary culture by observing and interacting with Japanese citizens and hearing from guest lecturers. The course typically includes travel to and within the Kyoto-Osaka (Kansai), Kanazawa, Hiroshima, and Tokyo (Kanto) regions of Japan. May count toward the SOC, SAN or EST Major. Prerequisites: SOC 101, SOC 102 , ANT 101, PSY 161, EST 123, GSS 171, or JPN 102. Same course as PSY 256 .  
(Social Science)

### **SOC 255 - Media and the Public Mind (1)**

An examination of the underlying organization of the broadcast, print, and electronic media and their role in shaping perceptions, ideologies, and behavior. May emphasize the news, advertising, media representations, and the political economy of the media. This course may count toward the SOC, SAN, or GSS major. Prerequisite: SOC 101 or SOC 102 . Alternate years.  
(Social Science)

### **SOC 273 - Families in a Social Context (1)**

This course examines current public debates and social policies related to "The Family" from a sociological perspective, with an emphasis on the complex and diverse family experiences and patterns in the contemporary United States. The course we will explore family meanings, functions, and structures, the ways that the larger social and cultural contexts impact family life, and family-related policy initiatives. This course may count toward the SOC, SAN, or GSS major. Prerequisite: SOC 101, SOC 102 , ANT 208, or GSS 171. Alternate years.  
(Social Science)

### **SOC 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **SOC 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **SOC 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **SOC 314 - Community Organizing, Public Policy, and Social Change (1)**

Communities play various roles in perpetuating and challenging contemporary social problems such as racial segregation, poverty, health disparities, educational inequity, gender/sexuality discrimination, and environmental injustices. Using Chicago as a case study, this course examines contemporary debates and social policies affecting cities; investigates the interplay between policy implementation and local efforts to make change; and explores the role of governments, non-profits, and individuals in addressing inequality. Typically travels to Chicago to meet with local organizations working on social change and policy reform related to urban inequality. Registration, when the course is taught off campus, entails additional costs. Prerequisite: SOC 101 or SOC 102 . Alternate years.  
(Social Science)

### **SOC 315 - Wealth, Power, and Inequality (1)**

Emphasizes the importance of socio-economic class by exploring the meaning and measurement of social class, how social classes are formed, and how they change. Explores issues of social mobility, investigates the relationship between various forms of inequality (i.e., social class, race-

ethnicity, gender, sexuality) and contemplates the role of culture and social institutions, (e.g., work, the health care system, schools, families, the political systems, etc.) in perpetuating, legitimizing, and sometimes challenging social inequality. Prerequisite: SOC 101 or SOC 102 . Alternate years.

(Social Science)

### **SOC 316 - Culture, Meaning-Making, and Distinction in American Society (1)**

Theoretical and sociological investigation of the concept of "culture." Explores the connections between culture, structure, and society as a whole; specifically addresses the ways that symbols, language, and other forms of knowledge work to create meanings, constitute power, and form the basis for understanding social life including relationships, politics, sexuality, and work. Considers the creation and reception of culture; the relationship between culture and inequality; issues of domination and resistance, and the connections between culture and social/historical change. Prerequisite: SOC 101 or SOC 102 and one additional sociology course. Alternate years.

(Social Science)

### **SOC 317 - Reproductive Practices, Reproductive Policies (1)**

This course emphasizes the social construction of female reproductive processes and how culture and institutions shape our understandings and expectations of such processes. Addresses a variety of reproductive practices, experiences and ideologies. Discusses ideas about womanhood, motherhood, fatherhood, sexuality, eugenics, and reproductive freedom; investigates historical role and effect of the state, medical institutions, and women themselves as they struggle over, and shape such issues. The focus will be on the U.S., but we may also look at cases from other countries in order to examine our assumptions about reproductive practices and strategies. This course may count toward the SOC, SAN, or GSS major.

Prerequisite: SOC 101, SOC 102 , or ANT 312. Alternate years.

(Social Science)

### **SOC 320 - Sociology of the Environment (1)**

The course will explore the interactions of human social systems with ecosystems, considering the ways in which people, other animals, plants, land, water, and air are closely interconnected. It will investigate how human consumption and production, along with technology, population, health, and inequalities are interwoven with environmental conditions. It will also study how the cultures, ideas, moral values and social experiences of different human groups, from modern Americans to indigenous populations, influence the way people think about and act toward the environment. Finally, it will contemplate a number of ways in which people might act, both individually and collectively, to bring about a more ecological society. Prerequisite: SOC 101 OR ANT 101 OR EST 123 OR ENV 101. Offered alternate years.

Social Science

### **SOC 343 - Women: Oppressions and Resistances (1)**

Consideration of gender inequality as lived reality and locus of struggle. Topics include: cross-cultural analysis of sexual/racial violence, including violence in war; women's resistances in civil rights, indigenous, development and human rights struggles. This course may count toward the SOC, SAN, GSS, or EST major. Prerequisite: SOC 101, SOC 102 , ANT 101, ANT 271, EST 123, or GSS 171. Alternate years.

(Social Science)

### **SOC 348 - Race and Ethnic Relations (1)**

Various theoretical perspectives on race and ethnic relations, focusing on the United States. Topics include assimilation, ethnic conflict and U.S. immigration policy, the history of the civil rights, treaty rights and migrant farm worker struggles, the social construction of race, and signs of change in contemporary race and ethnic relations. May count toward the SOC, SAN or EST Major. Prerequisite: SOC 101, SOC 102 , ANT 101, or EST 123. Alternate years.

(Social Science)

### **SOC 351 - Advanced Topics: Race & Criminology (1)**

(Social Science)

### **SOC 362 - Criminal Justice (1)**

Analysis of the criminal justice system in the U.S., including consideration of the police, the courts, and correctional institutions. Focus on contemporary problems and reform movements. Prerequisite: SOC 101 or SOC 102 . Offered subject to availability of faculty.

(Social Science)

### **SOC 364 - Deviance and Social Control (1)**

Investigates the ways in which deviance and social control operate in daily life. Considers the "social construction of deviance, " and the ways in which constructions of deviance can lead to inequalities. Also investigates formal institutions of social control such as the criminal justice system/prisons, the mental/medical health field, and the education system. Prerequisite: SOC 101 or SOC 102 . Alternate years.

(Social Science)



### **SOC 365 - Sexualities (1)**

Investigates sexuality as a social phenomenon, focusing on the "social construction of sexuality" or the myriad ways that individuals and societies regulate and attach meaning to emotions, desires, interactions, and relations. Examines the social organization of sexuality, social control over sexual behavior, and the historical and cultural diversity of sexual attitudes, behaviors, identities and signifiers. This course may count toward the SOC, SAN, or GSS major. Prerequisite: ANT 101, SOC 101, SOC 102 , or GSS 171. Alternate years.  
(Social Science)

### **SOC 366 - Gender Differences and Inequalities (1)**

Our ideas about gender organize our social life in important ways that we often do not even notice. These ideas, our gendered interactions, and the gendered dimensions of social institutions are largely invisible to us, and we often take them for granted as the "normal" or natural way life works. Sociology asks us to investigate and expose the aspects of social life we take for granted. In this course, we explore how social interactions, ideologies, and institutions reproduce gender difference and gender inequality, and at times, challenge contemporary gender roles, norms, and stereotypes. This course may count toward the SOC, SAN, or GSS major. Prerequisite: SOC 101, SOC 102 , ANT 271, or GSS 171. Alternate years.  
(Social Science)

### **SOC 367 - Self and Identity (1)**

Examines the construction, negotiation, and representation of the self and social identities. Explores differing theoretical approaches to understanding identity, considers the tensions and conflicts of identification, and investigates the relations between social identities, groups, cultures, and institutions. Identities, cultures, and social movements developed around sexuality, gender, race/ethnicity, disability and other social statuses are examined. This course may count toward the SOC, SAN, or GSS major. Prerequisite: SOC 101 or SOC 102 and one additional sociology course. Alternate years.  
(Social Science)

### **SOC 368 - Sociology of the Body (1)**

This course examines social, cultural and political perspectives on the body, with a focus on body modifications. We will consider material and symbolic aspects of the body; body modifications as social practices; social regulation of bodies, the negotiation of the self within various social conditions, contexts, and ideologies; and the relationship of bodies to gender, class, race/ethnicity, and nationalism. Special emphasis given to the construction of 'normal' bodies (linked to medicine, technology, consumption, and other institutions) as well as the construction of 'deviant' or 'transgressive' bodies. This course may count toward the SOC, SAN, or GSS major. Prerequisite: SOC 101, SOC 102 , ANT 312, or GSS 171. Alternate years. DAVIS  
(Social Science)

### **SOC 370 - Religion, Spirituality, and Community (1)**

Examines the religious experience; the provision of meaning and belonging; religious commitment and conversion; official versus nonofficial or people's religion; religion and the creation of social cohesion; religion and its relationship to social inequality; and religious movements and social change. Topics include women's spirituality in Witchcraft and Spiritualist communities, religious cohesion in Amish communities, the spiritual relationship between humans and the sacred earth in indigenous communities; snake handling and redemption in southern Pentecostal communities, the social and religious dimensions of extraterrestrial contactee communities, and civil rights activism in faith based communities. This course may count towards the SOC, SAN, or REL major Prerequisite: SOC 101, SOC 102 , ANT 101, ANT 210, REL 101 ,REL 222, or Writing Requirement (W). Alternate years.  
(Social Science)

### **SOC 376 - The African American Civil Rights Movement through Film (1)**

Examination of the modern Civil Rights Movement through text and film. Consideration of the development of the movement through social protest and legal action, goals of the movement from integration to Black Power, and factors involved in emergence of the movement including the development of a Western racial worldview and the emergence of anti-colonial movements worldwide. May count toward the SOC, SAN or EST Major. Prerequisite: SOC 101, SOC 102 , ANT 101, or EST 123. Alternate years.  
(Social Science)

### **SOC 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **SOC 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **SOC 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **SOC 483 - Sociological Theory (1)**

Classical theories of social structure and social change, focused on the works of Marx, Durkheim, and Weber. Prerequisites: SOC 101 or SOC 102 , and one 300-level Sociology course. No S/U option.

(Social Science)

### **SOC 484 - Research Design and Data Analysis (1)**

Focus on the logic and procedure of sociological research. Explores the epistemological and methodological principles that form the basis of social research, including developing research questions, forming measurable concepts, determining appropriate research strategies, confronting ethical dilemmas, collecting and analyzing data, and revising theories in light of empirical data. Exploration and evaluation of various research methodologies as well as the development of an independent research project. Prerequisites: two courses in Sociology, including SOC 101 or SOC 102 . No S/U option.

(Social Science)

### **SOC 485 - Readings/Research in Sociology (1/2-1)**

Student-designed individual research in selected areas. Prerequisites: two courses in Sociology, including SOC 101 or SOC 102 . (OP) May be repeated for credit; however, no more than one term of 485 may be counted toward the Sociology major or the Sociology and Anthropology major.

### **SOC 487 - SOC/SAN Senior Seminar (1)**

Course explores current theoretical and methodological issues in the field of sociology, and in the interdisciplinary field of sociology and anthropology through the production of student-designed individual research. Through this capstone experience, students will develop advanced research and writing skills through the completion of an independent research project. The project requires the integration of theory and research/practice through a qualitative or quantitative research report, policy white paper, grant application, internship analysis, and/or some other form of advanced sociological and/or anthropological writing. Prerequisites: ANT 483 or SOC 483, and ANT 484 or SOC 484. No S/U option.

(Social Science)

### **SOC 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **SOC 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **SOC 511 - Extended Research in Sociology (1/4)**

Students will pursue an empirical problem through a new qualitative, quantitative, or mixed methods research project or substantially revise and expand an existing research project. Over the course of four blocks, students will engage in research design and implementation. Course will require 2-3 hours of work per week. Prerequisites: SOC 484 or ANT 484, and permission of instructor.

(CR)

## **Theatre**

### **THE 107 - Stagecraft (1)**

Introduction to methods and materials of building theatrical scenery for production. Students are required to help build scenery for upcoming Theatre Department productions through lab work, utilizing methods learned in classroom component. Stage lighting instruction covers basic electrical theory, functions and properties of light, and hanging and focusing of various theatrical lighting fixtures.

(Fine Arts)

### **THE 108 - Costume Construction (1)**

Introduction to costume construction technology, including sewing, pattern reading and draping, through classroom and laboratory work. A brief survey of dress throughout history and introductory costume design project are included. Students are required to help in the construction of costumes for an upcoming Theatre Department production.

(Fine Arts)

### **THE 115 - Basic Acting (1)**

Study and practice in the essentials of the art and craft of acting. Emphasis will be given to observation, ensemble work, and character development, and all will be explored through scene and monologue study, class activities and performances, and paper/presentation assignments.

(Fine Arts)

### **THE 160 - Fundamentals of Theatre Design (1)**

Exploration of the role and process of design as it relates to theatrical production. Students complete practical exercises in scenic, costume, lighting, and sound design, and learn to critically analyze and respond to design work with the elements of design vocabulary.

(Fine Arts)

### **THE 201 - Play Analysis (1)**

Study and practice of play analysis with an emphasis on exploring the potential for live performance embedded in a written text. Students will learn to employ a three-tiered approach to analyzing plays: textual/structural, dramaturgical/contextual, and creative/intuitive. Offered three out of every four years.

(Fine Arts)

### **THE 206 - Sound Design (1)**

Explores the role of the theatrical sound designer and sound engineer in the design and production process. Course includes understanding the principles and properties of sound, especially as a design element in the theatre; digital and analog recording; and editing, mixing and playback techniques. Projects focus on the challenges and difference in recording, playback, and the use of sound in theatrical settings and configurations. Recommended prerequisite: at least one Theatre production participation credit (THE 750, THE 751, THE 752, THE 753, or THE 754); THE 753 is particularly recommended.

(Fine Arts)

### **THE 216 - Voice and Movement (1)**

Development of vocal and physical vocabularies for the stage. The class will focus on giving specificity and simplicity to the use of voice and body for theatrical expression. Through the use of dramatic texts (both prose and poetry), the incorporation of various techniques, the exploration of the theatrical space, and the study of basic anatomy and physiology, the course seeks to enable the actor to communicate with a greater capacity the energy, life, and limitless possibilities found in story-telling whether spoken through the voice or expressed through movement and gesture.

Prerequisite: THE 115.

(Fine Arts)

### **THE 266 - Drafting for the Theatre (1)**

Instruction in computer-aided drafting for theatre applications. Focuses on scenic and lighting design. Course uses AutoCAD. Alternate years.

### **THE 267 - Stage Make-up (1)**

Design and application of theatrical make-up in a laboratory setting. Practical considerations for performance, aiding character development through careful design, and application of stage makeup some appliqué technique are covered. Alternate years.

(Fine Arts)

### **THE 268 - Scene Painting (1)**

Instruction in the craft of painting for the stage in a laboratory setting. Focus on duplicating texture and pattern for large format viewing, faux finish techniques, and study of light and shadow. Alternate years.

(Fine Arts)

### **THE 269 - Drawing and Rendering for the Theatre (1)**

Studio study of rendering techniques and drawing skills useful to theatrical artists. The course combines instruction in traditional and hand methods with Adobe Photoshop and other digital platforms. Prerequisite: THE 107 or THE 108. Alternate years.

(Fine Arts)

### **THE 280 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **THE 281 - Dance Workshop (1)**

Improvisation, technique, choreography, and historical perspective for beginning dance students. May be repeated for credit. Offered subject to availability of faculty.

(Fine Arts)

### **THE 283 - Musical Theater Dance (1)**

Musical Theater is defined as a form of theatrical performance that combines song, acting, and dance. This course is designed for students interested in increased technical growth, in addition to enhancing qualities of performance through the practical study of musical theater dance. Technical components of this course will include warm-up, diagonal exercises, and center combinations. Students will gain a greater understanding of this

genre through readings, discussions, video viewing, and written analysis.  
Fine Arts

### **THE 290 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **THE 296 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **THE 303 - Scenic Design (1)**

Exploration of the role of the scenic designer in the design and production process. Emphasis on creating an environment for the play based on analysis of the script and utilizing elements of design - line, form, balance, composition, color, etc. Through project work, students explore the uses, problems and practical considerations of proscenium, thrust, and arena configurations. Building upon the principles learned in THE 107 and THE 266, students are expected to have an understanding of basic construction techniques and drafting. Prerequisites: THE 107. Alternate years (alternates with THE 304).

(Fine Arts)

### **THE 304 - Lighting Design (1)**

Exploration of the role of the lighting designer in the design and production process. Emphasis on employing a lighting inventory to develop mood, achieve focus, and provide visibility for theatrical productions, based on analysis of the script and the visual approach to the play. Project work focuses on the challenges and differences in designing lighting for the proscenium, thrust, and arena stages. Building upon the principles learned in THE 107 and THE 266, students are expected to have an understanding of basic lighting equipment and drafting. Prerequisites: THE 107 or THE 160. Alternate years (alternates with THE 303).

(Fine Arts)

### **THE 305 - Costume Design (1)**

Exploration of the role of the costume designer in the design and production process. Building upon skills learned in THE 108 and through script and character analysis, students begin to develop the visual design of clothing for a play using line, color, silhouette, texture, etc. Project work focuses on developing research and rendering skills, as well as budgeting and allocation of costume technology assets. Prerequisites: THE 108 and sophomore standing. Alternate years (alternates with THE 267).

(Fine Arts)

### **THE 310 - Acting Studio (1)**

A studio course that explores certain topics in performance, methodology, scene study, and acting approaches for the advanced theatre student. Such areas of study may include: solo performance, approaches to characterization, acting methodologies, mask work, and the creation of monologue, music, and story-telling repertoires. The course will cover one topic each year and may be repeated providing that the topic is different. Prerequisite: THE 216.

(Fine Arts)

### **THE 311 - Directing I (1)**

Theory and practice of directing with emphasis on the realistic genre. Prerequisites: THE 115, THE 201, declared major in Theatre, and one-quarter credit in a Theatre participation course (THE 715, THE 751, THE 752, THE 753, THE 754); THE 715 is particularly recommended.

### **THE 312 - Directing II (1)**

Advanced directing with emphasis on rehearsal and production procedures. May be taught as a tutorial. Prerequisite: THE 311. Offered upon request.

### **THE 320 - Advanced Topics: Dance History (1)**

This course explores Western dance history, from the 18th to the 21st centuries focusing on evolutions in dance training and technique, theory, composition, and performance practices. These concepts will also be investigated in a context of broader social, political and cultural trends such as European Imperial Courts, Cultural and Industrial Revolutions in Europe and the US, World Wars, Modernism, modernization and postmodernism.

(Fine Arts)

### **THE 321 - Playwriting I (1)**

Techniques of, and practice in, writing scenes or short plays. Prerequisites: THE 115 and writing-designated course (W). May be repeated once for credit with different instructor.

(Fine Arts)

### **THE 332 - Advanced Acting: Stanislavski (1)**

A more advanced study of the work of the actor building on the techniques learned in Basic Acting and Voice and Movement. This class will explore the teachings of Stanislavski while focusing on scene work and scene study through the use of "heightened language" texts and classic playwrights (Euripides, Sophocles, Shakespeare, and Ibsen). Students will be required to present three (3) scenes (chosen by the instructor). All class work and exercises will focus on closely examining the text, embracing the given circumstances, playing an action, building ensemble, and responding to the partner through a detailed exploration of Stanislavski and An Actor Prepares. Prerequisite: THE 216. Alternate years.  
(Fine Arts)

### **THE 333 - Advanced Acting: Meisner (1)**

This course will introduce students to the work of Sanford Meisner and his influence on and method of training for the actor. The work will focus on the concept of the reality of doing through the exercises of Repetitions, Point of View, Independent Activities, and Improvisations which will then be applied to contemporary scene work. Designed as an opportunity to explore more fully the act of listening and responding to a stimulus (both external and internal stimuli) between actors, the work seeks to embrace the concept that acting is living truthfully under given/imaginary circumstances. Prerequisite: THE 216. Alternate years.  
(Fine Arts)

### **THE 346 - Theatre of Ritual, Reverence, Revelry and Revolt (1)**

The history of theatre and its literature from points in history selected from the ancient theatre of ritual through the eighteenth century. Approaching both Eastern and Western forms, the course will cover various theatrical traditions, techniques, audiences, artists and aesthetics. Questions regarding the use of live performance to support or subvert cultural concerns will serve as a thread throughout the course. Methodologies include screenings, readings, individual and group presentations. THE 346/347 do not need to be taken in sequential order. Prerequisites: THE 201 and writing-designated course.  
(Humanities)

### **THE 347 - Theatre of Resistance (1)**

The history of theatre and its literature from points in history selected from the nineteenth century through present day. Approaching both Modernist and Postmodern theories, the course will cover various theatrical traditions, techniques, audiences, artists and aesthetics. Questions regarding the use of live performance to support or subvert social and political concerns will serve as a thread throughout the course. Methodologies include screenings, readings, individual and group presentations. THE346/347 do not need to be taken in sequential order. Prerequisites: THE 201 and writing-designated course.  
(Humanities)

### **THE 348 - Theatre and the Arts in New York City (1)**

The study of American art and culture, focusing particularly on theatrical performance, opera, and dance. Typically includes backstage tours, museum and gallery visits, and workshops with local actors, designers, and other theatre artists. Taught in New York City. Registration entails additional costs. Prerequisite: writing-designated course (W). Alternate years.  
(Humanities)

### **THE 350 - Advanced Theatre Production (1)**

Prerequisites: permission of the Department and appropriate coursework and/or production work to fulfill the project. Available only as a tutorial. May be repeated for credit with the permission of the Department. Offered upon request.

### **THE 374-2 - Advanced Topic: Theatre and the Arts (Chicago) (1)**

The study of American art and culture, focusing particularly on theatrical performance, opera, and dance. Typically includes backstage tours, museum and gallery visits, and workshops with local actors, designers, and other theatre artists. Taught in Chicago at the McLennan Center. Registration entails additional costs. Prerequisite: writing-designated course (W) Alternate years.  
(Humanities)

### **THE 380 - Internship (1)**

See Additional Academic Opportunities, All-College Independent Study Courses 280/380.

### **THE 390 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **THE 396 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **THE 485 - Advanced Study (1)**

Advanced studies in the areas of directing, acting, design, theatre history, speech, or communications media. Prerequisite: permission of the Department. May be repeated for credit. Offered upon request.

### **THE 490 - Independent Study (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses - 290/390/490 Independent Study.

### **THE 496 - Original Project (1)**

See Additional Academic Opportunities. Independent Credit Bearing Courses.

### **THE 715 - The Rehearsal Process (1/4)**

Participation within a semester in one major role in a full-length play or the equivalent.  
(Fine Arts) (CR)

### **THE 750 - General Production Practicum (1/4)**

Practical exploration of the production process in the areas of scenery and prop construction, costuming, lighting, and sound. Requires three hours per week over the course of terms one through four or five through eight. Hours are scheduled with instructor.  
(Fine Arts) (CR)

### **THE 751 - Scenery and Props (1/4)**

(Fine Arts) (CR)

### **THE 752 - Costumes and Make-up (1/4)**

(Fine Arts) (CR)

### **THE 753 - Lighting and Sound (1/4)**

(Fine Arts) (CR)

### **THE 754 - Theatre Administration (1/4)**

(Fine Arts) (CR)

### **THE 755 - Dance Performance (1/4)**

Dance Performance is a course open to students with various dance backgrounds and levels who seek to enhance their technical and performance skills beyond the block format. Class will focus around warm-up, diagonal exercises, and movement compositions. Techniques to be explored in this course include, contemporary modern, jazz, and classical ballet.  
Fine Arts

### **THE 756 - Acting Ensemble (1/4)**

Acting Ensemble is a semester long course designed to provide mentored studio time for actors. Topics may include monologue preparation, scene work, current professional issues, or other topics as suggested by the ensemble. The course will meet twice per week as determined by the faculty and ensemble.  
Fine Arts

### **THE 964 - Chicago Arts Semester (1)**

see Cornell-Approved Domestic Off-Campus Programs.

## **Other Courses**

### **THE 100 - Lighting Design: Designing and Programming with Intelligent Fixtures (1)**

Participants will design, draft, and implement a light plot using conventional, moving light, and LED fixtures and then individually cue a piece of popular music on the stage. Students will learn to program and develop skills on the ETC family of consoles after exploring their design virtually through Capture and the NOMAD offline editor. Designed for introductory and intermediate level lighting students. (Fine Arts) (Part of Cornell Summer Institute: For High School Students Only)