

Course Descriptions

ANTHROPOLOGY

ANT 150 (3 credits)
Introduction to Social Anthropology

Provides an introduction to a variety of key areas of anthropological inquiry, such as kinship, religion, and political and economic anthropology. Anthropologists strive to understand cultures around the world in their own context. Exploring cross-cultural universals and differences, the course encourages a broader appreciation of other cultures and also gives students a new perspective on their own.

ANT/SCL 203 (3 credits)
Beginning Social Research

Familiarizes students with the basics of social research: the formulation of research questions, the structure of research projects, the most common types of social research methodologies, the use of new technologies in social research, and simple analysis of qualitative and quantitative data. *Prerequisites: Any 100-level social science course and MTH 100 or equivalent.*

ANT/SCL 309 (3 credits)
Researching Social Life

Examines the methods commonly used by sociology and anthropology, stressing that methods are dictated by the kinds of questions being asked. The advantages and disadvantages of statistical surveys, participant observation, historical research, and textual analysis are examined. The course introduces students to important online resources and the use of analytical tools. *Prerequisite: SCL/ANT 203 or equivalent.*

ANT 386–399 (3 credits)
Special Topics in Anthropology

An advanced course on a topic of current interest or in a faculty member's specialty.

ART, DESIGN, AND MEDIA

ADM 103 *London and Florence* (3 credits)
Introduction to Drawing

Students are introduced to many types of drawing and work from still life, natural forms, and the life model. This course encourages experimentation in the two-dimensional representation of form, space, structure, and texture. Students learn to observe more closely through the discipline and thus to appreciate art more fully. When offered in Florence, this course is taught in English and Italian.

A studio fee is levied on this course.

ADM 106 (3 credits)
Introduction to Photography

For students with little or no experience in the technical aspects of photography. It concentrates on using the 35mm correctly and creatively and evaluating results through developing film and making prints in the darkroom. By the end of this course, each student is able to produce a small portfolio of work. *A studio fee is levied on this course. Students should provide their own manual 35mm camera.*

ADM 110 (3 credits)
Introduction to Spatial Design

Introduces students to the uses and manipulation of spaces in sculpture, product design, architecture, and interior design. It also studies various standard ways of expressing and encoding/decoding space for art and design needs. The course considers how space can be calculated and measured, the relationships between distance and size, linear and aerial perspectives, technical drawing, and the use of scales and projection. The majority of the coursework is conducted through the medium of drawing, but projects using other media may be included. *A studio fee is levied on this course.*

ADM 111 (3 credits)
Introduction to Printmaking

Explores a variety of relief and experimental printmaking techniques. The course is intended to investigate linkages between drawing, photography, and computer graphics as well as to establish sound basic skills in printmaking techniques. *A studio fee is levied on this course.*

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- ADM 112 (3 credits)**
Making Your Mark
- Explores the relationships between the self and others, between one's own culture and foreign cultures, and between one's own time, the past, and the future. The course is particularly concerned with practical creative production and introduces students to the expression of their ideas through a variety of media, notably drawing, photography, and printmaking. While the course is designed to demonstrate the interconnectedness of the graphic media, its primary goal is to establish the primacy of ideas in any creative production.
- ADM 113 (3 credits)**
Cycling the Square
- Explores the nature of measurement, structure, and organization in art and design. The course is particularly concerned with practical creative production and introduces students to the expression of their ideas through a variety of media and processes, notably drawing and basic design. While the course is intended to enable students to explore the interconnectedness between 2-D and 3-D modes of expression, its primary goal is to establish the primacy of ideas in any creative production. *A studio fee is levied on this course.*
- ADM 140 (3 credits)**
Introduction to Ceramics
- Introduces practical studio skills in ceramics. Students work on a number of projects in pot-making and ceramic sculpture and also learn some of the standard methods of ceramic decoration. Students learn how ceramics are glazed and how work is processed in the electric kiln. *A studio fee is levied on this course.*
- ADM 210 (3 credits)**
Stamping Authority
- A course concerned with the study of color, the development of discrimination, the use of technology, and the use of art and design as a persuasive vehicle. It features an interplay between practical and theoretical studies and involves work in printmaking and photography. *A studio fee is levied on this course.*
- ADM 211 (3 credits)**
Developing Spaces
- Adopts a cross-disciplinary approach to the study of the use and understanding of space in art and design. It also introduces the disciplines of three-dimensional spatial design, computer-aided 2-D drafting and 3-D modeling, and drawing applications for structural and design communication. *A studio fee is levied on this course.*
- ADM 215 Florence only (3 credits)**
Introduction to Painting
- The figure is studied as a vehicle for developing the ability to distinguish the essential qualities of natural form in order to produce the illusion of volume, space, and movement on a two-dimensional surface. Students are assisted in developing a sense of structure and composition.
- ADM 218 Florence only (3 credits)**
Introduction to Sculpture
- Basic studies of three-dimensional art and the technical problems involved. Although various materials may be used, the emphasis is on clay and plaster media. In the field, students explore the relationship of sculpture to architecture and the environment. Taught in English and Italian.
- ADM 251 (3 credits)**
The Language of Art
- A discursive, topic-based course designed to familiarize the student with the range of ideas, the varieties of form, the uses of imagery, and the nature of content in the visual and performing arts. The material is considered from a practitioner's viewpoint.
- ADM 303 Florence only (3 credits)**
Drawing I
- Develops drawing skills and provokes and stimulates thinking about both the technical and intellectual aspects of the drawing process. A developing understanding of the vocabulary and syntax of drawing is encouraged through projects that feature observation, analysis, and expression. Students work from studio subjects and on location and are expected to undertake museum study. *A studio fee is levied on this course.*
- ADM 304 Florence only (3 credits)**
Drawing II
- A continuation of ADM 303. Taught in English and Italian.

ADM 309 Florence only (3 credits)
Painting I

Combines studio practice in drawing and painting with discussions and demonstrations on style, technique, color, compositional ideas, paint composition, and chemistry. Students are encouraged to discuss their work as a means of clarifying their objectives. Figurative or abstract idioms may be pursued. *Builds upon the foundations laid in ADM 215. A studio fee is levied on this course.*

ADM 310 Florence only (3 credits)
Painting II

An extension of ADM 309, structured around specific painting projects set to develop the range and technical competence of the student. Professional painting techniques are demonstrated and there are discussions of such topics as style and composition. *Prerequisite: ADM 309. A studio fee is levied on this course.*

ADM 323 (3 credits)
Photography: Theory and Practice

Intended for students with modest or no background in the history, theory, and practice of black-and-white photography. It is designed to familiarize students with skills that combine visual research, photographic composition, camera operation, and printing, together with conceptual ideas, especially those of narrative photography. Students provide their own film and photographic paper. *A studio fee is levied on this course. Students should provide their own manual 35mm camera.*

ADM 325 (3 credits)
Studio Photography

A studio-based course in studio lighting (tungsten and flash), the medium format camera (Hasselblad 6cm x 6cm), and effective studio-based image-making. Demonstrations are followed by student projects in the main areas of still life and portraiture. Negative and positive, Polaroid, and black-and-white and color film are employed. A three-hour workshop accompanies this course. Students provide their own film and photographic paper. *Prerequisite: ADM 323 or equivalent. A studio fee is levied on this course.*

ADM 326 (3 credits)
Video Production

A "hands-on" course for students new to video, involving most aspects of production from camera work and sound recording to editing and audio dubbing. The theory and practice of video technology are taught through a series of group exercises and out-of-class assignments. Students also

study a range of classic videos and films as a means of understanding the language of the medium. *A studio fee is levied on this course.*

ADM 330 (3 credits)
Exploring Paint Media

Combines study of pigments and various water-, acrylic-, and oil-based media, their uses and technical characteristics with studies of style, composition, color theory, and visual appearance. Students undertake a number of practical projects designed to enable them to explore aspects of theory and the potentialities of paint and color, both as ends in themselves and as components integrated into work in other media. Discussion and the sharing of ideas and perceptions are an important part of this course. *A studio fee is levied on this course.*

ADM 332 (3 credits)
Color Photography

Intended for students who already have an understanding of the camera and basic technical principles of photography. It introduces students to the major modern processes in color photography (C41, E-6, C-type printing) and affords them the opportunity to develop a proficiency in these processes. Students learn about contemporary practitioners, notions, and issues regarding both the esthetics and conceptual ideas related to color photography. Students provide their own film and photographic paper. *Prerequisite: ADM 323 or equivalent. A studio fee is levied on this course. Students should provide their own manual 35mm camera.*

ADM 335 (3 credits)
Photojournalism and Publication Layout

Concentrates on the reportage area of photography, using both conventional and digital equipment. Students learn about the history, nature, and techniques of photojournalism by studying the work of eminent practitioners, and by designing, shooting, printing, and laying out a number of documentary style projects. This course is recommended for communications, journalism, and social science students as well as photographers. *Prerequisite: ADM 323 or equivalent. A studio fee is levied on this course. Students should provide their own manual 35mm camera.*

ADM 339 (3 credits)
Advertising Graphics: Theory and Practice

This course looks at advertising in its many forms, ranging from advertising campaigns that appear on billboards and television to product packaging on supermarket shelves. Both successful and unsuccessful campaigns are

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considered. While analyzing the processes of consumer appeal and marketing effectiveness, students work on a series of design briefs centered around a variety of current products, promotions, and services.

Prerequisite: ADM 362 or equivalent.

ADM 341 Florence and Rome only (3 credits) **Photography for the Media**

Recommended for communications and journalism majors as well as photographers, this course develops knowledge and experience in photojournalism by studying the work of major practitioners and designing and shooting projects. Projects are produced on transparency film in color. Students need to provide a 35mm camera with manual controls, slide film, and processing fees. There is a \$60 fee for developing. Students do not have the use of a darkroom. *A studio fee is levied on this course.*

ADM 361 (3 credits) **Off the Wall**

Examines the changes brought about in art production and display by the development and popularization of Time-Based media (video), Sound Art, and the Installation form. The course considers some of the works, including their conceptual underpinnings, created by a cross section of important artists working in the areas of video, sound, and installation. Using that information as a spring board, students then make art work which develops both their conceptual and their practical skills in the areas of video, sound, and installation. *Prerequisite: Junior status. A studio fee is levied on this course.*

ADM 362 (3 credits) **Pixel Playground**

The course looks at the different ways in which computers are used by artists and designers. It introduces students to a range of two-dimensional software packages and places them within a practical and conceptual context. It invites students to analyze current advertising, magazine layouts, and corporate imagery, and this will form the basis of a number of graphics assignments. No previous experience with design or computers is necessary for this course, which is a prerequisite for all other digital courses in the ADM major.

ADM 372 (3 credits) **Web Design**

The World Wide Web is one of the most dynamic communication tools of our era. This course looks at examples of past and present web sites and screen based design. It teaches students to critically engage with sites that exist on the web and also to learn the technicalities

and art of designing and producing their own web site. By the end of the course, each student will have produced an individual site ready for publication.

Prerequisite: ADM 362.

ADM 378 (3 credits) **Compositions in Interactive Media**

This course is intended for Art, Design, and Media majors, Communications students, and others interested in interactive media. It will introduce students to a multidisciplinary environment where interactive design and time-based media fuse and it will provide students with key technical skills to produce an interactive CD-ROM. Students will be introduced to the work of contemporary artists who use the equivalent media and will be encouraged to investigate digital video and interactivity within contemporary practices in a commercial or non-commercial environment.

Prerequisite: ADM 362.

ADM 386–397 (3 credits) **Special Topics in Art, Design, and Media**

An advanced course on a topic of current interest or in a faculty member's specialty.

ADM 402 (3 credits) **Going Public**

Examines various professional strategies as aspects of the practice of art in the public realm. The focus of this course is on identifying and developing skills necessary to make the transition from being a student of art to a practicing artist engaged in the professional world. Various sites and related strategies are explored with the understanding that, in order to thrive and indeed survive as a practicing artist, one must be able to present one's work and represent one's practice to an assortment of individuals and institutions, including museums, magazines, galleries, writers, dealers, designers, and critics. This course takes a realistic, though critical approach toward the mechanisms of self-promotion that have developed in recent years as art and the creative industries have been subsumed within the culture of the image, celebrity, and entertainment. The thrust of this course is concerned with developing practical skills, while at the same time, attention is paid to the fact that one must appreciate and understand the public realm critically if one is to be able to swim in those waters. *Prerequisites: ARH 351 or permission of instructor.*

ADM 404 (3 credits)
Constructing the Digital Image

This course explores the creative possibilities of combining Photoshop and photographic techniques in the creation and construction of an image. Students will use digital hardware, including digital cameras, scanners, printers, and film writers. The resulting images will then be output onto film and printed in the color darkroom.

Prerequisites: ADM 362, ADM 323, ADM 332, ADM 335, or equivalent.

ADM 406 (3 credits)
Advanced Graphics

This course aims to deepen and broaden a student's understanding and experience of graphic design work. It aims to develop both their theoretical grasp of the subject and their practical response to a number of specific briefs. Emphasis is placed upon creative ability, individual professionalism, and self-sufficiency. Students are expected to become increasingly self-critical within their work while developing their own visual language with which to express their design solutions. *Prerequisite: ADM 339.*

ADM 418 (3 credits)
Printmaking Workshop

Intended for students who have acquired graphic skills in drawing, life drawing, illustration, and computer graphics or who have experience of photographic printing. It aims not so much to give in-depth knowledge of particular printmaking processes as to stimulate a creative response to all areas of image making that involve printing. The course is practical in nature, although museum and gallery study as well as some reading is assigned relating to the techniques that are explored in class. *A studio fee is levied on this course.*

ADM 438 (3 credits)
Contemporary Visual Culture I

Through theoretical and empirical insights into our image-based culture, this course deals with the multifariousness of contemporary visuality. It views traditional and media-generated images taken from various areas (art, design, film, print, photography, video, computer) in the context of urban life today. In a program of gallery visits, talks with artists, and theoretical discussions, students learn about visual representation and various ways of encountering the complexity of imagery in the twentieth/twenty-first century.

ADM 447 (3 credits)
From Script to Screen

Intended for students who have experience of video production and want to expand their knowledge and skills. Students will create and produce a video, starting from the inception of the idea through to the realization of the idea as a finished film to be screened at the end of the course. Focusing on the journey from having an idea for a film through to writing a high spec script, students will learn how drama is represented in the written form, analyze and explore scripts from existing films and other forms of drama, and learn more about the film and TV industry and the place of screenwriting in it. In doing so, students have the opportunity to try the different 'parts' of film-making, from the creative and theoretical - writing, story boarding, workshopping, casting and directing, to the technical - camera operation, sound recording and video editing. *Prerequisite: ADM 326 or submission on video or DVD of a videofilm made by the applicant. Can be in any genre, but must demonstrate the ability to use a video camera and basic skills in sound recording and editing. A studio fee is levied on this course.*

ADM 448 (3 credits)
Contemporary Visual Culture II

This course continues the work undertaken in ADM 438. Further contemporary theory is studied and its relevance to the understanding of current visual, sound, and performance arts is explored by focusing on a variety of exhibitions and events available during the semester in London venues. *Corequisite: ADM 450.*

ADM 450 (3 credits)
Fourth Bridge: Art, Design, and Media Projects

Provides an opportunity for senior students to bring their various skills and ideas together and focus them on an ambitious project devised by themselves. These pieces are expected to be thought through, well-structured, and technically competent. Upon completion, the work is exhibited and serves as a capstone presentation. Students work under the supervision of a course coordinator and may also be assigned to a specialist technical advisor. This course should be taken in conjunction with ADM 448 Contemporary Visual Culture II, the purpose of which is to develop the student's understanding of contemporary art theory and critical studies. *Prerequisite: Senior status or permission of the instructor. Students purchase their own materials.*

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ADM 483 (3 credits)
ADM 486 (6 credits)
ADM 489 (9 credits)
Internship in Art, Design, and Media

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. *Prerequisite: Senior status and permission of adviser.*

ADM 497 (1 credit)
ADM 498 (2 credits)
ADM 499 (3 credits)
Independent Study in Art, Design, and Media

Independent study is an individual research or creative arts project, taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

ART HISTORY

ARH 105 (3 credits)
Introduction to Western and Non-Western Art

Focuses on key “moments” of cultural interaction prior to 1800. Topics include: the impact and integration of Christianity and Buddhism into Western and non-Western culture and its representation in visual culture; cultural rediscoveries and cultural interaction (such as the Renaissance); colonialism and the exploration of “new worlds.” Students critically examine constructs of tradition, the primitive, and the orient. The course includes museum visits to introduce students to a wide range of art of from antiquity to 1800.

ARH 205 (3 credits)
Western and Non-Western Art from 1800

Introduction to nineteenth- and twentieth-century art, focusing particularly on the interaction between different cultures. Critically examines the ways in which contact with non-European cultures affected the development of modern European art, as well as considering the impact of European travelers on indigenous artistic practices around the world. Major topics include orientalism, primitivism, and recent multicultural tendencies in the visual arts. The course includes museum visits to introduce students to a wide range of art.

ARH 273 *Viareggio and Siena only* (1 credit)
Introduction to Italian Art

Designed to introduce the student to the history of several periods, this course traces the developments in painting and sculpture that led up to the Renaissance. It is taught partly in Siena and, to a greater extent, during the field study visits to Rome, Sorrento, and Venice. A field project paper is required.

ARH 317 *Florence only* (3 credits)
Italian Fashion

Students trace the birth, evolution, decline, revival, and most recent developments of Italian fashion from the late Gothic Age to the present “made in Italy” design. Italian fashion styles are decoded in relation to art history in an international, social, and economic context. Fashion and its connections with culture, subculture, gender, and communication are emphasized. On-site visits also illustrate the dominant role of Florence in fashion, from its origins until now.

ARH 321 *Rome only* (3 credits)
Baroque Rome and Its Monuments

Begins by studying the emergence of baroque art in the late *cinquecento* and early *seicento*, and then examines the further developments of the baroque style in mid-to-late *seicento* sculpture, painting, and architecture. Much of the course is taught on site in Rome.

ARH 322 *Rome only* (3 credits)
High Renaissance Art

Examines fully the High Renaissance style in Rome and Florence, primarily through the works of Leonardo, Michelangelo, and Raphael. Developments in other cities such as Venice are investigated, as are other leading artists of the period. The course is taught on site as much as possible.

ARH 323 *Florence only* (3 credits)
Masters of the Renaissance: Leonardo da Vinci

Examines the extraordinary variety and complexity of the work of Leonardo da Vinci. A central concern of this course is the use and examination of Leonardo's work as a lens whereby students can explore science, anatomy and the human body, portraiture, perspective, and religious painting in the fifteenth and early sixteenth centuries. The course is taught largely on-site in and around Florence and includes a trip to Vinci (Leonardo's birthplace) and a visit to Milan to view *The Last Supper*.

ARH 324 *Rome only* (3 credits)
Michelangelo in Rome

The works of the Renaissance master, his sculpture, painting, architecture, and literary production. His works are investigated within the specific historical context, focusing on issues of commission, iconography, censorship, biography, historiography, and esthetics. Beyond a complete comprehension of Michelangelo's work, the course aims toward a mastery of art historical research skills, the evaluation of current scholarship, and independent critical thought on art.

ARH 349 (3 credits)
British Art and Architecture

Considers British painting, sculpture, architecture, and interior design of the eighteenth and nineteenth centuries, in their cultural, social, and political context. Major topics include: the public and the domestic sphere; Georgian architecture; gender and representation; art and the Industrial Revolution; travel and the expansion of empire; the country and the city. Regular visits to museums, galleries, and buildings to discuss works on site.

ARH 351 (3 credits)
**Museums and Galleries of London:
The Cultures of Display**

Considers the nature of museums and art galleries and their role and function in our society and culture. Students study the workings of the art market and a variety of other topics that impinge upon it, such as conservation, restoration, the investment potential of art, and art world crime. Students visit many of the great London collections as part of this course. A thorough university-level survey of the history of international art is strongly recommended as a prerequisite. This course is designed for students with a major in Art History or for those interested in careers in museum or gallery work.

ARH 352 (3 credits)
Art in Context

An introduction to major art historical themes, methods, and approaches. Through a range of media, it focuses on landscape, representation of gender, portraiture, the nude, and history and genre painting, and considers also the role of advertising. Recommended for students who have reached their junior year without taking ARH 105 Introduction to Western and Non-Western Art and ARH 205 Western and Non-Western Art from 1800. Also strongly recommended for visiting students who wish to take an art history elective. Weekly visits to museums, galleries, and exhibitions provide an opportunity for students to test theories put forward in class in front of original art works.

ARH 356 (3 credits)
Italian Renaissance Art

Examines Italian Renaissance art, with special reference to collections held in London. It complements Italian Renaissance courses offered at Richmond's Florence study center. Focuses on painting, sculpture, and graphic media. Considers the contemporary cultural, socio-economic, and political context for the production of art and critically investigates relevant art historical methodologies.
Prerequisites: At least two 200-level art history courses or permission of instructor.

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ARH 359 Florence only (3 credits) **Modern Italian Art I**

Examines the development of the most important Italian art movements from the nineteenth century to the futurist period. Italian divisionism and the avant-garde futurist movement are studied and discussed. Painting and sculpture are examined as products of the whole Italian and European cultural and social environment and analyzed in their specific literary, philosophical, and musical context. Visits to the Gallery of Modern Art at Palazzo Pitti and to local galleries and exhibitions are also part of this course.

ARH 360 Florence only (3 credits) **Modern Italian Art II**

The major Italian metaphysical and cubist artists, such as C. Carra, De Chirico, and Savinio, are studied along with other famous artists like Modigliani and G. Morandi. The most important avant-garde movements and the abstract artists from Milan are analyzed in relation to modern European art and its social and cultural context. In addition, visits to local artists' studios, galleries, and exhibitions are arranged in conjunction with instruction.

ARH 364 (3 credits) **Modern Art: The Age of Impressionism**

Offers a critical consideration of European art between 1848 and 1900, examining the emergence of new pictorial forms and strategies during a period of political, cultural, and economic upheaval. Concentrating primarily on the first great modern metropolis, Paris, the course addresses a series of key issues: the representation of the city and its suburbs; images of women; and orientalism. Major topics include Realism, Impressionism, Post-Impressionism, and Symbolism. Visits to museums and galleries introduce students to London's rich collections of nineteenth-century art.

ARH 365 (3 credits) **Twentieth Century Modernism**

Examines the major artistic movements of the twentieth century, giving particular emphasis to the relationship between modernism's radical rethinking of pictorial and cultural traditions and the new social and ideological formations which characterize modernity. Major topics include Fauvism, Expressionism, and Cubism; the international avant-gardes; post-war American art; recent developments in contemporary art; and the critical issues of gender, national identity, and the representation of race in the visual arts. The course includes museum visits to take full advantage of the rich public collections of modern art in London.

ARH 378 Florence only (3 credits) **Central Italian Romanesque and Gothic Art**

Examines the important achievements of the early Renaissance in Romanesque and Gothic architecture, sculpture, and painting by reference to major central Italian cities, especially Florence, Pisa, Siena, Lucca, Orvieto, and Rome between the years 1000 and 1400. The artistic developments of the time are viewed in the light of the intense rivalry of the city-states. Among the artists covered are Nicola Pisano, Giovanni Pisano, Arnolfo di Cambio, Andrea Pisano, Cimabue, Pietro Cavallini, Duccio, Giotto and his Florentine followers, Simone Martini, and Pietro and Ambrogio Lorenzetti. There is an optional field trip to Pisa and Lucca.

ARH 380 Florence only (3 credits) **Central Italian Early Renaissance Art**

Focuses in depth on the *quattrocento* in Florence and central Italy. Special attention is given to the time of Lorenzo de Medici, the Magnificent, who is viewed as the central personality in a "golden age" of Florentine art and culture. Much of this course is taught on site in Florence. There is an optional field trip to Arezzo, San Sepolcro, and Urbino.

ARH 381 Florence only (3 credits) **Central and North Italian High and Late Renaissance Art**

Examines fully the High Renaissance style in Florence and Rome and traces the development of this style in north Italy, especially Venice. Students study the works of Leonardo, Michelangelo, and Raphael in Florence and Rome. The latter part of this course follows the further development of the ideal classicizing High Renaissance style in the works of the Venetians: Giorgione, Titian, Veronese, Tintoretto, and Palladio. Much of this course is taught on site.

ARH 396 (3 credits) **Special Topics in Art and Architecture**

Focuses on a selected topic in art and architecture. Course topics may relate to previous courses on offer, or they may be determined by a current exhibition, or they may consider issues in contemporary art practice in relation to the representation of race and gender.

Prerequisites: At least two 200-level art history courses or permission of adviser.

ARH 412 (6 credits)
Colonialism, Orientalism, and Primitivism

Examines visual representations associated with cultural relationship springing from Britain's colonial history, and Western constructs of the "primitive" and of the Orient. Beginning with colonial enterprises in the eighteenth and nineteenth centuries, the course traces the significance of constructions of "the other" and the relevant impact on visual arts. Moving into the twentieth century, notions of alterity based on orientalist representation provide further links to modern art. *For Art History seniors only.*

ARH 424 (2 credits)

ARH 434 (2 credits)

Senior Essay I and II

All art history majors are required to produce a major piece of independent written work during their senior year. Work on these senior essays normally extends across the whole senior year and is undertaken under the supervision of a designated member of the art faculty. Essays are normally around 7,000 words and must be presented as typed and fully footnoted manuscripts. Essay topics may be selected from any area of study within the University's art history curriculum. *Prerequisite: Senior status or permission of adviser. Corequisites: ARH 452 and ARH 453.*

ARH 450 (3 credits)
Postmodernism in Visual Art and Culture

Introduces students to the diversity of artistic practices in the period from the 1960s to the late 1990s. It considered Pop Art's dialogue with mass culture, the development of Minimal and Conceptual Art, and the emergence of a postmodern sensibility and theoretical framework. Key questions include the status of historical memory; explorations of cultural identity; the changing conception of the avant-garde; and the critique of the art object and art market. *For Art History and Sociology seniors only.*

ARH 452 (1 credit)

ARH 453 (1 credit)

Senior Essay Seminar I and II

Introduces students to research techniques and methods of visual research, and also provides a forum for students to explore research issues and problems. Invited experts will comment on student research papers. *Prerequisite: Senior status or permission of adviser. Corequisite: ARH 424 and 434.*

ARH 454 (3 credits)
Victorian Art and Society

The divergent tendencies seen in the arts of the Victorian epoch are examined in the light of social, economic, and political change in the nineteenth century. The literary and architectural aspects of "revivals," the idealization of medieval spirituality by the Pre-Raphaelite Brotherhood, the pragmatism of a developing technological society, and the cultural impact of religious movements are considered.

ARH 483 (3 credits)

ARH 486 (6 credits)

ARH 489 (9 credits)

Internship in Art History

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 75 credits with a minimum GPA of 2.75. *Prerequisite: Senior status and permission of adviser. Corequisite: ARH 424.*

ARH 490–495 (3 credits)
Special Topics in Art History

An advanced course on a topic of current interest or in a faculty member's specialty.

ARH 497 (1 credit)

ARH 498 (2 credits)

ARH 499 (3 credits)

Independent Study in Art History

Independent study is an individual research or creative arts project under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this requires research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

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MASTER OF ARTS IN ART HISTORY (Graduate Students Only)

ARH 509 (3 credits) Research Methods for MA Theses

In a general sense, this course introduces students to the research seminar and to discipline-related methodologies and the logistics of research. More specifically, it aims to assist students in the planning and organization of thesis research. As well as faculty and student presentations, invited speakers will present an aspect of their research in progress to familiarize students with the processes of advanced research. In addition to complementing the methodology courses, this seminar assists students with the identification of their own interests as they move toward choosing a thesis topic.

ARH 512 (6 credits) Colonialism, Orientalism, and Primitivism

Examines visual representations associated with cultural relationships springing from Britain's colonial history, and Western constructs of the "primitive" and of the Orient. Beginning with colonial enterprises in the eighteenth and nineteenth centuries, the course traces the significance of constructions of "the other" and the relevant impact on visual arts. Moving into the twentieth century, notions of alterity based on orientalist representation provide further links to modern art.

ARH 526 (3 credits) Art History Theories and Methods

Explores a range of art historical methodologies, as well as the more traditional methods associated with formal analysis and connoisseurship (formalist, biographical, and iconographic). Students consider approaches that have developed in the last twenty-five years and which engage with the social history of art, gender studies, and theory and representation. Students examine a variety of texts as strategies for determining and analyzing different methodologies.

ARH 536 (3 credits) Approaching Art across Cultures

Addresses issues that relate to the perception and representation of race and to the making and display of primarily non-Western art. Students are encouraged to investigate issues that relate to reading across cultures, and consider the issues surrounding the colonial encounter and the representation of indigenous peoples. Various constructions of identity and difference are examined.

ARH 602 *Florence only* (3 credits) Renaissance I

Rather than attempting a survey of Italian Renaissance art, this course focuses on groups of artworks, including architecture and town planning, taking into account specific issues at the forefront of recent research. Students learn appropriate methods of analysis of art objects as well as critical approaches to both recent and foundation literature.

ARH 604 *Florence only* (3 credits) Colonialism, Cultural Interactions, Art, and Exploration

Interculturally oriented course complementing the core Colonialism course. It focuses on the fifteenth and sixteenth centuries and the role that Florence played in the development of science, geography, and cosmography in the fifteenth and sixteenth centuries, both at a theoretical and a practical level. Students also consider the relationship between art and exploration and the emergence of European colonialist views (both visual and literary) of the East (Africa and India) and West (the Americas).

AH 612 *Florence only* (3 credits) Renaissance II

Complements ARH 506 Seminar in Art History Methodology I, ARH 602 Renaissance I, and ARH 614 Post Modernism. It approaches the Renaissance from a critical method rather than from an epistemological perspective. In tandem with a methodological focus, students consider key ideas and areas of investigation, so that an examination of the approaches adopted by Baxandall and Martindale also initiates discussions of the making of the character of the artist, the rise of academies, the emergence of an investment market, and attitudes to science and mathematics.

ARH 620 (3 credits) Nineteenth Century Modernisms

During the later nineteenth and early twentieth centuries, a range of cultural and ideological patterns emerged which constituted the ground of what we now recognize as cultural modernity. The course is directed toward a consideration of the ways in which artists grappled with representation, the ways in which they sought to develop pictorial forms and strategies capable of capturing their experience of this new social formation. Themes explored include: issues of representation, realism, and abstraction; the gendered nature of modernity; constructions of

national and cultural identity; and the West's repeated attempts to produce a stable and productive imaginary of the other.

ARH 621 (3 credits)
Twentieth Century Modernisms

Examines the history and theory of modern art practices from the late nineteenth century to the 1960s. After an introduction to key concepts of Modernism developed in the early years of the century (Fauvism, Cubism, Expressionism), students explore in detail the development of Dada, Futurism, Constructivism/Suprematism, and Surrealism as a series of artistic responses to war and revolution in the Weimar Republic, Italy, revolutionary Russia, and France. Throughout the course, students engage with a range of historical and methodological questions: the relationship between modernism and the emerging mass cultural formations of industrialized Europe, America, and the former USSR; the utopian projects of the avant-gardes; the transformation of constructions of the "other"; and the formation of new audiences.

ARH 624 (3 credits)
Postmodern Visual Art and Culture

Introduces students to the diversity of artistic practices in the period from the 1960s to the late 1990s. It considers Pop Art's dialogue with mass culture, the development of Minimal and Conceptual Art, and the emergence of a postmodern sensibility and theoretical framework. Key questions include the status of historical memory; explorations of cultural identity; the changing conception of the avant-garde; and the critique of the art object and market.

ARH 693 (3 credits)
ARH 696 (6 credits)
Thesis Research

For students working independently on their Masters thesis. Here students apply the skills learned in ARH508, from the early research and writing of the thesis through to its completion. These courses are comprised of intensive and regular meetings on a one-to-one (by appointment) basis with the thesis supervisor to discuss the progress of research and writing. The supervisor will provide comments on draft chapters of the thesis, offer advice on the research and writing process, and also suggest resources (from readings and visual data, to other documentation and www resources) and research directions for the thesis.

BUSINESS ADMINISTRATION

ACC 201 (3 credits)
Financial Accounting

An introduction to the accounting model, the measurement and classification of data, and the terminology essential to effective interpretation and use of financial statements, balance sheets and income statements. Underlying concepts are stressed and these are made concrete with illustrations. While mechanical and procedural details are explored, measurement and communication of data to external parties are emphasized. *Prerequisite: MTH 212.*

ACC 202 (3 credits)
Managerial Accounting

This course introduces students to the generation of cost data for the preparation of proper, representative financial statements, and for optimal planning and control of routine operations and long-range organizational goals. It focuses on the uses of formal cost accounting systems and quantitative techniques to make managerial decisions. Topics include: direct absorption income statements; job and process costing; allocation and proration; proforma and capital budgeting. *Prerequisite: ACC 201.*

MGT 205 (3 credits)
Computer Applications in Management

This is an introductory course comprised of a broad overview of information systems and technology, as principally used in the support of business processes and decision-making activities. An in-depth discussion of the relationship between organizations and information systems is a fundamental element of the course. Topics include: computer hardware and software; operating systems; the use of Excel in management practice; and social issues related to information systems. The use of Excel provides a common thread in the topics covered throughout the course. *Prerequisite: MTH 212.*

MGT 220 (3 credits)
Research and Writing for Management

The course introduces functional areas of business, and emphasizes writing and presentation as learning tools. This course introduces the business curriculum and shows how the various functional areas in business work together to resolve business problems. Integrated exercises and critical thinking cases are used to help students understand the interrelationships and trade-offs involved in communicating effectively in business. *Prerequisite: ENG 112.*

COURSE DESCRIPTIONS

Business Core Courses

FNN 301 (3 credits) **Corporate Finance**

Examines the financial needs of corporations and the range of mechanisms available to meet them. The concept of the time value of money is studied and applied to several decision models in capital budgeting and investment valuation. Other basic theories of finance are examined, including financial statement analysis and risk and return. Different financial requirements are studied with an emphasis on a comparison of internal and external sources of funds and their relative availability and cost. Topics include: capital budgeting; cost of capital; dividend policy; capital structure; portfolio theory; and current asset management. *Prerequisites: Completion of The Richmond Core, ACC 201, ACC 202, MGT 205.*

MKT 301 (3 credits) **Principles of Marketing**

Introduces students to the principles and operations of marketing. Course work includes an in-depth analysis of the strategic role played by marketing in contemporary business, from new product development, marketing research, and target marketing to consumer behavior analysis, advertising, and promotion and personal selling activities. Each variable of the marketing mix is covered in detail, and the macro and micro business environment are assessed for their impact on marketing planning. Lectures, discussion topics, case studies, videos, and practical exercises are used to cover the course material. *Prerequisites: Completion of The Richmond Core, MGT 205, MGT 220, ACC 201, ACC 202, or permission of instructor.*

MGT 301 (3 credits) **Organizational Behavior**

This course explores the structure and nature of organizations and the contribution that communication and human behavior makes to organizational performance. The course addresses not only macro level issues relating to the environment and context within which organizations operate, but also the micro level influences of people as individuals and groups, their motivations and operating styles. The management of people for successful organizational performance is emphasized by considering work environmental factors that facilitate or impede organizational success. *Prerequisites: Completion of The Richmond Core, MGT 205, MGT 220, ACC 202, or permission of instructor.*

MGT 303 (3 credits) **Ethical Issues in Management**

Provides a comprehensive analysis of the business sector's relationship to the principal forces operating in the ethical, legal, and cultural environments. Particular attention is given to the constraints and opportunities offered under common, corporate, and regulatory laws in North America and the European Union. The course also provides an in-depth, comparative framework for understanding the ethical and intercultural challenges facing contemporary multinational and international organizations. *Prerequisites: Completion of The Richmond Core, MGT 205, MGT 220, ACC 201, ACC 202, or permission of instructor.*

MGT 305 (3 credits) **Information Systems in Management**

Builds upon MGT 205 (Computer Applications in Management) and provides the student with advanced study in the application of computing in the functional areas of management. In addition to the advanced use of spreadsheets and databases, this course provide examples and applications of the design and implementation of management information systems and information technology in managing organizations. *Prerequisites: Completion of The Richmond Core, MGT 205, MGT 220, ACC 201, ACC 202, or permission of instructor.*

MGT 307 (3 credits) **Operations Management**

Provides a theoretical and practical understanding of operations management, together with the ability to apply some of its major techniques to practical business problems. It includes operations strategy, materials management, production planning and simulation, network planning, variety reduction, quality assurance, quality circles, purchasing, and problems and opportunities of introducing new technology. *Prerequisites: Completion of The Richmond Core, MGT 205, MGT 220, ACC 202; or permission of instructor.*

MGT 309 (3 credits) **Legal Concepts in Management**

Concentrates on the legal framework within which most business takes place. Topics include corporate problems of raising and maintaining capital by shares; relationships of boards of directors to shareholders; respective rights and obligations; relationships of companies to third parties; control and the principle of majority rule. Examples are used of the way statute and judge-made law has dealt with these problems. *Prerequisites: Completion of The Richmond Core, MGT 205, MGT 220, ACC 202, or permission of instructor.*

Finance Concentration Courses

FNN 302 (3 credits) Principles of Investment

The course familiarizes the student with basic financial instruments and capital market operations, including new issuance, securities trading, and the role of different intermediaries in the investment market. Investment companies are subject to closer study. The fundamentals of portfolio theory are introduced and applied to investment management. Valuation of fixed-income securities, equity instruments, and common stock is discussed on the basis of modern capital market theory. The course introduces financial derivatives, including options, futures, forward rate agreements, and interest rate swaps, and relates the use of derivatives to fixed-income investment, portfolio analysis, and interest rate risk management. *Prerequisites: Completion of The Richmond Core and FNN 301.*

FNN 304 (3 credits) Money and Banking

The most significant recent developments are reviewed and commented upon. The main emphasis is on money and its place within the macro economy. The role of the commercial banks and the central bank is studied from the viewpoint of the part each plays in portfolio selection among economic agents. Some of the controversies about the effectiveness of fiscal and monetary policies are also reviewed. *Prerequisites: ECN 210 and ECN 211.*

FNN 306 (3 credits) Financial Statement Analysis

The course focuses on how financial statements are used to make informed lending and investment decisions. Effective financial statement analysis requires an understanding of accounting principles and the differences between financial reporting and economic reality. The course provides a comprehensive examination of financial reporting systems, principal financial statements, inventory analysis, long-term asset analysis, income taxes, financial liabilities, lease analysis, and off-balance sheet assets and liabilities. *Prerequisite: FNN 301.*

FNN 308 (3 credits) Financial Institutions and Markets

This course familiarizes the student with the diversity of financial institutions that operate in the global economy, including depository institutions, insurance companies, securities firms, investment banks, finance companies, and mutual funds. The economic roles of the financial institutions are analyzed and major trends in the financial markets discerned within the regulatory environment that guide activities in the financial industry. Significant focus is devoted to operational issues in the financial industry, particularly regarding the measurement and management of fundamental risk exposures in financial institutions, and topics include interest rate risk, liquidity risk, market risk, credit risk, operations risk, and technology risk, as well as foreign exchange, political, and sovereign risks. The course discusses the issues facing asset and liability committees in financial institutions and the risk management opportunities offered through market diversification and derivative instruments. *Prerequisites: ECN 210, ECN 211.*

FNN 380–395 (3 credits) Special Topics in Finance

An advanced course on a topic of current interest or in a faculty member's specialty.

FNN 402 (3 credits) International Finance

The course focuses on the global market and the basics of multinational financial management from an international trade finance perspective. An understanding of multinational finance begins with a mastery of the principles of exchange rates—how they are determined, how they affect the price of goods, and their relationship to interest rates. The course also covers foreign exchange markets, multinational accounting, foreign exchange risk, strategies for managing exchange rate exposure, import and export finance, and multinational financial management. *Prerequisite: FNN 301.*

COURSE DESCRIPTIONS

FNN 404 (3 credits) **The Global Investor**

This course examines the role, function, and competencies of the Global Investor in terms of portfolio management process. The course examines the conceptual foundations of portfolio theory as well as practical implementation issues relating to the construction and management of diversified portfolios. Analysis of the modern techniques of portfolio management includes the evaluation standards for the selection of individual securities for inclusion or deletion from portfolios. Throughout the course, students are made aware of the risk-return analysis across a broad range of asset classes, with practical exercises of how to exercise control at both the instrument and operational levels. This course is essential for all students who wish to participate consciously in global capitalism or who wish simply to learn how to manage their money well over the long term. *Prerequisites: FNN 301, FNN 302.*

FNN 406 (3 credits) **Derivatives**

This course provides an analysis of financial economics of exchange-traded futures and options and selected over-the-counter derivatives. The course covers such topics as the market structures of the futures and options markets, the valuation of futures and options contracts, and their use in global risk management strategies. *Prerequisites: FNN 301, FNN 302.*

FNN 408 (3 credits) **Quantitative Models in Finance**

A comprehensive capstone course that focuses on model-building and quantitative methods used by professionals engaged in finance and investments. The course focuses on applying mathematical formulas utilizing Microsoft Excel across a broad range of financial and investment situations. Topics include: the time value of money; basic statistical concepts; probability and random variables; expected value; variance, covariance, and correlation; probability distributions; sampling and estimation; statistical inference and hypothesis testing; correlation analysis and regression; multivariate regression; time series analysis; portfolio concepts; risk analysis; and value at risk. *Prerequisites: FNN 302, FNN 304, FNN 306, and senior status.*

FNN 483 (3 credits) **FNN 486 (6 credits)** **FNN 489 (9 credits)** **Internship in Finance**

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. Most London-based Financial companies require a minimum GPA of 3.0. *Prerequisites: Senior status and permission of adviser.*

FNN 497 (1 credit) **FNN 498 (2 credits)** **FNN 499 (3 credits)** **Independent Study in Finance**

Independent study is an individual research project in a specific area of finance and is taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

International Business Concentration Courses

INB 302 (3 credits) **Foreign Trade Policy**

Familiarizes students with the most important practical and legal aspects of the foreign trading operation. Financing, insurance, documentation, goods handling, and transportation are discussed within the context of an export contract and also under counter trade arrangements. Field trips to commodity exchanges and a research project form a part of this course. *Prerequisites: MKT 301 and FNN 301.*

<p>INB 304 Country Risk Analysis</p> <p>Provides students with an overview of the history, methods, strengths, and limitations of political risk forecasting. Political risk forecasting is defined as a package of social science concepts and methods used by government and multinational businesses to analyze the future political environments in which they operate. A seminar format with extensive student participation is used. <i>Prerequisites: MKT 301 and FNN 301.</i></p>	<p>(3 credits)</p>	<p>INB 402 Managing the Multinational Corporation</p> <p>This is a capstone course for International Business students. It provides a managerial perspective into managing the structure and operations of multinational corporations (MNCs) in the global business environment. Major managerial issues are studied from the MNC's perspective, and the problems of planning and executing business strategies on a global scale are analyzed. A capstone project in International Business is required. <i>Prerequisites: INB 302, INB 304, and senior status.</i></p>	<p>(3 credits)</p>
<p>INB 306 European Business Environment</p> <p>The course focuses on the economic, political, and social environment for business in Europe. Within this field, it examines the institutional interplay with the European Union, the contrasting structure of the European economy compared to its major competitors, the single market, the Euro, Foreign Direct Investment, the role of multinationals, and the developing relationship between central and eastern Europe and the EU. When offered in Florence, several course-related visits are arranged. <i>Prerequisites: MKT 301 and FNN 301.</i></p>	<p>(3 credits)</p>	<p>INB 483 INB 486 INB 489 Internship in International Business</p> <p>This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. Most London-based multinational corporations require a minimum GPA of 3.0. <i>Prerequisites: Senior status and permission of adviser.</i></p>	<p>(3 credits) (6 credits) (9 credits)</p>
<p>INB 308 The European Union: Business and Politics</p> <p>The course is designed to provide an introduction to the enlarged European Union, its markets, trading, and institutions. As background, it explores the evolution of its institutions and markets and the drivers of its decision making processes. The conduct of trade and business, both within the EU and through international markets, is explored in depth. The course is taught as a combination of formal lectures and integrated visits to institutions and organizations throughout Europe. This course is offered over an intensive three week period in June/July and is not an International Business concentration course.</p>	<p>(3 credits)</p>	<p>INB 497 INB 498 INB 499 Independent Study in International Business</p> <p>Independent study is an individual research project in a specific area of International Business, which is taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.</p>	<p>(1 credit) (2 credits) (3 credits)</p>
<p>INB 380–395 Special Topics in International Business</p> <p>An advanced course on a topic of current interest or in a faculty member's specialty.</p>	<p>(3 credits)</p>		

COURSE DESCRIPTIONS

Marketing Concentration Courses

MKT 302 (3 credits) **Consumer Behavior**

This course will focus on the study of what it means to be a consumer in a global, information-oriented (technology-oriented, market-oriented) culture. Examines behavioral science concepts, processes, and approaches that inform marketing strategy as to what, how, when, where, and why people consume. Provides a managerial-oriented understanding of the ubiquity of consumption in post-modern life. Examines the influences upon and the behavior of consumers, both in groups and as individuals. *Prerequisite: MKT 301.*

MKT 304 (3 credits) **Marketing Research**

This course is designed to provide an overview of marketing research and its use in making more effective marketing decisions. The primary emphasis is on providing the students with the skills to effectively utilize marketing research findings and to understand how these aid in the development of sound marketing strategy. The course is also intended to familiarize students with the development of effective measuring instruments (i.e., questionnaires) and their use in the collection and analysis of data. *Prerequisites: MTH 212 and MKT 301.*

MKT 306 (3 credits) **Advertising Management**

The course provides an in-depth study and application of advertising and its role in marketing plans. Topics include: identification of relevant data to analyze the marketing situation; development of product positioning; marketing and advertising objectives; creative strategy; and media planning and evaluation. *Prerequisite: MKT 301.*

MKT 308 (3 credits) **Internet Marketing**

Provides students with an insight into the techniques and processes involved in creating and maintaining a marketing presence on the Internet. New technologies have created some radical changes in the way companies reach their markets. The successful entrepreneurs of the twenty-first century will be those who can harness the potential of virtual technology and marry it to sound marketing practice. Students have the opportunity to learn about electronic commerce in action; the interplay between the technology and marketing applications; the changing scope and uses of the Internet; and current management issues facing businesses attempting to use the World Wide Web. *Prerequisites: MKT 301.*

MKT 310 (3 credits) **Developing and Managing Sales**

This course examines the role of sales development and management for new business as well as for existing companies of any size. It focuses on the various theories and applications of new business and market development strategies that are designed to help companies compete in a global and increasingly electronic market place. Lectures, projects, and cases analyze all aspects of the systems and controls necessary for the effective management of a sales team, whether in consumer goods, business-to-business, or service marketing. *Prerequisite: MKT 301.*

MKT 312 (3 credits) **Distribution and Retailing Management**

Addresses the roles and processes of physical distribution, channel management, and retailing. Emphasis is placed on decision areas concerning transportation, inventory control, and customer service levels. Students study current practices in retail marketing strategy, the retail marketing mix decisions, the distribution channel function, and management. The relationship between the manufacturer and the end-user is analyzed and the activities and functions of channel intermediaries are studied for their impact on market planning. Channel design and developments in contemporary retailing methods are covered, with the emphasis on retail store location, operations, and the influence of technology on distribution. *Prerequisite: MKT 301.*

MKT 380–395 (3 credits)

An advanced course on a topic of current interest or in a faculty member's specialty.

MKT 402 (3 credits) **Global Marketing Management**

Provides an insight into the strategic problems and opportunities faced by companies as they move from local to multinational to global markets. The problems and issues encountered in market entry are highlighted, and standardization, contextualization, and adaptation strategies are assessed for their appropriateness to new market situations. Students are expected to understand and be able to implement an environmental approach to strategic international marketing planning. Lectures, case studies, research projects, and presentations comprise the teaching format for the course. *Prerequisite: MKT 301.*

MKT 404 (3 credits)
Marketing Planning and Strategy

Provides the capstone experience for students concentrating in marketing. Using the case study approach, students integrate their knowledge from previous marketing courses and develop the analytical and interpretive skills necessary for strategic and tactical decision-making. All types of marketing decisions are considered and students undertake a field work project as a major component of the course.

Prerequisites: MKT 301, MKT 304, MKT 306 and senior status.

MKT 483 (3 credits)
MKT 486 (6 credits)
MKT 489 (9 credits)
Internship in Marketing

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. Most London-based Marketing companies require a minimum GPA of 3.0.

Prerequisites: Senior status and permission of adviser.

MKT 497 (1 credit)
MKT 498 (2 credits)
MKT 499 (3 credits)
Independent Study in Marketing

Independent study is an individual research project in a specific area of marketing, taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

MGT 358 (3 credits)
Human Resource Management

Combines elements of different disciplines, ranging from industrial relations, social psychology, personnel management, motivation, recruitment and selection, leadership, communication, manpower planning, aspects of training and development, and related processes. It is appropriate both for those seeking to follow a career in personnel management and for those contemplating careers in other areas of functional management.

Prerequisite: MGT 301.

Capstone Courses in Business

MGT 401
Leadership

As a capstone, Leadership is designed to give students a firm understanding of the importance of leadership in the development and implementation of organizational strategic vision. From entrepreneurial start-ups to worldwide corporate expansion, the role of the leader is studied as the architect of organizational purpose and an inspiration to the workforce, and as the focal point of organizational change. This course combines the study of leadership as social process, involving interaction of leaders and followers in different contexts; an examination of critical thinking and ethics; and an analysis of leadership competencies in leading organizations, groups, and individuals. It provides background on historical and contemporary issues concerning the role, responsibility, and process of leadership. Differentiation of leadership roles within organizations by structure, size, membership, and mission are analyzed. Students use readings, projects, class exercises, and case analyses to examine leadership in diverse settings. *Prerequisites: Completion of the Business Core Courses and Senior Status in Business.*

MGT 403 (3 credits)
Competition and Strategy

Provides the capstone course for business majors. It focuses on long-range strategic planning and policy implementation. Early lectures outline the basic strategic planning model, and case study analyses relate to both the firm's internal operations and the environment in which it operates. *Prerequisites: Completion of the Business Core Courses and Senior status.*

COURSE DESCRIPTIONS

COMMUNICATIONS

COM 140 (3 credits) Making Presentations

Focuses on the development of skills in preparing and presenting various types of speeches. Students learn techniques for researching, outlining, and preparing speeches intended to reach specific informative or persuasive goals. Improvement in speech delivery is emphasized.

COM 203 (3 credits) Intercultural Communications

Ours is a complex world. Never before has there been such a strong imperative for all of us to understand not only those with a background similar to our own but, even more importantly, those whose cultural identity differs from our own. Conflict based on political or religious difference, the growth of international business, increased global communication, inequities of access to communication, the plethora of written and visual material assaulting us on a daily basis, make this a fascinating field of study. Reflecting strongly the mission of the University, this introductory course provides the theoretical and practical foundation for the degree in Communications. It provides students with a strong sense of their own complex cultural identities before moving on to teach them the theories underlying the study of International Communication. There will be opportunities offered for practical applications of these theories in case studies, simulations, and project work.

COM 231 (3 credits) Signs, Image, and Meaning

This course explores images and representation across cultural and historical contexts: the way meanings and ideologies can be decoded from advertising, photography, cinema, modern art sculpture, architecture, propaganda, and comic books. Through varied examples, it takes an introductory route through some of the most important cultural theories and concepts of the twentieth century, such as colonialism, feminism, postmodernism, discourse, orientalism, and semiotics. The class is based around lectures and group exercises, coupled with at least one major field trip to the Victoria and Albert Museum and guest presentations on specific topics.

COM 304 (3 credits) Research and Writing Methods

This course prepares students to conduct original research in the communication discipline, and leads directly into the Senior Seminar. Students engage with a study of different research methods, including qualitative and quantitative approaches, and come to terms with various theoretical models before selecting the most appropriate for their own work. Having chosen an original topic to research, students are guided through the various stages of investigation and writing as they produce a substantial proposal. Step by step, students work on their abstract, literature review, method, data, and preliminary conclusions. Draft work is supervised and graded every week in a process of continuous assessment
Prerequisites: Junior status and ENG 112.

COM 305 (3 credits) Writing for Media/Journalism

Concentrates on the different styles and registers used in journalism and other media, including radio and television. Particular attention is given to the development of styles for news, features, advertising, and editorial writing and to distinguishing different registers depending upon the intended audience. Students carry out detailed analysis of newspapers and broadcasts and work as a team on a class publication. *Prerequisite: COM 304 or equivalent.*

COM 315 *Florence and Rome only* (3 credits) History of Italian Cinema and Society

Introduces students to the history of Italian cinema, as well as inviting a reflection on the representation of the evolution of Italian society in film. Postwar Italian cinema offers a valuable range of films for study. By the end of the course, students should have some knowledge of Italian cinema within the context of world cinema and a good understanding of realism as an esthetic convention. They will also have gained an insight into Italian culture and ways of thinking, which should enrich their experience of living in Italy.

COM 316 (3 credits) Mass Communications and Society

In this course, “mass communication” is taken in its broadest sense to include cinema, television, newspapers, magazines, comics, and the Internet, as well as fashion and merchandising. “Society” involves the people who engage with those texts, from critical theorists to fans, censors to consumers. The course examines the relationship between texts and the people at various historical points during the twentieth century, from various cultural and national

perspectives. Throughout the course, students are encouraged to test and debate established theories by bringing them to bear on everyday popular texts. In the second half of the semester, students prepare a group case study of their own, based on one of the issues explored during the course, and then write it as a substantial report. *Prerequisites: SCL150, COM 203, COM 231 or equivalent.*

COM 321 (3 credits)
Language and Society

The course examines the way language works in relation to communication and culture. Students study the systematic and structural aspects of language as a base for the exploration of broader questions, such as language and social class, identity, gender, technology, and bilingualism. The variety of languages spoken by students in the classroom provides a unique opportunity to illustrate common processes through variety.

COM 362 (3 credits)
Adaptations: Literature and Cinema

Deals with adaptations from literary texts, in the broad sense—novels, plays, and comic books—to cinema and television. It engages with issues around the transition from one medium to another, debating questions of authorship and the relative advantages of different forms. Adaptations are discussed in terms of their historical and cultural contexts, and “faithful” versions contrasted with “free” adaptations that retain the tone and spirit of the original while deviating from the letter of the text. *Prerequisite: At least one Communications course or one Literature course at 200 level or higher.*

COM 378 (3 credits)
Gender in Film

Investigates the relative fixity in the representation of gender in mainstream film by examining the construction of images in half a century of film and teaching students to deconstruct the images which have dominated the screen during that period. Students are encouraged to study film texts closely to make their own readings based on the semiotics of the film and ideology behind it. The myth of stardom and its manipulation is examined. Students is investigate the extent to which the most recent Hollywood products are eroding the fixed representations of gender in the past. *Prerequisites: COM 304, or equivalent and senior status, or permission of instructor.*

COM 401 (3 credits)
Senior Project

A practice-oriented course in which students work together as a group to develop a portfolio for a client outside the University. Students are required to use both their individual technical skills—graphic, photographic, journalistic—and their interpersonal communication skills in this capstone course for the communications major. *Prerequisite: Open to senior year students only or by permission of instructor. Study abroad students with a communications background may also enroll.*

COM 430–445 (3 credits)

An advanced course on a topic of current interest or in a faculty member’s specialty.

COM 460 (3 credits)
PR and Self-Presentation in the Media

This course examines the range of communications techniques and practices available to the contemporary public relations practitioner. Topics include internal and external public relations, media relations and fund raising, building strategic alliances and lobbying, personal publicity and media events, communications planning and research, and international public relations in theoretical, ethical, and legal contexts. Students are required to develop, budget, and implement their own public relations campaign, and to project and evaluate its likely success. *Prerequisites: COM 304, COM 316, COM 321 and senior status. Study abroad students may take this course with the permission of the Chair of the Department of Communication and Fine Arts.*

COM 474 (3 credits)
Film as Oppositional National Cinema

This course compares mainstream Hollywood films with the films of other countries and considers the extent to which cultural, political, and historical contexts have influenced the grammar of the cinema during the last century. The overall focus of the course is broad, ranging across eight decades and many different countries; it aims to convey a variety of approaches to narrative cinema. During the semester, key film movements of the twentieth century are covered, including the French New Wave and Italian Neo-Realism. Finally, the representation of Iranian and African cultures from an “insider” and a “Hollywood” perspective are compared. *Prerequisites: COM 304 and senior status or permission of instructor.*

COURSE DESCRIPTIONS

COM 478 (3 credits)
Mainstream Cinema: Studies in Genre

This course investigates the development of genre films over a historical period. Students engage with the importance of iconography, key themes, authorship, and stardom to Hollywood genre films. Specifically, through a study of the two most important genres in film criticism, students consider the evolution of the Western and gangster film from the early 1930s to the present. The course explores the idea that genre films necessarily retain basic similarities while changing over time to reflect cultural concerns and to keep audience interest. Also discussed are notions of authorship and the theory that the director's "personal stamp" and individual vision may transcend generic conventions. *Prerequisites: COM 304 or equivalent and senior status or permission of instructor.*

COM 483 (3 credits)
COM 486 (6 credits)
COM 489 (9 credits)

Internship in Communications

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. *Prerequisites: Senior status and permission of adviser.*

COM 491 (3 credits)
Senior Seminar in Communications
Theory and Research

This is a capstone theory and research course for communications majors, which gives students a solid grounding in communications research techniques, and illustrates those techniques in action through a range of examples from contemporary and historical work in the field. The course is based around independent study, with an 8,000-word original research requirement. The course is structured around managing the process of writing original research, with a timetable and deadlines to produce a thorough, analytical research project. *Prerequisites: COM 316 and COM 304 or permission of instructor.*

COM 497 (1 credit)
COM 498 (2 credits)
COM 499 (3 credits)

Independent Study in Communications

Independent study is an individual research, laboratory, or creative arts project in Communications, and is taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

COMPUTER NETWORKING

CNW 100 (3 credits) **Networking I: Networking Basics**

Provides students with an introduction to the basics of computing, networking, network terminology and protocols, routing, LANs, WANs, OSI models, cabling, cabling tools, IP addressing, and network standards. Particular emphasis is given to the use of decision-making and problem-solving techniques in applying science, mathematics, communication, and social studies.
Prerequisite: MTH 100 or mathematics placement test exemption.

CNW 101 (1 credit) **Networking I: Lab**

Provides a practical extension of Networking Fundamentals and reinforces students knowledge of many aspects of the basic networking concepts presented in CNW 100. The experiments promote hands-on experience in the proper care, maintenance, and use of networking software, tools, and equipment; and all local, state, and federal safety, building, and environmental codes and regulations.
Prerequisite: MTH 100 or mathematics placement test exemption. Co-requisite: CNW 100.

CNW 150 (3 credits) **Networking II: Routing Basics**

Provides students with the knowledge of network terminology and protocols, network standards, LANs, WANs, OSI models, Ethernet, Token Ring, Fiber distributed Data Interface, TCP/IP Addressing Protocol, dynamic routing, routing, and the network administrator's role and functions. Particular emphasis is given to the use of decision-making and problem-solving techniques in applying science, mathematics, communication, and social studies. *Prerequisites: CNW 100/101.*

CNW 151 (1 credit) **Networking II: Lab**

Provides a practical extension of CNW 150 on protocols and sub-netting. Reinforces students' knowledge of many aspects of the basic networking concepts presented in CNW 150. The experiments promote hands-on experience in the proper care, maintenance, and use of networking software, tools, and equipment; and all local, state, and federal safety, building, and environmental codes and regulations. *Prerequisites: CNW100/101. Corequisite: CNW 150.*

CNW 200 (3 credits) **Networking III: Switching Basics and Intermediate Routing**

Provides students with a knowledge of the design, configuration, and maintenance of Switches, Local Area Networks (LANs), and Virtual LANs (VLANs). Particular emphasis is given to the use of decision-making and problem-solving techniques in applying science, mathematics, communication, and social studies.
Prerequisites: CNW 150/151.

CNW 201 (1 credit) **Networking III Lab**

Provides a practical extension of Router Configuration and Management. It gives practical experience in skills related to configuring Routers, Novell networks, Internetworking packet Exchange (IPX) routing, Interior Gateway Routing Protocol (IGPR), and Network Troubleshooting. *Prerequisites: CNW 150/151. Corequisite: CNW 200.*

CNW 220 (3 credits) **Network Administration**

This course is intended for new-to-product support professionals who will be responsible for installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows 2000 Server Products. The course also addresses the needs of computer system support professionals who are on the Microsoft Certified Systems Engineer (MCSE) Windows 2000 certification track.

CNW 250 (3 credits) **Networking IV: WAN Technologies**

Extends the students' knowledge of the design, configuration, and maintenance of Wide Area Networks (WANs), Integrated Services Data Networks (ISDNs), Point to Point Protocol (PPP), and Frame Relay. Particular emphasis is given to the use of decision-making and problem-solving techniques in applying science, mathematics, communication, and social studies.
Prerequisites: CNW 200/201.

CNW 251 (1 credit) **Networking IV Lab**

Provides a practical extension of LAN and WAN design and configuration. It gives practical experience in skills related to configuring LANs, WANs, ISDN, PPP, Frame Relay Protocols, and Network Troubleshooting.
Prerequisites: CNW 200/201. Corequisite: CNW 250.

COURSE DESCRIPTIONS

COMPUTER SCIENCE

CSC 107 (3 credits) **Fundamentals of Program Design I**

This is the first of a three-semester sequence of courses on program development, introducing problem-solving, design of algorithms and data structures, and their realization as computer programs. Topics include algorithms, data types, control structures, procedural abstraction, recursion, user interfaces, and event-driven programming. *Prerequisite: MTH 100 (or mathematics placement test exemption). Pre- or corequisite: CSC 121 (or test-based exemption granted by the instructor).*

CSC 117 (3 credits) **Fundamentals of Program Design II**

This is the second of a three-semester sequence of courses on program development, focusing on problem-solving, design of algorithms and data structures, and their realization as computer programs. Topics include object oriented analysis and design, classes, polymorphism, inheritance, and advanced programming features. *Prerequisite: CSC 107. Pre- or corequisite: CSC 200.*

CSC 121 (3 credits) **Information Systems and Computer Applications I**

Examines the nature of information systems and information processing techniques. Topics include: input and output; primary and secondary storage; data validation and testing; systems and applications software; and data security. This course includes a practical element using a disk-operating system, word processing, and spreadsheet software. All students successfully completing this course will be at ease using modern computer systems, while those progressing to further computer studies will be well-placed for more advanced work. *Pre- or corequisite: MTH 100 or mathematics placement test exemption.*

CSC 131 (3 credits) **Information Systems and Computer Applications II**

Building on the knowledge acquired in CSC 121, this course examines further aspects of the modern information systems and prepares the student for many of the upper division computer and business courses. The material in this course consists of the basics of system analysis and design, databases, management information systems, graphics, and expert systems. The course contains a significant practical element. *Prerequisite: CSC 121.*

CSC 200 (3 credits) **Systems Specification and Design**

Provides an introduction to techniques used by industry for software specification and design. The course introduces the software development cycle and analyzes the difficulties inherent in producing good, fault-free software. Various modeling methods are introduced, including Unified Modeling Language. Students complete a substantial systems specification and design project. *Prerequisites: CSC 131 and MTH 117.*

CSC 207 (3 credits) **Fundamentals of Program Design III**

This is the third of a three-semester sequence of courses on program development, investigating in depth problem-solving, design of algorithms and data structures, and their realization as computer programs. Topics covered include vectors, lists, trees, priority queues, graphs, dictionaries and complex combinations of these, as well as searching, sorting and pattern matching. *Prerequisite: CSC 117. Corequisite: CSC 208.*

CSC 208 (1 credit) **Fundamentals of Program Design III Laboratory**

This laboratory course complements CSC 207, the third of a three-semester sequence of courses on program development, investigating in depth problem-solving, design of algorithms and data structures, and their realization as computer programs. Practical topics include vectors, lists, trees, priority queues, graphs, dictionaries and complex combinations of these, as well as searching, sorting, and pattern matching. *Corequisite: CSC 207.*

CSC 212 (3 credits) **Digital Systems Design**

Introduces students to the design and implementation of digital systems. It teaches the principles and concepts of good logic design, following a hierarchical approach. It evolves from logic gates to the finite and algorithmic state machines and leads to the design of computer systems. Students gain an understanding of how complex logic functions are implemented and learn design for reliability. *Prerequisites: CSC 107 and MTH 117. Corequisite: CSC 213.*

- CSC 213** (1 credit)
Digital Systems Design Laboratory
- Extends students' knowledge on the design and understanding of digital systems. The course provides a complementary understanding to the theory learned in the corequisite course CSC 212. It concentrates on the practical aspect of digital systems by enabling students to simulate, manipulate, wire, and connect chips together. *Prerequisites: CSC 107 and MTH 117. Corequisite: CSC 212.*
- CSC/SCL 215** (3 credits)
Social Issues in Computing
- Covers diverse aspects of computers and the impact of information technology on privacy, legality, and security of information. Students discuss the social impacts of computers on day-to-day life, including work, the home, the business world, medicine, telecommuting, and time in general. The use of computers for creativity via artificial intelligence and their application in different societies are also considered. *Prerequisite: SCL 150 is recommended, but not required.*
- CSC 240** (1 credit)
Introduction to Project Management
- This course is designed for students who need to understand and be able to use project management methods and techniques. The course covers project management team work within companies, and their use in delivering completed projects to external clients.
- CSC/MTH 300** (4 credits)
Mathematics for Computing
- The mathematical foundations essential to advanced areas of computer science and systems design are investigated, such as predicate logic, recurrence relations, geometric transformations, proof of correctness, vector analysis, Fourier analysis, queuing theory, graph theory applications, and machines. *Prerequisites: MTH 114, MTH 117, and MTH 118.*
- CSC 301** (3 credits)
Software Engineering
- Devoted to tools that increase the quality and decrease the cost of developing and maintaining complex software systems. It includes activities that cover the whole spectrum of the software development cycle. The emphasis is on practice and group participation. Students learn to prepare specifications in a formal language (Z) and to translate these specifications into an executable form (Prolog). *Prerequisite: CSC 200.*
- CSC 302** (3 credits)
Computer Architecture
- Introductory course for engineer users of realtime computing. It presents the design and limitations of digital computers based on sequential processing, and the motivation for advanced architecture. CPU connections, memory and I/O management, and RISC architectures are covered. Participants are invited to bring their own application problems to the course, around which the exercises will be constructed. *Prerequisites: CSC 121, CSC 207, CSC 212 and CSC 213. Corequisite: CSC 303.*
- CSC 303** (1 credit)
Computer Architecture Laboratory
- Extends the student's ability to both understand and manipulate microcomputer systems. The course complements the theory learned in the corequisite course CSC 302. It concentrates on the practical aspect of configuring, programming, and interfacing CPUs to their environment. *Prerequisites: CSC 121, CSC 207, CSC 212 and CSC 213. Corequisite: CSC 302.*
- CSC 305** (3 credits)
Computer Graphics
- Provides an introduction to computer graphics and includes issues associated with graphic applications of computers, desktop publishing, manipulation of pre-drawn images in a suitable software environment, geometric transformations, color theory, and graphics hardware. Group projects provide opportunities for both arts and science students to study advanced topics in computer graphics. *Prerequisites: CSC 131, CSC/MTH 300, or permission of instructor.*
- CSC 311** (3 credits)
Artificial Intelligence
- Provides an introduction to artificial intelligence and includes issues associated with predicate calculus; structures and strategies for state space search; heuristic search; control and implementation; AI programming languages; and rule-based systems. *Prerequisites: MTH 117 and CSC 131.*

COURSE DESCRIPTIONS

CSC 319 (3 credits) **Algorithms**

Covers the design and analysis of algorithms, particularly those for handling complex data structures and non-numeric processes. Greedy, divide-and-conquer, and dynamic programming algorithms are discussed. Lower and upper bounds of computational complexity are analyzed. *Prerequisite: MTH 117. Pre- or corequisites: CSC 207, CSC 208 and CSC/MTH 300.*

CSC/MTH 329 (3 credits) **Combinatorics and Graph Theory**

Covers the basic elements of number theory and graph theory. It includes selection and distribution problems; recurrence relations; generating functions; graphs; planar graphs; trees; computer representation of graphs; and graph algorithms. *Prerequisites: CSC 117 and MTH 117.*

CSC 331 (3 credits) **Knowledge-based Systems**

Considers some of the broad issues raised by the concepts of "intelligent" computer systems, human-computer interaction, and database systems applications. It focuses particularly on the techniques used to implement knowledge-based systems, including expert systems and decision-support systems. *Prerequisite: CSC 131 and MTH 117.*

CSC 336 (3 credits) **Graphic Applications of Computers**

Introduces students to the ways in which computers can be used to assist artists and designers by working with software appropriate to lens media, computer-aided design, and fine art applications. Students are introduced to computers as a design tool for the manipulation of text and image. They learn techniques and skills associated with desk top publishing and develop a series of projects dealing with image manipulation and graphics.

CSC 341 (3 credits) **Data Communications and Computer Networks I**

This course investigates the fundamental concepts of data communications, networking, distributed applications, and network management. Students study methods for designing, enhancing, managing, and costing networks. In general, the course covers critical issues in Local Area Networks, Backbone Networks, Wide Area Networks, Internet Technologies, and the use of the Internet, intranets, and extranets to support business objectives. *Prerequisite: CSC 131.*

CSC/HST 344 (3 credits) **The History of Computing**

Incorporates a significant research and writing methods component and covers the social, economic, and cultural causes and consequences of significant contributions in the history of computing, from the earliest times to the modern era. A comparative emphasis is made of contributions from all over the world, including Europe (Ada Lovelace, Alan Turing), Japan (Casio Brothers, Shima Masatoshi), and North America (Grace Hopper, Stephen Wosniak). Comparative and cultural issues surrounding the impact of their achievements and those of other scientists are also investigated. *Prerequisites: HST 101 or HST 102 and junior status.*

CSC 345 (3 credits) **Human-Computer Interaction**

Examines efficient design, evaluation, and implementation of human and machine interactions. Various human-like sensors and motors, with their information structure that reflects human conceptualizations, are studied. Fundamental questions addressed are: what are efficient methods of representing objects and automatically creating pictures for viewing; what are effective methods for receiving input or presenting output; and how can graphics and other tools be used to understand physical phenomena through information stored in data sets? *Prerequisites: CSC 131, CSC 200 and CSC/SCL 215.*

CSC 349 (3 credits) **Simulation and Modeling**

Deals with the techniques used in computer simulation and modeling. It covers model construction and algorithm development in the context of several application areas. As a whole, the course treats the important aspects of simulation study, including simulation language, validation, output data analysis, and their presentation graphics. *Prerequisites: CSC 207 and CSC/MTH 300.*

CSC 361 (3 credits) **Database Management Systems**

This course develops the database models studied in CSC 131 and examines the theoretical and practical development, implementation, and use of database management systems. Studies include the progression from small, single-user systems through multi-user systems and on to very large scale distributed systems. There is also an introduction to Data Warehousing. *Prerequisite: CSI 131. Corequisite: CSC 362.*

CSC 362 (1 credit)
Database Management Systems Laboratory

This course accompanies CSC 361, giving practical experience to the theoretical aspects of CSC 361. It follows the introduction of concepts from that course, using Access and SOL server to reinforce the theory.
Prerequisite: CSC 131. Corequisite: CSC 361.

CSC 420 (3 credits)
Project Management

This course examines the major phases of the project management process: project selection and definition; planning; organization; control; completion; and review. Students examine key outcomes, documents, and techniques available for successfully managing these phases. Topics include: project selection and scope definition; work breakdown structures and statements of work; risk management; project scheduling; project team selection and management; and analyzing project management tools. *Prerequisite: SYS 300.*

CSC 421 (3 credits)
Telecommunication Systems

Provides an introduction to telecommunications and includes issues associated with telecommunications systems characteristics, digital transmission, wireless, radio telecommunications, fiber-optics communications, and multimedia services. Advanced topics in telecommunications are also considered. *Prerequisites: CSI 131, CSC 212, CSC 213 and CSC/MTH 300.*

CSC 427 (3 credits)
Operating Systems

Discusses operating systems issues such as tasking and processes; process co-ordination and synchronization; scheduling and dispatch; physical and virtual memory organization; device management; and file systems. Security and protection problems and distributed systems design are discussed. *Prerequisites: CSC 200, CSC 212, CSC 213 and CSC 301.*

CSC 431 (3 credits)
Data Communications and Computer Networks II

This course is concerned primarily with the architecture and technology of data flows in networks. The OSI model is examined in detail along with protocols for error and flow control, dynamic routing and congestion control. Routing, bridging and service aspects of internetworking are examined. Various applications are reviewed including X.25, frame relay, FDDI, ATM, etc. The principles underlying multimedia services are also investigated.
Prerequisite: CSC 341.

CSC 440–459 (3 credits)
Special Topics in Computing

An advanced course on a topic of current interest or in a faculty member's specialty.

CSC 478 (3 credits)
Speech Processing

Investigates the processes involved with the analysis of acoustic signals. Also develops issues of feature extraction and classification; natural language processing; Fourier transforms; linguistics; and commercially available speech recognition systems. Students are expected to produce a group speech-processing project. *Prerequisite: CSC 319.*

CSC 479 (3 credits)
Internet Computing

The development of the Internet has created a wealth of opportunities in e-commerce, web software tools, web design, and computer network management. This course investigates the most significant developments and the essentials of establishing an on-line company. Setting objectives, creating strategies, and implementing programs are all considered. Students are required to complete a group project in an area related to Internet computing.
Prerequisite: CSC 200.

CSC 483 (3 credits)

CSC 486 (6 credits)

CSC 489 (9 credits)

Internship in Computing

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. *Prerequisites: Senior status and permission of adviser.*

COURSE DESCRIPTIONS

CSC 491 (3 credits)
CSC 492 (3 credits)

Senior Project I and II

Project-based courses that concentrate on advanced topics in computing according to the interests of the senior project supervisor. Each student must be able to choose, research, and carry out a substantial project in a subject of his or her choice. The projects should produce a piece of work that is either commercial or is concerned with research being carried out in the department. The subject must have technical content and demonstrate the ability to find relevant information and apply it productively.

Prerequisites: Senior status and permission of instructor.

CSC 497 (1 credit)
CSC 498 (2 credits)
CSC 499 (3 credits)

Independent Study in Computing

Independent study is an individual research project in computing, taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this requires research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

ECONOMICS

ECN 103 (3 credits)
The Economics of a Developing World

Both global in its emphasis and multicultural in its outlook, the course brings together discussion of transitional development country issues from the perspective of elementary economics. The material used is current and draws on the case study approach for its dissemination to students.

ECN 210 (3 credits)
Introduction to Microeconomics

An introduction to basic economic methodology. Within a framework of supply and demand analysis, the behavior of producers and consumers is examined in the context of the efficient allocation of scarce resources in society.

ECN 211 (3 credits)
Introduction to Macroeconomics

Macroeconomics deals with global issues and includes a theoretical study of the national income and its component parts. This basic model is used to examine policy issues and contemporary problems relating to income and employment, inflation, growth, and international trade and finance.

ECN 301 (3 credits)
Intermediate Microeconomics

In-depth treatment of microeconomics with a greater emphasis on quantitative approaches to problem-solving. More attention is paid to oligopoly analysis and alternative models to the traditional theory of the firm.

Prerequisites: ECN 210, MTH 114 and junior status.

ECN 302 (3 credits)
Intermediate Macroeconomics

Relates macroeconomic theory to the problems of government, emphasizing the applicability of basic economic theory to the instruments and targets of macroeconomic strategy. Illustrative material is drawn from the UK economy; the problem-based approach enables students to gain an understanding of the techniques and relevance of conceptual analysis.

Prerequisites: ECN 211 and junior status.

<p>ECN 308 (3 credits) Managerial Economics</p> <p>Application of microeconomic decision tools to managerial problems of the firm. Objectives and the determinants of those objectives are studied, including profit, demand, production, and cost analysis. Specific topics include marginal decision-making, decision theory, break-even analysis, and price determination. <i>Prerequisites: ECN 210, ECN 211, MTH 114 or MTH 115, MTH 118 or MTH 212 and junior status.</i></p>	<p>ECN 380–395 (3 credits) Special Topics</p> <p>An advanced course on a topic of current interest or in a faculty member's specialty.</p>
<p>ECN 352 (3 credits) Economics of Transition</p> <p>Takes a case study approach to the examination of the process of economic transition. Discusses what priorities led to the changes in eastern Europe and whether trade and price liberalization schemes can work and at what cost. The alleged death of socialism as an economic and political ideology will also be addressed. <i>Prerequisites: ECN 210, ECN 211.</i></p>	<p>ECN 450 (3 credits) International Economics</p> <p>Considers international specialization, the development of world trade, commercial policy, balance of payments, foreign exchange rates, and payment mechanisms. <i>Prerequisites: ECN 210, ECN 211 and junior status.</i></p>
<p>ECN 353 (3 credits) Economic Problems of Developing Countries</p> <p>Discusses questions such as: why does the level of economic prosperity vary between countries; how is the difference itself to be measured; what is the range of measures available to improve the lot of the world's poorest inhabitants; and what role can organizations such as the IMF and the World Bank take in this process? <i>Prerequisites: ECN 210, ECN 211 and junior status.</i></p>	<p>ECN 480 (4 credits) Senior Project</p> <p>Following a literature survey in the early part of the semester, students will conduct individual research work. The instructor will facilitate the process through regularly scheduled class meetings.</p>
<p>ECN 357 Florence and Rome only (3 credits) International Economic Relations</p> <p>Examines economic relations between nations and groups of countries. Institutional, political, and historical factors shape the economic environment, and the course discusses international cooperation toward development, regional integration, settlement of disputes, and the steady growth of world trade. Also covered are multilateral trade negotiations, the European Economic Community, and the legal framework for world trade. This course is given in English and students are asked to prepare papers and participate in seminars.</p>	<p>ECN 483 (3 credits) ECN 486 (6 credits) ECN 489 (9 credits) Internship in Economics</p> <p>This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. <i>Prerequisites: Senior status and permission of adviser.</i></p>
<p>ECN 361 (3 credits) Econometrics</p> <p>Applications of statistical and operations research techniques to economic decision-making, both at micro and macro level. Case studies in business decision-making, computer models of national economic forecasts, and other simulations. <i>Prerequisites: MTH 218, ECN 301, ECN 302 and senior status.</i></p>	<p>ECN 497 (1 credit) ECN 498 (2 credits) ECN 499 (3 credits) Independent Study in Economics</p> <p>Independent study is an individual research project in a specific area of Economics and is taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves research, reading, writing, and where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.</p>

COURSE DESCRIPTIONS

**ENGLISH LANGUAGE
DEVELOPMENT PROGRAM**

ELD 100 (3 credits)
Foundations in Business

An introduction to the basic concepts of economic activity, business organizations, production, retailing, marketing, franchising, stocks and shares, banking, and advertising.

ELD 101 (3 credits)
Business Communications

As in all communications courses in the Foundations Program, students are taught study skills: note-taking, summary, paraphrase, synthesis, and the use of sources (including the University library), leading to the compilation of a term project.

ELD 102 (3 credits)
Foundations English (Business)

The emphasis in the English classes for the Foundation Program is on improving essay writing skills in the context of an academic discipline. Reading and grammar sessions focus on the discourse of the particular subject area.

ELD 110 (3 credits)
Foundations in Social Science

An introduction to the discourse of Social Science by examining the structure of society; class and caste; sex and gender roles; and family and tribe relationships.

ELD 111 (3 credits)
Social Science Communications

See description under ELD 101.

ELD 112 (3 credits)
Foundations English (Social Science)

See description under ELD 102.

ELD 130 (3 credits)
Foundations in Politics

Discusses the basic concepts of political science: capitalism and Marxism; nation and sovereign states; international relations; human rights; systems of government.

ELD 131 (3 credits)
Political Communications

See description under ELD 101.

ELD 132 (3 credits)
Foundations English (Politics)

See description under ELD 102.

ELD 140 (3 credits)
Foundations in Economics

An introduction to the basic principles of Economics, including supply and demand, resources, labor, and production.

ELD 141 (3 credits)
Economics Communications

See description under ELD 101.

ELD 142 (3 credits)
Foundations English (Economics)

See description under ELD 102.

ENGLISH

ENG 111 (3 credits) Principles of Writing I

Concentrates on developing students' reading and writing skills to assist them with the demands of all their university courses. The focus is on the study and analysis of a wide range of texts and the development of a competent and accurate personal style of essay writing. This is the first semester of the Richmond freshman composition sequence.

ENG 112 (4 credits) Principles of Writing II

Builds on Principles of Writing I and helps students master the elements of academic literacy which form the foundation for good writing across the curriculum: analysis, critical reading, research, citation, and the argument paper. Students participate in a writing and a research component, developing their abilities as critical thinkers, researchers, and effective users of technology.

Prerequisite: ENG 111 with a grade C- or above.

A student failing to achieve this grade must repeat ENG 111.

Only the second grade will count toward the GPA.

Note: The satisfactory completion of ENG 111 and ENG 112 or their equivalent is a Prerequisite for all 200-, 300- and 400-level LIT courses.

ENG 203 (3 credits) Introduction to Creative Writing

An interactive workshop that investigates and begins to develop and refine each student's creative writing, as well as to identify both the similarities and differences between this and/or their academic writing. Using engagement with texts and workshop exercises as a springboard, students are steered through several drafts of their work toward attaining a professional level of presentation. By the end of the semester, students will have completed a portfolio of work to be assessed.

Pre- or corequisite: ENG 111.

ENG 303 (3 credits) Creative Writing

A writers' workshop in which students regularly submit examples of their work for critical consideration by the instructor and other members of the class.

Prerequisite: ENG 112.

HISTORY

HST 101 (3 credits) World Cultural History I

The course serves as a broad introduction to world cultures, from the beginnings of humankind in Africa through to the end of the western Roman Empire. Peoples and cultures covered include: Neolithic society, Sumeria, Akkadia, Babylon, Egypt, the Hittites, the Hebrews, Assyria, Persia, the Greek world, Han China, Christianity, Islam, and the Byzantine Empire. Although an extensive examination of each society is impossible in such a survey, the course aims to give the student a general understanding and appreciation of some of the art, architecture, philosophy, literature, religion, and politics of cultures studied. It also draws attention to diversity as well as similarities within and between regions and countries, emphasizing the considerable interaction that occurred between different places and peoples. Classes are highly interactive with seminars, guest lectures, and scheduled visits to the British Museum and the Petrie Museum of Egyptology, as well as visits to relevant current exhibitions.

HST 102 (3 credits) World Cultural History II

This course is designed to be interactive with seminars, guest lectures, and scheduled class visits to the British Museum, Royal Academy of Arts, and National Gallery, as well as visits to relevant current exhibitions. It examines in broad outline the development of world civilizations from the collapse of the Roman West and the rise of Islam through to the beginnings of the European "Age of Empire." Emphasis is placed on the politics, culture, and society of the peoples and societies in question, including: early modern Europe (the Franks, Vikings, Crusades, Renaissance and Reformation, and the rise of absolutism); Islamic cultures (Spain, the Ottomans, the Mughals); Africa (Nubia, Axum, Mali, and Great Zimbabwe); South America (Olmecs, Maya, Aztecs, and Inca); and North America (Cahokia).

COURSE DESCRIPTIONS

HST/BIO 125 (3 credits) **Turning Points in the History of the Life Sciences**

Following the turning points in the continuities of culture, this course considers the history of the scientific mind as an unfolding of mankind's different talents: relating ideas, particularly biological ideas, to the cultural influences of the time. It explores changing conceptions of living beings within the context of the intellectual and social preoccupations of the time in which they arose—from the pre-history of science, through Greek and Hellenistic medicine and philosophy, the Islamic and Chinese influences, the European Renaissance, and the founding of a scientific approach to the study of life in the eighteenth and nineteenth centuries. The culmination of biological thought in the nineteenth century is exemplified by Mendelian genetics and the Darwin–Wallace theory of evolution. The Watson–Crick–Franklin discovery of DNA in the twentieth century is the capstone to 10,000 years of scientific biological thought. *Pre- or corequisites: MTH 100 or mathematics placement test exemption and BIO/HST 126.*

HST/BIO 126 (1 credit) **Turning Points in the History of the Life Sciences: Laboratory**

In the laboratory sessions, students examine critically the various experimental techniques developed for the study of living organisms. *Corequisite: BIO/HST 125.*

HST 219 (3 credits) **Cultures of Imperial Power**

This course examines the causes and consequences of empires. It provides an introduction to the characteristics of the history of empire and discusses the ways in which postcolonial theory can be applied to history, although the focus is on the modern period. Attention is directed to the nineteenth- and early twentieth-century empires of Britain and France. Topics include: the reason that empires were created; how these were (and are) described; their impact on the peoples involved; how the colonized resisted the colonizers; and whether former colonies could develop sub-imperial agendas of their own.

HST 221 (3 credits) **British Economic and Social History**

Covers the period from the 1760s to the present day. A major focus is the Industrial Revolution itself: why and how it happened, and how it changed the lives of the people in dramatic ways. From Britain's economic highpoint, the course traces the debate about “decline,” from the end of the nineteenth century to today, looking at the effects of war and the end of Empire on the country and its people. A particular theme running throughout the course is the changing involvement of women in the economy and the parallel changes in their role and status within society.

HST 235 (3 credits) **When Worlds Collide: Race and Empire in America 1776–1914**

Underlines the expansionist nature of American society from independence to World War I and its effect not just on the peoples on both sides of the colonial frontier but also upon the development of modern American history. Particular emphasis is placed on the origins of this early empire (economic, racist, and religious) and the relationship between Anglo-Americans and American-Indians, Chicanos, Blacks, Hawaiians, Cubans, Filipinos, and early European immigrant groups within the United States.

HST 236 (3 credits) **From Versailles to Vietnam: The United States and the World**

Provides an understanding of some of the major issues and themes that underlie the development of the United States from World War I to the end of the cold war. Particular attention is paid to the emergence of the United States as a global superpower, the consequences of such a rise to dominance, including the means by which America has projected its newly acquired power globally: financially, diplomatically, and militarily.

HST 277 (3 credits)
The Birth of the Modern World: The Enlightenment

An introduction to the themes and debates that have constituted modern thought and consciousness: nature, religion, science, progress, education, gender, and the public sphere. These themes are explored through critical reading of key texts by Locke, Rousseau, Diderot, Voltaire, Kant, and through contemporary visual representations and modern videos. Students debate the role of reason in science and religion; the centrality of knowledge and education to the development of the enlightened individual; and the importance of sociability, politeness, and conversation in the formation of the secular system of values which shaped modern society. The course is designed to be interactive, with lectures, seminars, class presentations, and class visits to relevant exhibitions.

HST 301 (3 credits)
History of London

From the creation of Londinium by the Romans to the great modern metropolis, this course traces the growth and the changing functions, institutions, and architecture of London. Readings from writers describing the London they knew, as well as visits to selected monuments, are an integral part of this course.

Note: Visits require some travel and entrance costs.

HST 309 Florence only (3 credits)
Early Modern Italy

Examines the history of High Renaissance and Baroque Italy, with particular attention to Florence and the Medici family during the sixteenth and seventeenth centuries; its historical evolution and decline; the relationship between court and town; the mythology of the Prince; the social and economic organization of urban life; the Counter Reformation; and Galileo and his contemporaries.

HST 310 Florence only (3 credits)
Medieval and Early Renaissance Italy

The structure and evolution of political, social, and cultural life in Italy is examined, with special emphasis on Florence and Tuscany. Particular attention is paid to the political and spiritual role played by the church. The activities of the five city-states Florence, Venice, Milan, Rome, and Naples are also viewed against the background of the peninsula as a whole. *Prerequisites: Two 100- or 200-level history courses or permission of adviser.*

HST 311 Rome only (3 credits)
Rome Through the Ages

Studies the history of Rome from its reputed founding by Romulus and Remus to the establishment of the Roman Republic and the creation of the Roman Empire, as well as the conversion to Christianity and the appointment of the first Pope. Students visit the major archeological sites.

HST 313 Rome only (3 credits)
Introduction to Modern Europe, 1870–1945

Taking as its starting point German unification, this course examines the central themes in European history, encompassing nationalism, imperialism, and other twentieth-century ideologies. It addresses the rivalry of the great powers in Europe, which culminated in World War I, and then studies the failure of the interwar peace, leading to the causes and events of World War II, which witnessed Germany's unsuccessful bid for hegemony in Europe.

HST 316 (3 credits)
Pictures of Power: History, Image, and Propaganda

The course aims to introduce students to innovative methods of studying the past, which utilize popular forms of visual culture. Specific case studies range from the pyramids of ancient Egypt to the science-fiction of cold war America and beyond. While recognizing the complexity of the image-making process and the various influences which go into shaping images, the course focuses on the historical relationship between politics and art (including architecture, sculpture, painting, photography, postcards, posters, and cinematic and television images), and the way in which significant aspects of visual culture have been utilized to propagate or critique particular ideological, theological, and/or political messages. The course is highly interactive and involves seminars and class visits to the British Museum and to the National Gallery.

HST 323 (3 credits)
The Rise of the Right: A History of Fascisms

This course offers a comparative study of European and non-European fascisms from the end of World War I through to the early twenty-first century. It explores some of the fundamental interpretative questions concerning the nature of fascism and the origins of the ideology, as well as some late nineteenth-century/early twentieth-century proto-fascist movements. The focus, however, is on the individual fascist movements themselves, including European varieties such as Italy, where the Fascist prototype evolved; Germany, where it was taken to its

COURSE DESCRIPTIONS

extreme; and Spain, where its variant persisted until 1975. Also considered is the influence of fascism outside post-war Europe—apartheid South Africa, Argentina under Peron, and Saddam Hussein's regime in Iraq. The course concludes with a discussion about the "return" of fascism, including skinhead and Neo-Nazi violence; Western immigration debates; ethnic cleansing; and the growth of the radical right. The course is highly interactive with guest speakers, class visits, and regular seminar sessions.

HST/PLT 324 **Politics of the Middle East**

Deals primarily with the politics of the Arab world, although Iran and Turkey are discussed where appropriate. This course is thematic rather than national in focus. Among the themes discussed are nationalism, revolution, the politics of oil, the great powers and the Middle East, and religion in politics. A previous course in Middle Eastern history is strongly advised.

Prerequisite: PLT 150 or INR 203 or permission of instructor.

HST 328 (3 credits) **Roman and Medieval Europe**

Introduces the student to the Middle Ages in Europe, a period of a thousand years from the fall of the Roman Empire to the Renaissance and the array of events and developments which formed the basis for our modern world. Along with important political, military, religious, and artistic advances, the course examines the everyday lives of women and men in this fascinating era.

HST 338 (3 credits) **Modern Japan: 19th and 20th Centuries**

Traces Japan's development from the dramatic period of Westernization under the Meiji Restoration in the 1860s, which set the path for determined growth and expansion in the twentieth century, bringing it into conflict with international powers. The rebuilding of the nation under the occupation brought far-reaching effects for Japan, creating a truly modern nation state that is far ahead of its Asian neighbors. The course also includes aspects of corporate culture, society, and lifestyle that have contributed to the rapid growth and survival of Japan as an independent trading competitor in the 1990s.

HST 339 (3 credits) **US and UK Comparative History**

Focuses on shared themes from the 1880s to the present day, using a variety of approaches to enable students from different disciplines to participate in the course. Examines issues around popular culture, gender, and ethnicity, as well as peoples' responses to major events like the Depression and wars. Concepts from economic history are used to analyze booms and slumps, along with the resulting changes to both the US and the UK. The decline of Britain as a world power and the parallel rise of the US is studied, putting into context the current debates on the post-cold war world order and globalization.

HST/CSC 344 (3 credits) **The History of Computing**

Incorporates a significant research and writing methods component and covers the social, economic, and cultural causes and consequences of significant contributions in the history of computing, from the earliest times to the modern era. A comparative emphasis is made of contributions from all over the world, including Europe (Ada Lovelace, Alan Turing), Japan (Casio Brothers, Shima Masatoshi), and North America (Grace Hopper, Stephen Wosniak). Comparative and cultural issues surrounding the impact of their achievements, and those of other scientists, are also investigated.

Prerequisites: HST 101 or HST 102 and junior status.

HST 347 (3 credits) **Island to Empire: British History Since 1800**

Surveys the history of modern Britain during its formative period of industrialization and empire building. An agrarian society ruled by a powerful aristocracy made way, not without moments of crisis, for an industrial society with a democratic franchise and organized political parties. The interaction between the old order and the new provides this course with its basic theme.

HST 350 Florence only (3 credits) **The History of Florence**

The history of Florence from the Roman foundation to the Renaissance. Florence provides a model for understanding the evolution of the Italian city-republics, although its uniqueness is emphasized by comparison with other Renaissance cities within Italy and throughout Northern Europe. Features the writings of Dante Alighieri, Dino Compagni, Giovanni Villani, and Franco Sacchetti, used for the descriptions of urban topography. Some lessons are scheduled on-site to visit selected monuments.

HST 354 (3 credits)
Of Myths and Monsters: A History of History

The course familiarizes students with the key issues, ideas, practitioners, methodologies, theories, and texts that have influenced the writing of history, and to introduce the resources available in London for those interested in pursuing historical research through original sources. A chronological survey of this kind—from history's earliest origins in Antiquity through to the Middle Ages, the Renaissance, the Enlightenment, and the nineteenth, twentieth, and twenty-first centuries—lets students sample accessible and key texts by writers such as Homer, Thucydides, Vasari, Gibbon, Marx, and Said, while emphasizing a comparative approach to historiography. A number of group visits are made to archival collections in London as well as to Wales. These visits complement class material, give students practical researching skills, and prepare them for their own future research topics.

HST 370–385 (3 credits)
Special Topics in History

An advanced course on a topic of current interest or in a faculty member's specialty.

HST 410 (3 credits)
HST 411 (3 credits)
Senior Essay I and II

Preparation for the senior essays is carried out over two semesters. The first semester is devoted to independent study and research on a topic of the student's choice and interest, and is subject to the agreement and regular guidance of a faculty supervisor. By the end of the first semester, an outline and extensive primary and/or secondary bibliography must be submitted. Completion of the final typed work (10,000 words) is carried out during the second semester and involves regular meetings with a supervisor, additional research as and when necessary, and the regular submission of a number of drafts.

Prerequisite: SSC 304.

HST 406 (3 credits)
History and Culture

The course examines the changing methodologies which have characterized the writing of history in the past thirty years. The meaning of culture and civilization is explored through various cases studies: Annales' mentalités in medieval Montaillou and Martin Guerre; cultural history in the study of English representations of the French and French representations of the English in the eighteenth century; gender in the formation of the man of character and sport in late nineteenth-century USA; and post-

modernism and feminist history in the late twentieth century. The course is designed to be interactive, with lectures, seminars, oral presentations, and class visits to relevant exhibitions. *Prerequisite: Senior status or permission of instructor.*

HST/LIT 425 (3 credits)
**Atrocity and Modernism:
The Literature and History of 20th-century Europe**

Explores the relationship between material change, literary form, politics, and ideas. Writers studied include Kafka, Conrad, Eliot, Babel, Akhmatov, Brecht, Camus, Solzhenitsyn, and Celan. Topics include: technology, anarchism, World War I, Bolshevism, and the Nazi Holocaust. Students also consider modernism in other art-forms, including video presentations of Stravinsky and Nijinsky's *The Rite of Spring* and Eisenstein's *Battleship Potemkin*. *Prerequisite: Senior status.*

HST 483 (3 credits)
HST 486 (6 credits)
HST 489 (9 credits)

Internship in History

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75.

Prerequisites: Senior status and permission of adviser.

HST 497 (1 credit)
HST 498 (2 credits)
HST 499 (3 credits)

Independent Study in History

Independent study is an individual research project on a specific topic in History, and is taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves research, reading, writing, and where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

COURSE DESCRIPTIONS

HONORS PROGRAM

HON 200 (3 credits) **Globalization and Internationalism**

The new millennium is witnessing a world that is developing into a single place. Students explore the complex social, economic, political, cultural, and environmental dynamics of the global society and become familiar with the causes and implications of the globalization process. This seminar fosters an interdisciplinary perspective while enabling students to develop an area of research expertise. *Prerequisite: Permission of Director of Honors Program.*

HON 201 (3 credits) **The Body, Metaphor, and Identity**

Introduces students to some of the historical debates and contemporary ideas surrounding the human body. Students address the ways in which the body functions as a metaphor for interpreting a wide variety of social, political, and cultural issues related to gender, sexuality, and ethnicity, and also study the impact of rationalization, secularization, and technology on the contemporary body. Drawing on examples from literature, art history, philosophy, psychology, and sociology, students consider the relationship between their personal identities and their bodies. *Prerequisite: Permission of Director of Honors Program.*

HON 202 (3 credits) **Ethics and Values**

Provides an introduction to Philosophical Ethics—or Moral Philosophy—and addresses real-life ethical issues from cross-disciplinary perspectives. Students debate moral rules, personal and social ethical dilemmas, and political, professional, and business ethics. Topics relating to human rights, animal welfare, justice, freedom of expression, and Third World aid are some of the areas that are considered within a cross-cultural context. *Prerequisite: Permission of Director of Honors Program.*

HON 203 (3 credits) **The Creative Impulse**

Explores creativity as a concept and its numerous applications. Creativity is currently recognized as an essential prerequisite for success across a wide range of commercial, social, and cultural areas, yet there is little agreement among analysts about the nature of creativity or productive methods for encouraging it and educating for it. Students analyze some commonplace notions of creativity and explore, in practical terms, various techniques that may stimulate the creative “muscle.” *Prerequisite: Permission of Director of Honors Program.*

HON 204 (3 credits) **Science and Mythologies**

Examines the scientific rationale behind many of the familiar myths, legends, and fables about our natural world, which have been passed down through the generations across many different cultures. Topics such as alchemy, astrology, magic and witchcraft, mythical creatures, and “old wives tales” are examined in the context of a variety of interdisciplinary approaches that encompass the earth sciences, the natural and physical sciences, philosophy, history, and anthropology. *Prerequisite: Permission of Director of Honors Program.*

HON 400 (3 credits) **London as Text**

Upper division honors students and study abroad honors students use the framework of this course to pursue independent research on any topic relating to their major which uses London as a primary resource. In consultation with appropriate faculty, students spend the semester creating, developing, and finally presenting a project that interprets London from their chosen disciplinary angle. Students are also required to attend a number of meetings and guest lectures, and to participate in group activities. *Prerequisite: Permission of Director of Honors Program.*

INTERNATIONAL RELATIONS

INR 203 (3 credits) **Introduction to International Relations**

Examines the fundamental history of international relations along with concepts that aid understanding. The course surveys the emergence of the modern states system and studies main features of the international system since 1945. It covers relations between rich and poor countries, factors that influence foreign policy making, and the impact of non-state actors on world politics. Theories about international relations and the increasing globalization of world affairs are explored.

INR 210 (3 credits) **The Evolution of International Systems**

Provides a comparative historical and cultural study of how international systems function. Covering ancient Sumerian, Persian, classical Greek, Indian, Chinese, Roman, and Islamic systems, it indicates how international systems embody cultural assumptions and are based on elaborate rules and practices. It also examines the extent to which the contemporary European system is derived from earlier models.

INR 303 (3 credits) **Conflict and Peace Studies**

Starts with an overview of the different theories of international conflicts, discussing different factors like identity, material factors, security, and basic human needs as forces that underlie the outbreak and reproduction of international conflicts. Focuses on theories of peace and the criteria for successful conflict resolution. Examines forms of outside interventions, ranging from humanitarian intervention to joint military actions, and develops criteria of success. Considers issues that arise in countries which have experienced civil wars, such as the power of war memories or the destruction of civil and political infrastructure. Case studies are used to highlight cultural differences in conflict resolution.

INR 306 (3 credits) **Human Rights**

Examines international human rights as they are practiced in the modern world. It draws from the related disciplines of international law and international relations. It considers the principal global and regional mechanisms as well as actual events, cases, and responses, in an attempt to understand the development of universal human rights.

INR/SCL 313 Florence only (3 credits) **Globalization—A European Perspective**

The new millennium is witnessing a world that is developing into a single space. Students explore the complex social, economic, political, cultural, and environmental dynamics of the global society and become familiar with the causes and implications of the globalization process.

INR 316 (3 credits) **International Institutions**

To understand the role played by international institutions in the international system, participants in this course undertake a survey of the historical factors that gave rise to the creation of international institutions; the decision-making processes taking place within the institutions; and the international political environment in which they operate. The United Nations, NATO, the World Bank, and regional organizations are examined in detail.
Prerequisite: INR 203.

INR 328 (3 credits) **Security Studies**

Presents the contemporary relevance of strategic studies and their particular application to current questions of international security. The course begins with an historical review of international relations and strategic studies. It illustrates how the field of strategic studies has been superseded by security analysis in terms of providing a broad framework for the analysis of international relations. This provides various levels of analysis (individual, national, regional, global) and sectors (military, political, social, economic, environmental) which constitute an appropriate framework for analyzing post-cold war security issues.

INR 337 (3 credits) **Expansion of the European International System**

Examines the origins and nature of the present international system since it expanded from its European base to unite the whole world for the first time in a single, economic, strategic, and political unit. It traces how this system—fashioned in Europe but altered by non-European states—has evolved and asks whether the emerging system is genuinely universal.
Prerequisite: INR 210 or equivalent.

COURSE DESCRIPTIONS

INR 341 (3 credits) **World Politics and the Multinational Corporation**

The multinational corporation (MNC) has become increasingly important in the international system and this course is an inquiry into international political economy. Among the subjects investigated are the relations between home states (USA, UK, Japan) and the MNCs; the impact of MNCs on the process of development; the bargaining power of trade unions vis-à-vis the MNCs; and the attempts to regulate the activities of MNCs through international cooperation in bodies such as the UN, OECD, the Andean Pact, and the EU.

Prerequisite: Junior status.

INR 342 (3 credits) **Diplomatic Methods and Conflict Resolution**

Offers an introduction to three separate but related subjects: the normal practice of diplomacy, techniques of international negotiation, and conflict resolution theory and technique. It begins with a description of what a modern diplomat does both at home and abroad, against the background of diplomatic history and theory. It continues with techniques of international mediation and negotiation and discusses how these are modified by recent conflict resolution theory and technique, including “Track Two” diplomacy. It concludes with a chance to practice negotiation in a three-part simulation, with assessment by the students themselves. Real-life examples are presented throughout. *Prerequisite: Any 100- or 200-level history, international relations or political science course.*

INR 358 (3 credits) **Public International Law**

Topics covered are the nature, domain, and history of public international law and the relationship with municipal law; sovereignty and the concepts of domestic jurisdiction (including intervention); recognition of states; sanctions; the UN and its specialized agencies and their contribution to the development of public international law; the individual’s position; sources and evidences of public international law; and the judicial settlement of international disputes. *Prerequisite: Junior status.*

INR 375–389 (3 credits) **Special Topics in International Relations**

An advanced course on a topic of current interest or in a faculty member’s specialty.

INR 390 (3 credits) **Foreign Policy Analysis**

By considering the economic, political, psychological, or systemic determinates of foreign policy, both theories and practical examples are examined for the reasons made by states for certain foreign policy choices. An underlying assumption examined is that there is a pattern in foreign policy behavior and that decision-makers in similar circumstances tend to make similar choices.

Prerequisite: INR 203.

INR 420 (3 credits) **International Relations Theory**

A capstone course for the international relations major, based on a critical comparison and analysis of schools of thought in international political theory. Both classical and modern texts are studied to highlight continuities and breaks in the evolution of international relations as an intellectual and practical discipline. *Prerequisites: INR 203, INR 210, and at least two 300-level international relations courses.*

INR/SCL 426 (3 credits) **The Sociology of Globalization**

The constraints of geography are shrinking, limits of time and space are being compressed, and the world is becoming a “single place.” Debates about the nature of political, economic, and cultural globalization now occupy central positions in sociology, international relations, cultural studies, geography, and related social sciences. This course provides a senior-level review and critique of the globalization debate—a topic relevant to social science majors about to graduate from an international university, which itself exemplifies many aspects of the issues under discussion. *Prerequisites: Any 200-level or above political science or international relations course and senior status.*

INR 455 (3 credits) **International Political Economy**

Examines contemporary political problems that have their roots in economics: unemployment, the value of the dollar; energy; trade; sanctions; the Bretton Woods system; the role of the US, Japan, and the EU in the world economy; and the transition from planned to market economies and underdevelopment. This course assumes that the separation of politics and economics is artificial, and works toward a synthesis of the two to understand the globalizing world. *Prerequisites: PLT 150, INR 203, ECN 211 and senior status.*

INR 483 (3 credits)
INR 486 (6 credits)
INR 489 (9 credits)

Internship in International Relations

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. *Prerequisites: Senior status and permission of adviser.*

INR 497 (1 credit)
INR 498 (2 credits)
INR 499 (3 credits)

Independent Study in International Relations

Independent study is an individual research project on a specific topic in International Relations, and is taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

LITERATURE

LIT 110 (3 credits)
The City: Experience and Imagination

Explores the variety of city experience as reflected in poetry, fiction, and film. These texts are placed in two contexts, the historical and the imaginative (seen as comprising various “ideal types” of city). Particular stress is laid on the city as a site of intercultural experience as well as on the cultural contrasts and comparisons between particular cities. Drawing on the students’ own international variety of experience, the course offers them the opportunity for some creative work on these topics in addition to their academic writing. *Pre- or corequisite: ENG 111.*

LIT 200 (3 credits)
Ways of Reading

Tackles questions such as: how do modern methods of literary and cultural analysis help international readers develop their capacity for pleasure and independent judgement; why study literature at all; and what is involved in the ways of reading different kinds of writing? Students are involved in classroom activities and problem solving exercises. The texts range widely across cultures. *Prerequisite: ENG 112.*

LIT 210 (3 credits)
Voices of Exile in Film and Literature

An introduction to a wide variety of visual and textual fictions that explore the concepts of exile, migration, and displacement. Works are studied within their historical, political, and cultural contexts, and students also consider ideas relating to language, memory, and home. *Prerequisite: ENG 112.*

LIT 280 (3 credits)
Literary Studies

Introduces a variety of ways of thinking with and about literature. Students examine six texts from different periods and cultures, which are chosen to “speak to each other” in a variety of ways, to encourage a variety of critical approaches, and to promote awareness of the many over-lapping contexts in which they can be situated. The course aims to increase the students’ capacity for pleasure and independent judgement and to prepare literature majors for upper division work. *Prerequisite: ENG 112.*

COURSE DESCRIPTIONS

- LIT 318** (3 credits) **The Great Age of the Novel**
A study of the flowering of the English novel, beginning with Jane Austen and then tracing its development into the dominant literary form by Dickens and Mary-Ann Evans (“George Eliot”) and its sophistication by such late-Victorian masters as Conrad and James.
Prerequisite: ENG 112.
- LIT 319** (3 credits) **The Romantic Movement**
Studies the major English Romantic writers in context. Romanticism was a European-wide movement both in the arts and in thought and behaviour, and this movement is usually thought to have a complex cause-and-effect relationship with such historical developments as the French Revolution, industrialization, urbanization, and the modern versions of nationalism, democracy, and “literature” itself. Among the authors studied are Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.
Prerequisite: ENG 112.
- LIT 322** (3 credits) **The Modern Movement**
Studies the major English, Irish, and American Modernist writers and their interrelationships. The course examines the fictional and poetic techniques of Modernism and their artistic rationale. Among the authors studied are Yeats, Pound, Eliot, Joyce, Lawrence, and Virginia Woolf.
Prerequisite: ENG 112.
- LIT 324** (3 credits) **Travel Writing**
Exposes students to the scope and the power of modern travel writing. Endeavors to provide an intellectual framework for the understanding and analysis of this genre and introduces students to many of the critical texts, which are drawn from Bryson, Raban, and Naipaul, among others. *Prerequisite: ENG 112.*
- LIT 326 Florence and Rome only** (3 credits) **English and American Writers in Italy**
Based on a selection of English and American authors who traveled, resided, and wrote about Italy and who were influenced by Italian images and culture. Readings have been chosen in an effort to define how contact with Italian life and culture affected their work. Authors include Hawthorne, Byron, Ruskin, Twain, James, and McCarthy.
Prerequisite: ENG 112.
- LIT 327 Florence and Rome only** (3 credits) **Italian Literature in Translation**
A sample of great Italian authors of the Middle Ages and the Renaissance and the fictional prose of contemporary Italian literature. Selected readings in translation are chosen from the works of Dante, Boccaccio, Machiavelli, and some modern authors. This course is conducted in seminar format. *Prerequisite: ENG 112.*
- LIT 328 Florence only** (3 credits) **Dante in Translation: Text and Context**
Focuses on readings from the Divine Comedy and other major writings of Dante. Dante’s development of the Medieval concept of love, the role of Florence in the Divine Comedy, and the poet’s new use of the Italian language are discussed, along with the poet’s philosophic and poetic thought. Students learn to approach Dante’s works from a variety of perspectives and thus remain flexible in their interpretation. *Prerequisite: ENG 112.*
- LIT 329 Rome only** (3 credits) **Classical Mythology**
Traditional stories of Greece and Rome are placed in their cultural context. Readings from Greek and Latin literature investigate their sources, nature, and applications to literature and art. Students examine key figures and events in mythology, including gods and major heroes, with on-site analysis of paintings, sculpture, poetry, and mosaics.
Prerequisite: ENG 112.
- LIT/THR 337** (3 credits)
LIT/THR 338 (3 credits)
Shakespeare and His World I and II
Aimed at both the novice and the experienced reader of Shakespeare, this course provides a historical context to Shakespeare’s writing and closely analyzes the poetic and dramatic aspects in his drama. Shakespeare in performance is an integral part of the course and students are expected to see productions of most texts studied.
Prerequisites: Two 200-level literature courses or permission of adviser. A studio fee is levied on this course.

- LIT 341** (3 credits)
Postcolonial Women's Writing
- Focuses on writing by women from the developing regions, who use the richness of the English language from their different cultural vantage points to illuminate a variety of cross-cultural experiences in contemporary societies. The class explores the limitations of Western feminist literary criticism and attempts to establish criteria for analyzing women's literature from Africa, India, and the Caribbean. *Prerequisite: ENG 112.*
- LIT 343** (3 credits)
Culture, Identity, and Literature
- This course exposes students to a variety of literary texts that explore issues relating to cultural identities, hybridity, and marginalization. The growing body of cross-cultural and transnational writing, shaped by different ethnic and gendered perspectives, is studied within theoretical frameworks related to postcolonialism and globalization. *Prerequisite: ENG 112.*
- LIT 353** (3 credits)
The Reading and Writing of Short Stories
- Explores various types of narrative structures and storytelling techniques that are involved in the active reading of fiction. Students examine different kinds of narratives and consider the theoretical debates produced by them. Although most examples are drawn from the modern and contemporary short story genre, the use of narratives in other genres, including film, is included. Students have the opportunity to write their own story. *Prerequisite: ENG 112.*
- LIT 356** (3 credits)
The Reading and Writing of Poetry
- Investigates various types of sequence of expectation and satisfaction that are involved in the active reading of poetry. Examines some of the different ways these sequences have been described and theorized. Examples are drawn from poetry in English since the Renaissance. Students have the opportunity to write poetry. *Prerequisite: ENG 112.*
- LIT 360** (3 credits)
Critical Approaches to Literature
- Introduces students to the major schools of twentieth-century literary criticism. A limited number of literary texts from different genres are analyzed from a variety of critical approaches, including formalist, psychological, Marxist, feminist, and post-structuralist. In this process, students become familiar with the basic theoretical frameworks involved in textual analysis, and are encouraged to develop their own critical orientations. *Prerequisite: ENG 112.*
- LIT 400** (1 credit)
LIT 410 (3 credits)
Senior Essay I and II
- Preparation for the senior essay is normally carried out over two semesters. The first semester is devoted to independent study and research under the guidance of a faculty supervisor; a part draft is to be submitted by the end of the semester. Completion of the work is carried out during the second semester. The senior essay should be between 7,000 and 10,000 words and must be presented as a typed manuscript. *Prerequisites: SSC 304 and senior status.*
- LIT/HST 425** (3 credits)
**Atrocity and Modernism:
The Literature and History of 20th-century Europe**
- Explores the relationship between material change, literary form, politics, and ideas. Writers studied include Kafka, Conrad, Eliot, Babel, Akhmatov, Brecht, Camus, Solzhenitsyn, and Celan. Topics include: technology, anarchism, World War I, Bolshevism, and the Nazi Holocaust. Students also consider modernism in other art-forms, including video presentations of Stravinsky and Nijinsky's *The Rite of Spring* and Eisenstein's *Battleship Potemkin*. *Prerequisite: Senior status.*
- LIT 454** (3 credits)
Tragedy
- Explores the whole arc of tragedy, reading Greek, early modern, and modern texts together with extracts from influential theorists. Students consider the nature and status of "the tragic experience," and whether great tragedies share an essence or merely a network of family resemblances. *Prerequisite: Senior status or permission of instructor.*

COURSE DESCRIPTIONS

LIT 483	(3 credits)
LIT 486	(6 credits)
LIT 489	(9 credits)

Internship in Literature

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. *Prerequisites: Senior status and permission of adviser.*

LIT 490–496	(3 credits)
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Special topics in Literature

An advanced course on a topic of current interest or in a faculty member's specialty.

LIT 497	(1 credit)
LIT 498	(2 credits)
LIT 499	(3 credits)

Independent Study in Literature

Independent study is an individual research or creative project on a specific topic in literature, and is taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this requires research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

MODERN LANGUAGES

French

FRN 111	(4 credits)
FRN 112	(4 credits)

Elementary French I and II

A beginners' course that studies the fundamentals of the French language, concentrating on the spoken word and grammar. The student engages in a wide range of language activities, including conversation, dictation, and aural and written comprehension. Meets four hours weekly for two semesters.

FRN 211	(4 credits)
FRN 212	(4 credits)

Intermediate French I and II

A comprehensive review of all aspects of grammar is undertaken and emphasis is placed on the spoken word. The student engages regularly in a wide range of language activities, including aural and written comprehension, translation, dictation, discussion, and essay work. Meets four hours weekly. *Prerequisites: FRN 111 and FRN 112 or equivalent.*

FRN 300	(3 credits)
FRN 302	(3 credits)

Advanced French I and II

Designed in such a way that they can be taken separately or consecutively (using the same text throughout). Students' linguistic skills are developed so that they can use the language for communication and self expression, both in the present and in future social and professional situations and careers. The three focal points of student activity are exposition, dialogue, and discussion. *Prerequisite: FRN 212 or equivalent.*

Italian offered at Italian study centers only

ITL 103	(3 credits)
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Elementary Italian I

Designed for students who have never taken any Italian language course before and who are not familiar with any other foreign language. Students build an essential vocabulary and assimilate basic grammar and sentence structures. Instruction is based on listening, grammar, and comprehension exercises, repetition, and easy conversation.

- ITL 104** (3 credits)
Elementary Italian II
- A preparatory course to the intermediate level, designed for students who have already had one or two semesters of Italian or who are fluent in Spanish or French. Although the course starts with basic grammar structures of the language, it moves faster than ITL 103. Conversation is a central part of every lesson.
- ITL 105** (1 credit)
Conversational Italian
- Meets two-and-one-half hours per week and gives students a basic vocabulary to deal with authentic everyday situations. It is designed for those students who prefer the communicative approach, with less emphasis on intensive exposure to the language structure.
- ITL 112** (4 credits)
Elementary Italian II
- A preparatory course to the intermediate level, designed for students who have already had one or two semesters of Italian or who are fluent in Spanish or French. Although the course starts with basic grammar structures of the language, it moves faster than Elementary Italian I. Conversation is a central part of every lesson.
- ITL 203** (3 credits)
Intermediate Italian I
- Students develop the ability to communicate in Italian correctly and with expanded vocabulary. Conversational practice, including improved listening and interpreting skills, encourages students to better understand and respond to normal Italian speech. Exercises in reading and writing improve skills in understanding prose and in writing letters and simple messages. Admission to the course is based on admissions test in Italian. *Prerequisite: Successful completion of three or four semesters of Italian.*
- ITL 204** (3 credits)
Intermediate Italian II
- Reviews complex grammar structures and provides students with exercises in reading, composition, phonetics, syntax, and style. Continued practice in conversation provides students with an increased capability to communicate competently in Italian. Admission to the course is based on admissions test in Italian. *Prerequisites: Three or four semesters of Italian.*
- ITL 211** (4 credits)
Intermediate Italian I
- Students develop the ability to communicate in Italian correctly and with expanded vocabulary. Conversational practice, including improved listening and interpreting skills, encourages students to better understand and respond to normal Italian speech. Exercises in reading and writing improve skills in understanding prose and in writing letters and simple messages. Admission to the course is based on admissions test in Italian. *Prerequisite: Two or three semesters of Italian.*
- ITL 212** (4 credits)
Intermediate Italian II
- Reviews complex grammar structures and provides students with exercises in reading, composition, phonetics, syntax, and style. Continued practice in conversation provides students with an increased capability to communicate competently in Italian. Admission to the course is based on admissions test in Italian. *Prerequisites: Three or four semesters of Italian.*
- ITL 303** (3 credits)
Advanced Italian
- With a focus on reviewing complex syntactic structures, this course provides exercises in the use of synonyms and idiomatic expressions. Students analyze readings from contemporary authors, including samples of fiction and articles from newspapers and magazines. *Prerequisite: Permission of the instructor.*

COURSE DESCRIPTIONS

Spanish

SPN 111 (4 credits)

SPN 112 (4 credits)

Elementary Spanish I and II

Meets four hours weekly for two semesters. It is a beginners' course that provides the fundamentals of the Spanish language, concentrating on the spoken word and grammar.

SPN 211 (4 credits)

SPN 212 (4 credits)

Intermediate Spanish I and II

Meets four hours weekly for two semesters. A comprehensive review of all aspects of grammar is undertaken and emphasis is placed on the spoken word. The student engages in a wide range of language activities, including conversation, aural and written comprehension, translation, dictation, reading, and essay work.

Prerequisites: SPN 111 and SPN 112 or equivalents.

SPN 300 (3 credits)

SPA 302 (3 credits)

Advanced Spanish I and II

Designed in such a way that they can be taken separately or consecutively (using the same text throughout).

Students' linguistic skills are developed so that they can use the language for communication and self-expression, both in the present and in future social and professional situations and careers. The three focal points of student activity are exposition, dialogue, and discussion.

Prerequisite: SPAN 212 or equivalent.

MATHEMATICS

MTH 100 (3 credits)

Fundamentals of Mathematics

A requirement for all students whose diagnostic mathematics placement test reveals a need to study the fundamentals of mathematics. It is a comprehensive course dealing with the ordinary processes of arithmetic, measure, area, volume, Pythagoras' theorem, elementary algebra and trigonometry, and graphical methods. This course may not be used to satisfy general education requirements in mathematics.

MTH 105 (3 credits)

Pre-calculus

Designed to provide students with the necessary mathematical background for calculus courses. It covers the fundamentals of real-valued functions, including polynomial, rational, exponential, and logarithmic functions. Inequalities, elementary analytical geometry, and trigonometry are also covered.

Prerequisite: MTH 100 or mathematics placement test exemption.

MTH 112 (3 credits)

The Art of Mathematics

Explores the nature and diversity of modern mathematics through an examination of mathematical themes such as numbers, infinity, axioms, symmetry, and space. The topics studied are placed in their historical and cultural context. Various philosophical questions may also be considered. *Prerequisite: MTH 100 or mathematics placement test exemption.*

MTH 114 (4 credits)

Calculus with Analytical Geometry I

First of a three-semester sequence of courses in calculus. It covers limits and continuity; elementary differentiation and integration; and applications to maxima, minima, and problems in kinematics. It also deals with differentiation of trigonometric and inverse trigonometric functions; approximate methods of integration; and the co-ordinate geometry of the line, parabola, and circle. Only one of the following courses may be taken for credit: MTH 114 or MTH 115. *Prerequisite: MTH 105 or equivalent.*

MTH 115 (3 credits)
Basic Calculus with Applications

Provides a sound understanding of the basic concepts of calculus and analytic geometry and their applications to business, economics, and the social and natural sciences. Emphasis is on practical applications, with numerous examples, rather than theory and proof. Topics include: co-ordinate geometry of straight lines and quadratic curves; differentiation; optimization; and integration. Only one of the following courses may be taken for credit: MTH 114 or MTH 115. *Prerequisite: MTH 105 or equivalent.*

MTH 117 (3 credits)
Discrete Mathematics

Provides an introduction to the important modern subject of discrete mathematics. Topics include: propositional logic; set theory; number systems; relations on sets; and an introduction to algebraic structures.
Prerequisite: MTH 100 or mathematics placement test exemption.

MTH 118 (3 credits)
Probability and Statistics I

An introductory statistics course dealing with descriptive statistics, elementary probability, random variables and probability distributions, mathematical expectation, correlation, and regression. Only one of the following courses may be taken for credit: MTH 118, MTH 212, or MTH/SCL 219. *Prerequisite: MTH 100 or mathematics placement test exemption.*

MTH/PHL 119 (3 credits)
Logic: The Mathematics of Argument

Examines the nature of logic, in particular deductive logic. The topics covered include propositional calculus, methods of deduction, and quantification theory, leading to an introduction to first order logic. Valid and invalid argument forms are investigated. *Prerequisite: MTH 100 or mathematics placement test exemption.*

MTH 212 (3 credits)
Quantitative Methods for Business

A course designed primarily for business majors. Topics include: elementary descriptive statistics; probability; analysis of time series; linear regression; and correlation. Only one of the following courses may be taken for credit: MTH 118, MTH 212, or MTH/SCL 219. *Prerequisite: MTH 100 or mathematics placement test exemption.*

MTH 214 (4 credits)
Calculus with Analytical Geometry II

A continuation of MTH 114, covering exponential, logarithmic, and hyperbolic functions, complex numbers, Taylor-MacLaurin expansions, methods of integration, infinite series, and co-ordinate geometry of the conic sections. *Prerequisite: MTH 114.*

MTH 218 (3 credits)
Probability and Statistics II

Continuing MTH 118, this course is concerned with inferential statistics. It covers sampling distributions, significance testing, and one-way and two-way analysis of variance. *Prerequisite: MTH 118, MTH 212 or MTH/SCL 219.*

MTH/SCL 219 (3 credits)
Quantitative Methods for Social Scientists

Designed primarily for Social Sciences majors, this course covers descriptive statistics, elementary probability, discrete and continuous probability distributions, linear regression, and correlation via training in the use of the Statistical Package for the Social Sciences (SPSS). Only one of the courses MTH 118, MTH 212, or MTH/SCL 219 may be taken for credit. *Prerequisite: MTH 100 or mathematics placement test exemption.*

MTH 220 (3 credits)
Ordinary Differential Equations

Provides an introduction to the solution of ordinary differential equations. Topics include: differential equations of first and second order; series solutions; systems of equations; operator methods; and the Laplace transform. Applications are drawn from various branches of engineering and science. *Prerequisite: MTH 214.*

MTH 221 (3 credits)
Linear Algebra

Provides an introduction to linear algebra. Beginning with the study of systems of linear equations and the algebra of matrices, the theory of vector spaces, linear mappings, and eigen systems is developed. *Prerequisite: MTH 100 or mathematics placement test exemption.*

COURSE DESCRIPTIONS

MTH 224 (4 credits) **Calculus with Analytical Geometry III**

Continuing MTH 214, this course deals with the calculus of functions of several variables. Topics include: partial derivatives; multiple integrals; Jacobians; line and surface integrals; and the theorems of Green and Stokes. The course also covers continuity and analyticity of functions of complex variables. *Prerequisite: MTH 214.*

MTH/CSC 300 (4 credits) **Mathematics for Computing**

The mathematical foundations essential to advanced areas of computer science and systems design are investigated, such as predicate logic, recurrence relations, geometric transformations, proof of correctness, vector analysis, Fourier analysis, queuing theory, graph theory applications, and machines.

Prerequisites: MTH 114, MTH 117 and MTH 118.

MTH 315 (3 credits) **Mathematical Probability and Statistics I**

Covers probability theory; one and higher dimension random variables and probability distributions; moments and generating functions; and specific distributions such as binomial, Poisson, exponential, and normal.

Prerequisite: MTH 224 or permission of instructor.

MTH 316 (3 credits) **Decision Theory**

Analyzes the structures of various types of decision problems. Topics include: decision under certainty; uncertainty and risk; Bayes' strategies; decision trees; linear programming; the transportation algorithm; and elementary game theory. *Prerequisite: MTH 118, MTH 212, MTH/SCL 219, or MTH 315.*

MTH/CSC 329 (3 credits) **Combinatorics and Graph Theory**

Covers the basic elements of number theory and graph theory. It includes selection and distribution problems; recurrence relations; generating functions; graphs; planar graphs; trees; computer representation of graphs; and graph algorithms. *Prerequisites: CSC 117 and MTH 117.*

MUSIC

MSC 252 (3 credits) **Worlds of Music**

Aims to introduce students to aspects of the study of ethnomusicology: the study of traditional and modern non-Western music in cultural context. Because the scope of ethnomusicology is so wide, the main focus of this course is upon non-Western urban popular music, often derived from traditional rural "folk" forms. This music, just as likely to be heard today in the streets and clubs of "global cities" as in what was once called the "Third World," is a typical manifestation of what sociologists refer to as "cultural globalization." This course regards these new, urban, culturally and ethnically hybridized forms of popular music as representative of the dynamic, complex, hybridized culture of global cities in the twenty-first century.

MSC 305 Florence only (3 credits) **Italian Opera**

Introduces the non-musician student to the riches of Italian opera and its plots, melodies, and rhythms through a survey of the leading composers and their most famous works. Each lesson includes many excerpts of recorded material and video tapes are seen frequently. Live performances are attended when available.

MSC 311 Florence only (3 credits) **Puccini and his Operas**

Puccini displays the four great features of Italian Opera: humanity, sincerity, passion, and effect. He is renowned above all for his gift as a melodist, but he was also a new force in musical drama and possessed a great sense of theater. This course increases the student's understanding of Puccini's work by studying the man, the artist, and his most significant operas. Lessons include excerpts of recorded material, videos, and slides.

MSC/SCL 395 (3 credits) **Modern Popular Music**

An interdisciplinary course examining the historical, sociological, esthetic, technological, and commercial elements of contemporary popular music. It deals specifically with the origins and development of contemporary popular music; the relationship between culture, subculture, style, and popular music; and the production and marketing of the music. Audio-visual resources are combined with lectures. *Prerequisite: SCL 150 or equivalent.*

PHILOSOPHY

PHL/MTH 119 (3 credits) **Logic: The Mathematics of Argument**

Examines the nature of logic, in particular deductive logic. The topics covered include propositional calculus, methods of deduction, and quantification theory, leading to an introduction to first order logic. Valid and invalid argument forms are investigated. *Prerequisite: MTH 100 or mathematics placement test exemption.*

PHL 203 (3 credits) **Introduction to Philosophy**

An introduction to the main concepts of philosophy.

PHL/RLG 310 *Florence only* (3 credits) **Mysticism and Magic in Medieval and Renaissance Italy**

Considers how much the present is related to the past, by evincing the role of Renaissance magic in shaping modern science and fantasy. After explaining the function of magic in archaic societies and the representation of hell and demonization in the late Middle Ages, the course focuses on the end of the fifteenth century, when Florence became the center for the new doctrine on the magus ideal formulated by Marsilio Ficino and Pico della Mirandola. This new direction in European thought developed into modern science with the work of Bacon, Copernicus, Harvey, Galileo, Paracelso, and Newton.

PHL 305 *Rome only* (3 credits) **History of Western Philosophy I**

Examines the pre-Socratics and the main teachings of Socrates, Plato, Aristotle, and Plotinus, as well as the influence of Christianity on philosophy, as reflected in the thought of Augustine and Thomas Aquinas.

PHL 306 *Rome only* (3 credits) **History of Western Philosophy II**

Examines the philosophers of the Continental Rationalists (Descartes, Spinoza, Leibnitz), the British Empiricists (Locke, Berkely, Home), and Kant's "Copernican" revolution in philosophy..

PHL 405 (3 credits) **The Modern European Mind**

Considers the development of political, philosophical, and cultural "world-views" in European history and how these shaped intellectual and cultural life in the twentieth century. The course explores discourses related to power, desire, and relativity, and charts the transition between the "modern" and the post-modern. Writers studied include Marx, Freud, Einstein, Foucault, Barthes, and Debord.

POLITICAL SCIENCE

PLT 150 (3 credits)

Introduction to Politics and Government

Introduces students to political science by defining, exploring, and evaluating the basic concepts of politics, political systems, government, state, nation, and ideology. The course outlines some of the central issues in politics: politics as art and/or science; power and authority in the state; political obligation; the rights and duties of the citizen; liberty and equality; economic systems and modes of production; political economy; and liberalism, fascism, Marxism, conservatism, feminism, and environmentalism.

PLT 202 (3 credits)

Comparative Political Systems

Examines the political experience, institutions, behavior, and processes of the major political systems. It discovers uniformities and differences, by examining first the history of relevant countries, then their political institutions, and, lastly, contemporary politics in these countries.

PLT/SCL 206 (3 credits)

Rich World, Poor World

Examines some of the processes that keep the rich world rich and the poor world poor. Historical factors such as colonialism and imperialism are examined, in addition to such sociological issues as rural–urban migration, agricultural innovation, industrial development, the influence of foreign business interests, and “cultural imperialism.”

PLT 222 (3 credits)

Major Political Thinkers

Explores the philosophical background of political thought and indicates the internal variety of political philosophy through the detailed study of some of its most influential thinkers, from the Greeks onward. The unifying theme of the course is the relationship between individuals and the state. This is developed through discussion of the work of specific writers, including Machiavelli, Hobbes, Locke, Rousseau, Paine, Wollstonecroft, Marx, Mill, and Berlin and Arendt.

PLT 301 (3 credits)

British Politics: Inside Parliament

An introduction to the political system of the United Kingdom, employing both theoretical and comparative approaches, particularly with reference to the political system of the USA. Topics include: the constitution; concepts of democracy; the role of the legislature; the Cabinet; the Head of State/Head of Government; the electoral system; pressure and interest groups; and party political programs. Classes are supplemented by a series of meetings at the House of Commons, conducted by a Member of Parliament. The timing and frequency of these parliamentary sessions vary according to the parliamentary sessional calendar. Limited to 30 students; preference is given to declared political science majors. *Prerequisite: PLT 150 or equivalent or permission of instructor.*

PLT 302 Florence and Rome only (3 credits)

Italian Society: From Fascism to the Present

A survey of Italian political life from the rise of fascism to the present time. Topics include: institutional developments since Mussolini; analysis of political parties; the Red Brigade; Italy and the EU; and church-state relations.

PLT 308 (3 credits)

Political Sociology

At the heart of political sociology is a concern with the relationship between the state and society, a relationship that affects every citizen. This course explores the link between the people and the state in three interrelated respects: the concept of power; the theory and practice of revolution; and the way politics affects the social fabric of daily life in technologically advanced, multi-media societies. In addition, a discussion takes place regarding the global significance of political and social change. *Prerequisite: Any 100- or 200-level sociology, political science or international relations course.*

PLT 309 (3 credits)

Citizenship: National and Global

Examines the theoretical, political, and sociological conceptions of citizenship. Tracing the development of the concept from ancient societies to the present day, it examines both the theoretical constructs and the concrete political meanings of the term. The course therefore considers the development of the nation state and the establishment of both legal and social citizenship. The course also addresses the notion of global citizenship in the context of international governance as well as the globalization of both economies and environmental issues.

PLT 314 (3 credits)
The Politics of Development and Environment

Examines the political, economic, ideological, and social dilemmas associated with developing countries and environmental issues. It considers both theoretical and empirical issues in the context of both domestic and international politics. Environmental issues dominate the international political arena alongside development issues, and the tension between the two is often a determining factor in the formation and implementation of policy at both national and international level. The course addresses politics in terms of parties, organizations, and pressure groups/social movements, as well as ideologies, focusing on fostering understanding of the different concerns of industrial and developing nations. *Prerequisites: Any 100- or 200-level politics or international relations course or a sociology of development course.*

PLT/HST 324 (3 credits)
Politics of the Middle East

Deals primarily with the politics of the Arab world, although Iran and Turkey are discussed where appropriate. This course is thematic rather than national in focus. Among the themes discussed are nationalism; revolution; the politics of oil; the great powers and the Middle East; and religion in politics. A previous course in Middle Eastern history is strongly advised. *Prerequisite: PLT 150 or INR 203 or permission of instructor.*

PLT 331 (3 credits)
Ethnicity and Identity

Examines the questions of whether ethnicity is a universal phenomenon, and if ethnic conflict is inevitable. Investigates why ethnicity has become such an important tool of political organization in the twentieth century. This course examines ethnicity, and to a lesser extent nationalism, as the base of social and political belonging and differentiation and the source of both creativity and conflict. Starting with the premise that identity is socially constructed, the ways in which ethnic identity has been formed and used in different societies is examined. Different theories of ethnicity are explored during the course, as well as specific case studies. *Prerequisite: Any lower division social science course.*

PLT 348 (3 credits)
Gender, Politics, and International Relations

Explores the field of gender and politics, addressing both theoretical and practical concerns. Starting from an analysis of gender, the course moves on to a discussion of feminist theory, followed by feminist criticisms of political and IR theory. The main body of the course is comprised of the examination of a range of issues from gendered perspectives, including: political participation; social movements; citizenship and the state; nationalism and irredentism; war; development; international organizations; environmental degradation; and poverty. *Prerequisites: PLT 150 and INR 203 or equivalent.*

PLT 350 (3 credits)
Political Economy

Examines the development of economic thinking, from mercantilism and Adam Smith in the eighteenth century, via Malthus, Ricardo, J. S. Mill, and Marx in the last century, to Schumpeter, Keynes, Friedman, and Galbraith. *Prerequisites: ECN 211 and PLT 150 and junior status.*

PLT 358 (3 credits)
**Beyond the Single Market –
The European Union in the New Millennium**

The course examines the historical beginnings of the European Union, its institutions, and its economic performance. Considers the Single European Act, the European Monetary System, and the social, political, and economic aspects of integration and foreign policy cooperation. *Prerequisite: Junior status.*

PLT 361 (3 credits)
Public Policy

Introduction to the applied field of public policy, covering the policy-making process, policy analysis and evaluation, and comparative public policy. The main purpose of the course is to help students answer the question “How, why, and to what effect are government policies developed?” In particular, through case studies, the comparative focus illuminates the politics of social choice in the Western democratic tradition. *Prerequisites: Junior status.*

COURSE DESCRIPTIONS

PLT 364 (3 credits) **Religion, Identity, and Power**

The recent emergence of a number of religious movements in many parts of the world has raised important questions about the role of religion in political and social life. This course explores the relationship between religion and political identity and its expression between and across nation-state borders. By focusing on a number of religious movements, such as various Islamic revivals and the new Christian right, this course examines the various ways in which religious traditions are used as identity-building vehicles, particularly at times of cultural transition and social change. It examines how the internet and other communication networks serve as mediums for religious identity formation.

PLT 380 (3 credits) **Democracy: Theory and Practice**

Analyzes the many and various ways in which democracy has been theorized, from ancient participatory democracy to more recent notions of radical, deliberative, and associational democracy. It further considers the ways in which political representation has been conceptualized, from the familiar notions of popular election through to delegacy and ideas about group representation. These theoretical frameworks are then used to analyze political practice, looking at different forms of government (federal, unitary, local, national) and different nation states. Students are encouraged to think critically about both the theory and practice of democracy. *Prerequisite: PLT 150.*

PLT 384 (3 credits) **Modern China**

Examines aspects of China's history, such as the Opium Wars, the downfall of the Empire in 1911, the growth of nationalism and the ensuing civil war, the rise and decline of Maoism, and the role of China in world politics, with particular reference to its increasing economic importance. *Prerequisites: Two 100- or 200-level history courses or permission of adviser.*

PLT 386–399 (3 credits) **Special Topics in Political Science**

An advanced course on a topic of current interest or in a faculty member's specialty.

PLT 401 (3 credits) **Political Theory and Concepts**

Investigates the central concerns of Political Theory—such as liberty, equality, and social justice, and considers particular recent developments, including feminism, ecogism, and multiculturalism. The course places particular emphasis on the development of ideas and debates in the twentieth and twenty-first centuries. Writers whose work is of interest for this course include Isaiah Berlin, John Rawls, Robert Nozick, Michael Walzer, David Miller, Anne Phillips, and Will Kymlicka. *Prerequisites: PLT 150 and PLT 222 and senior status.*

PLT 483 (3 credits)

PLT 486 (6 credits)

PLT 489 (9 credits)

Internship in Political Science

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75 *Prerequisites: Senior status and permission of adviser.*

PLT 497 (1 credit)

PLT 498 (2 credits)

PLT 499 (3 credits)

Independent Study in Political Science

Independent study is an individual research project on a specific topic in Political Science, taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves requires research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

PSYCHOLOGY

PSY 150 (3 credits) **Introduction to Psychology**

Introduces students to the major areas within the psychology discipline through current empirical research and theoretical debate. Topics include: scientific methodology; brain functioning; sensation and perception; evolutionary theory; consciousness; development; personality; social psychology; psychopathology; language; and learning. Students discover how psychological research is conducted and how research findings can be applied to understanding human behaviour.

PSY 202 (3 credits) **Introduction to Psychology and Culture**

Looks at the relationship between psychology and culture by investigating the philosophy and methodology of cultural comparisons. The course focuses on what can be learned from relating the study of culture to psychology. Topics include: moral development; patterns of parenting; perception and memory; values, prejudice and stereotypes.

PSY 205 (3 credits) **Social Psychology**

Focuses on the experiences and behavior of the individual in the social world of relationships, media influences, group pressures and prejudices, and cultural and gender stereotypes. Students are introduced to major research findings in each area and are encouraged to discuss a range of explanations for social issues of personal and topical interest.

PSY 221 (3 credits) **Developmental Psychology**

Explores the child's experience of the world. Students examine major theories and issues in development, from conception to adolescence, and the course places particular emphasis on the nature-nurture issue and cross-cultural studies. Topics include: fetal development; physical development; cognitive development; social development; and personality development. Students are encouraged to participate in class discussion and use their own experiences to help understand theoretical issues.
Prerequisite: PSY 150.

PSY 251 (3 credits) **The Biological Basis of Human Behavior**

Exposes students to the relationship between biology and behavior. Students are expected to assess critically the extent to which biological explanations can be used to understand or explain human behavior. Topics covered are: motivational behavior; social behavior; sleep; perception; learning; and memory. Special discussion topics include: sexual behavior; eating disorders; emotion; and consciousness. In addition, the course also looks at perceptual and memory disorders.

PSY 302 (3 credits) **Psychopathology**

Combines lectures, case studies, and audiovisual sessions to introduce students to the field of clinical psychology, psychiatry, and mental health work. An examination of the symptoms and treatment options for a range of mental and emotional disorders, including anxiety, depression, mania, and the schizophrenias, raising a number of important issues for discussion. These include: cultural variations in the definition and diagnosis of disordered states; the social psychological problems of the move from asylums to community care; and criticisms of the medical model of abnormality. *Prerequisite: PSY 150.*

PSY 303 (3 credits) **Psychological Testing**

An applied psychology course that provides a practical consideration of the measurement of personality, creativity, and intelligence. Principles of psychometrics are examined, such as questionnaire design, scoring, reliability, and validity. Students gain experience in using tests, including the 16PF, EPQ, WISC, WAIS, and Myers-Briggs type indicator, which are widely used in the professional fields of occupational, clinical, and educational psychology. An awareness of both the strengths and limitations of testing is encouraged, with a particular focus on gender and cross-cultural issues.
Prerequisites: PSY 150 and MTH 218.

PSY 307 (4 credits) **Experimental Methods in Psychology**

Introduces students to experimental design and methodology in psychology. This is a laboratory class and students carry out experiments, collate data, perform statistical analysis and write laboratory reports. Students also learn how to evaluate empirical research critically.
Prerequisites: PSY 150 or MTH 218.

COURSE DESCRIPTIONS

PSY 310 (3 credits)

Phenomenological Psychology: The Psychology of Personal Experience

The course takes the phenomenological insight that every person lives in “an interpreted world”, constructing a personal understanding of events, and then applies it to a wide range of psychological topics, including: the puzzle of visual illusions; the changing and multiple concept of the self; the phenomena of dreams and altered states of consciousness; and, in particular, the problems of the search for an authentic and meaningful life. The philosophical background to the phenomenological methods of inquiry is studied and students are encouraged to use the method as a way of reflecting on their own personal and cultural experiences. *Prerequisite: PSY 150 or PHL 203 or permission of instructor.*

PSY 315 (3 credits)

Theories of Personality

Provides an introduction to some of the major figures in personality research, including Freud, Jung, Eysenck, Mischel, Rogers, and Kelly. Differences in the way these figures have described the nature and structure of personality, as well as the wide range of research methods they have employed, emphasizes that theories take shape in the context of an individual’s biography, time, and culture. Students are encouraged to examine how each theory provides a way of explaining and understanding human behavior, and to ask: what makes a good theory; how do these theories develop and change; and how can they be compared and criticized? *Prerequisite: PSY 150 or permission of instructor.*

PSY 321 (4 credits)

Counseling Theory and Practice I

Combines theoretical studies of counseling with practical and experiential work. Students are introduced to an integrative, multi-cultural approach to counseling, which draws on a wide-range of theoretical perspectives, including psychodynamic, existential, Gestalt, and cognitive-behavioral approaches. Selected issues are discussed via case examples and videos, and with guest lectures from visiting professionals. An important part of the course is the weekly group session led by a trained group facilitator, in which students meet to reflect on their personal development in a private and confidential setting. The course is assessed via participation, presentations, and essay work. *Prerequisite: PSY 150.*

PSY 322 (4 credits)

Counseling Theory and Practice II

Gives students the opportunity to build on the basic understanding and skills developed in PSY 321, Counseling Theory and Practice I. Students choose to focus on two approaches from a wide range, including psychodynamic, existential, Gestalt, and cognitive-behavioral approaches. Current trends in counseling training and practice are discussed, and issues are examined via the analysis of case studies, helped by videos and guest lectures from visiting professionals. Advanced aspects of the counseling skills model are practiced in classroom exercises, and students continue to participate in a facilitated group for self-development and reflection. The course is assessed via participation, presentations, and essay work. *Prerequisite: PSY 321 or permission of instructor.*

PSY 333 (3 credits)

Learning Theory and Behavioral Techniques

Provides a detailed analysis of the major theories of Thorndike, Watson, Pavlov, Skinner, and Tolman. Different models of learning and their impact on psychology are evaluated. Studies range from learning in animals, to applications of learning theory in the treatment of pathological behavior in humans. *Prerequisite: PSY 150 or permission of instructor.*

PSY 340 (3 credits)

Cross-cultural Psychology

Provides students with an understanding of cognitive processes as understood from the perspective of cross-cultural research. Students are introduced to contemporary research findings and models in the area of cognitive psychology as well as current cross-cultural research. Students are expected to develop a critical knowledge of the cognitive approach in psychology as well as an understanding of cognitive processes. In addition, the focus on research methodology and issues of reliability and validity is used to encourage students to critically evaluate emic and etic aspects of cognitive processes. Topics covered include: cognitive development; perception; language; memory; and problem-solving. *Prerequisite: PSY 150 or PSY 201.*

- PSY 351** (3 credits)
Cognitive Science
- Introduces students to cognitive processes by focusing on three areas: attention, perception, and memory. Students are presented with theories, models, and empirical studies for critical evaluation in all of these areas. Several cognitive phenomena are covered, including: action slips and absentmindedness; agnosias; visual illusions; amnesia; explicit and implicit memory. This course emphasizes issues such as structure, function, ecological validity, and cross-cultural variation. *Prerequisites: PSY 150 and at least one other psychology course.*
- PSY 366** (3 credits)
Human Sexuality
- Explores the role of sexuality in psychological processes. Students evaluate a variety of theoretical approaches, including the biological, social learning, and psychoanalytic perspectives. Topics include sexual development, sexual identity, and sexual orientation. Students examine material from a range of social science disciplines.
- PSY 385** (3 credits)
Childhood, Socialization, and Culture
- Explores the impact of “culture” on aspects of child development. Traditional theories are evaluated with reference to cultural influences. Areas of child development covered include cognitive, gender, and personality development. Discussion topics include the effects of different child rearing practices, social structure, and individualism vs. collectivism. Readings are taken from both anthropological and psychological sources. Students are expected to reflect on their own knowledge and experiences. Familiarity with the psychology of child development will be an advantage. *Prerequisite: PSY 221.*
- PSY 386–399** (3 credits)
Special Topics in Psychology
- An advanced course on a topic of current interest or in a faculty member’s specialty.
- PSY 400** (3 credits)
Theories and Systems in Psychology
- Looks briefly at the history and epistemology of psychological theories with a view to making critical comparisons of four of the main schools of thought: Behaviorism; Cognitive Psychology; Psychoanalysis; and Phenomenology. Seminar topics and discussion include: the mind-body debate; the free-will vs. determinism debate; artificial intelligence; the integration of Western and Eastern psychological theories; and cultural assumptions in psychology. Students are expected to have a thorough grounding in basic psychological theories and concepts before taking this course. This capstone seminar course should only be taken by graduating seniors, preferably in their final semester. *Prerequisite: PSY 150 or permission of instructor.*
- PSY 406** (3 credits)
Senior Projects in Psychology
- Capstone course for graduating psychology majors, providing students with the opportunity to conduct an extended piece of empirical research in an area and topic of their choice. Students independently research, design, conduct, analyze, and report their research with guidance from the course tutor. *Prerequisites: PSY 307 and senior status or permission of instructor.*
- PSY 411** (3 credits)
Theories of Self
- This capstone course for psychology seniors runs as a seminar and offers students the opportunity to explore in depth different cultural theorizations of the notion of “self,” both Western (Jung, Erikson, Rogers) and Eastern (Hinduism, Buddhism, Taoism). *Prerequisite: PSY 150 or permission of instructor.*
- PSY 412** (3 credits)
Psychoanalysis
- Examines the development of psychoanalytic theory and practice. Beginning with Freud’s early studies in hysteria, the course reviews Freud’s seminal ideas on the unconscious, sexuality, and transference; as well as Klein’s contributions to psychoanalytic practice and Fairbairn’s object-relations theory. Influential approaches to child development are also examined, particularly the works of Winnicott and Mahler. Students also review the clinical insights of Kernberg and Kohut on borderline conditions and narcissism, as well as Lacan’s radical re-reading of Freud’s works.

COURSE DESCRIPTIONS

PSY 497 (1 credit)
PSY 498 (2 credits)
PSY499 (3 credits)
Independent Study in Psychology

Independent study is an individual research or laboratory project on a specific topic in psychology, and is taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

RELIGION

RLG 300 (3 credits)
Comparative World Religion

Explores the monotheistic religions of the Near East (Judaism, Christianity, and Islam), those of India and the Far East (Hinduism, Buddhism, and Taoism) and the “new age” faiths. The history and practice of each is studied. Special emphasis is laid on the philosophical and psychological basis of each religion and common themes such as “the self” and suffering. Primary and secondary sources are studied along with an examination of methodology in comparative religion. Guest speakers and class visits form an integral part of the course.

RLG/PHL 310 *Florence only* (3 credits)
Mysticism and Magic in Medieval and Renaissance Italy

Considers how much the present is related to the past, by evincing the role of Renaissance magic in shaping modern science and fantasy. After explaining the function of magic in archaic societies and the representation of hell and demonization in the late Middle Ages, the course focuses on the end of the fifteenth century, when Florence became the center for the new doctrine on the magus ideal formulated by Marsilio Ficino and Pico della Mirandola. This new direction in European thought developed into modern science with the work of Bacon, Copernicus, Harvey, Galileo, Paracelso, and Newton.



SCIENCE

Biology

BIO 107 (3 credits)
Human Biology

The basis for study is the human body. This course deals with the healthy body and what can go wrong, and how the individual can maintain his or her body as far as is currently understood. Topics include: cell structure; viruses and their effect; cancer; digestion; nutrition; circulation; immunity; the endocrine system; and genetics. *Pre- or corequisites: MTH 100 or mathematics placement test exemption and BIO 108.*

BIO 108 (1 credit)
Human Biology Laboratory

Corequisite: BIO 107.

BIO 113 (3 credits)
Biology

Under the broad heading of “the variety of life,” this course deals with the structure of the living cell, patterns of life in the environment, evolution, and a survey of the main phyla of plants and animals. *Pre- or corequisite: MTH 100 or mathematics placement test exemption.*
Corequisite: BIO 114.

BIO 114 (1 credit)
Biology Laboratory

Corequisite: BIO 113.

BIO 120 (3 credits)
Introduction to Ecology

Students have the opportunity to observe the complex interrelations of plants and animals in a variety of habitats. Instruction in theory and methods go hand in hand with practical experience in the field and in the laboratory. *Pre- or corequisite: MTH 100 or mathematics placement test exemption.*

BIO 121 (1 credit)
Introduction to Ecology Laboratory

Corequisite: BIO 120.

BIO/HST 125 (3 credits)
Turning Points in the History of the Life Sciences

Following the turning points in the continuities of culture, this course considers the history of the scientific mind as an unfolding of mankind’s different talents: relating ideas, particularly biological ideas, to the cultural influences of the time. It explores changing conceptions of living beings within the context of the intellectual and social preoccupations of the time in which they arose—from the pre-history of science, through Greek and Hellenistic medicine and philosophy, the Islamic and Chinese influences, the European Renaissance, and the founding of a scientific approach to the study of life in the eighteenth and nineteenth centuries. The culmination of biological thought in the nineteenth century is exemplified by Mendelian genetics and the Darwin–Wallace theory of evolution. The Watson–Crick–Franklin discovery of DNA in the twentieth century is the capstone to 10,000 years of scientific biological thought. *Pre- or corequisites: MTH 100 or mathematics placement test exemption and BIO/HST 126.*

BIO/HST 126 (1 credit)
Turning Points in the History of the Life Sciences: Laboratory

In the laboratory sessions, students examine critically the various experimental techniques developed for the study of living organisms. *Corequisite: BIO/HST 125.*

Chemistry

CHM 113 (3 credits)
Chemistry

This course introduces atomic theory; chemical bonding and the states of matter; the elements which make up the earth, and the main groups I–IV. Chemical thermodynamics and spontaneity, and the principles of equilibrium are also studied. *Pre- or corequisite: MTH 100 or mathematics placement test exemption.*
Corequisite: CHM 114 must be taken concurrently.

CHM 114 (1 credit)
Chemistry Laboratory

Corequisite: CHM 113.

COURSE DESCRIPTIONS

Engineering

ENR 110 (3 credits) Introduction to Engineering Problems

Defines the major branches of engineering and discusses the roles of their practitioners. Consideration is given to the social and technological implications of engineering and to its ethical and moral aspects. Visits to sites of major engineering projects are included. *Pre- or corequisite: MTH 100 or mathematics placement test exemption.*

ENR 120 (3 credits) Introduction to Engineering Drawing

Introduces students to the principles of engineering graphics and the standards and symbols currently employed in the UK, Europe, and the USA. The course includes orthographic projection and graphical methods used in engineering design and production together with technical sketching. The role of the computer in graphics is also considered. *Pre- or corequisite: MTH 100 or mathematics placement test exemption.*

Environmental Science

ENV 101 (3 credits) World Regional Geography

Surveys the whole earth by natural regions and other geographic realms. Basic physical, cultural, socioeconomic, and political factors are considered. *Pre- or corequisite: MTH 100 or mathematics placement test exemption.*

ENV 111 (3 credits) Our Physical World: An Introduction to Geoscience

Introduces the evolution, physical structure, and composition of the earth. Topics include the interaction of the lithosphere, hydrosphere, atmosphere, biosphere, and homosphere. Issues associated with minerals, volcanoes, sediments, weathering, glaciers, oceans, earthquakes, and global tectonics are also discussed. *Pre- or corequisite: MTH 100 or mathematics placement test exemption. Corequisite: ENV 112.*

ENV 112 (1 credit) Our Physical World: An Introduction to Geoscience Laboratory

Corequisite: ENV 111.

ENV 113 (3 credits) Energy: A Global Perspective

From wood-burning and windmills to nuclear power and beyond, this course explores the possibility of managing the available energy sources for the benefit of all. Students explore the global implications of current energy policies through lectures, laboratory sessions, and associated field trips. *Pre- or corequisite: mathematics 100 or mathematics placement test exemption. Corequisite: ENV 114.*

ENV 114 (1 credit) Energy: A Global Perspective Laboratory

Corequisite: ENV 113.

ENV 150 (3 credits) Introduction to Environmental Issues

Examines environmental issues in which the scientific, economic, politico-sociological, and ethical issues are examined. Awareness and appreciation of environmental problems are developed, together with the implications of some of the solutions. *ENV 111 and ENV 112 are recommended, but not required, as a Prerequisite. Pre- or corequisite: MTH 100 or mathematics placement test exemption. Corequisite: ENV 151.*

ENV 151 (1 credit) Introduction to Environmental Issues Laboratory

Corequisite: ENV 150.

Physics

PHY 113 (3 credits) Physics I

First of a two-semester sequence of physics courses. This course is concerned with Newtonian mechanics. Topics include: forces; motion in one and two dimensions; convected particles; work and energy; equilibrium; oscillatory motion; and stress and strain. *Pre- or corequisite: MTH 114. Corequisite: PHY 114.*

PHY 114 (1 credit) Physics I Laboratory

Corequisite: PHY 113.

PHY 115
Physics II

(3 credits)

A continuation of PHYS 113, covering sound and wave motion, geometrical and physical optics, heat and thermodynamics. Practical applications are stressed, where appropriate. *Prerequisites: MTH 114, PHY 113, and PHY 114. Corequisite: PHY 116.*

PHY 116
Physics II Laboratory

(1 credit)

Corequisite: PHY 115.

SOCIAL SCIENCES

SSC 100

(3 credits)

**Self, Culture, and Society:
An Introduction to the Social Sciences**

Introduces students to the shared basic ideas that inform and animate debate in the Social Sciences. Students also trace the historical development of political science and international relations, psychology, sociology, and anthropology, exploring the different perspectives and methodologies. The course title refers to different levels of study, each branch of the social sciences being traditionally associated with one of these levels. Students examine the focus of each of these branches and analyze how their different perspectives add to the understanding of human life. The methods of each of these fields are used to examine contemporary themes.

SSC 101

(3 credits)

Rights, Choices, and Values

This course considers the concepts of rights, choices, and values from a wide range of cultures. The course aims to help set up the intercultural dialog integral to the Richmond Core curriculum through critical examination of varied texts and case studies. This course is required in the Richmond Core curriculum.

SSC 304

(3 credits)

Research and Writing Methods

Students learn to conceptualize, research, draft, and revise academic papers. A series of important skills is practiced: how to formulate a thesis; how to plan a paper; how to research a topic; and how to annotate and present the final paper. In addition, students practice summary writing, paraphrasing, and paragraphing. Instructor and peer guidance is provided throughout the process of writing. *Prerequisites: Junior status and ENG 112.*

SSC 323

(3 credits)

Contemporary British Culture

Taught intensively over four weeks as the basis for a cultural adjustment program, giving students on the International Internship Program a broad and general understanding of salient features of contemporary life in Britain. By describing such institutions and practices as education, class, ethnicity, monarchy, political culture, attitudes to welfare and to business, perceptions of the USA, and leisure trends, students are prepared to enter the British workplace better briefed and more knowledgeable about the concerns and assumptions of their UK colleagues.

COURSE DESCRIPTIONS

SSC 410 (3 credits) **Senior Seminar/Senior Essay**

Capstone seminar course in social sciences, reinforcing an interdisciplinary approach to the discussion and analysis of issues, with reference to the different perspectives brought by each of the four areas: international relations, politics, psychology, and sociology. The seminar is based around a central theme, which is addressed by lectures, readings, and class presentations. Students take part in group discussions and produce an extended research paper. The seminar topics are chosen by the course instructors and therefore vary. Given the high levels of analysis required, this course should be taken only by graduating seniors, preferably in their final semester. *Prerequisite: SSC 304.*

SSC 483 (3 credits)

SSC 486 (6 credits)

SSC 489 (9 credits)

Internship in Social Science

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. *Prerequisites: Senior status and permission of adviser.*

SOCIOLOGY

SCL 150 (3 credits) **Introduction to Sociology**

An introduction to the study of society. Topics include: the origins and nature of sociology and the social sciences; society and culture; social institutions such as family, education, and work; socialization; social stratification, power, and social change; industrialization; and urbanization.

SCL 202 (3 credits) **Religion, Magic, and Witchcraft**

Examines how religion influences ways of viewing the world, why many peoples of the world practice magic, and the phenomenon of “witchcraft.” The course investigates religion as a cultural system that generates symbolic meanings and creates ways of understanding the world. Students examine religion as a human cultural universal by exploring the ways in which it is practiced in many different parts of the world, including an exploration of magic and witchcraft as part of religious practice.

SCL/ANT 203 (3 credits) **Beginning Social Research**

Familiarizes students with the basics of social research: the formulation of research questions, the structure of research projects, the most common types of social research methodologies, the use of new technologies in social research, and simple analysis of qualitative and quantitative data. *Prerequisites: Any 100-level social science course and MTH 100 or equivalent.*

SCL/PLT 206 (3 credits) **Rich World, Poor World**

Examines some of the processes which keep the rich world rich and the poor world poor. Historical factors such as colonialism and imperialism are examined, in addition to such sociological issues as rural–urban migration, agricultural innovation, industrial development, the influence of foreign business interests, and “cultural imperialism.”

SCL 210 (3 credits) **Gender and Culture**

An introductory course that investigates how male and female differences can be interpreted across a range of cultural variables. The rich resources of international literature and film are examined to illuminate how individual voices reflect these differences on both a local and a global level.

SCL/CSC 215 (3 credits)
Social Issues in Computing

Covers diverse aspects of computers and the impact of information technology on privacy, legality, and security of information. Students discuss the social impacts of computers on day-to-day life, including work, the home, the business world, medicine, telecommuting, and time in general. The use of computers for creativity via artificial intelligence and their application in different societies are also considered. *Prerequisite: SCL 150 is recommended, but not required.*

SCL/MTH 219 (3 credits)
Quantitative Methods for Social Scientists

Designed primarily for Social Sciences majors, this course covers descriptive statistics, elementary probability, discrete and continuous probability distributions, linear regression, and correlation via training in the use of the Statistical Package for the Social Sciences (SPSS). Only one of the courses MTH 118, MTH 212, or SCL/MTH 219 may be taken for credit. *Prerequisite: MTH 100 or mathematics placement test exemption.*

SCL 266 Florence and Rome only (3 credits)
Culture and Style in Italy

This course is recommended for students with an interest in contemporary Italian culture and style. The course focuses on aspects of post-war Italian culture including cuisine, fashion, religious beliefs, and the persistence of superstitions. Lectures will cover topics such as the role of women, food and wine as cultural traditions, the effect of social change, and culture and style and will be supported by field visits, cooking and wine tasting lessons, and audio visual materials.

SCL 301 (3 credits)
Modern Britain: A Social Analysis

A general presentation of British society for students who arrive in the country and are keen to know about its way of life, patterns of thought, and socio-cultural background. Topics include: the growth of urban and industrial Britain; British class structure and social mobility; the welfare state; race; politics; and the position of women. This course also examines Britain's changing status in the world and the effect this has had on socio-political attitudes and behavior.

SCL 302 Florence only (3 credits)
Modern Italy: A Social Analysis

Highlights the characteristics of contemporary Italian society. The sociological framework provides the possibility of comparing modern Italy with other Western nations. This course presents a brief historical and geographical overview and identifies key issues in present-day Italy, such as religion, social and economic inequality, the Mafia, the condition of women, and the family.

SCL 305 (3 credits)
Minority and Ethnic Relations

Investigates the dynamics of relations between majority and minority groups in cultures throughout the world. Students examine the formation of ethnic groups, the role of ethnic groups in both social organization and the distribution of goods, and the symbols and uses of ethnic identity, as well as issues of prejudice and discrimination, assimilation, pluralism, and segregation. This is followed by analysis of selected concrete case studies.

SCL 308 Florence only (3 credits)
Women in Italian Society

Explores women's conditions in Italy today in relation to economic conditions and the social, geographic, and political environment. Relevant debates on women in today's context enlighten the historical process through which Italian women have acquired their position in society. The aim is to understand the differences among Italian women's lives, perspectives, and desires according to different social factors.

SCL/ANT 309 (3 credits)
Researching Social Life

Examines the methods commonly used by sociology and anthropology, stressing that methods are dictated by the kinds of questions being asked. The advantages and disadvantages of statistical surveys, participant observation, historical research, and textual analysis are examined. The course introduces students to important online resources and use of analytical tools. *Prerequisite: SCL/ANT 203 or equivalent.*

SCL/INR 313 Florence only (3 credits)
Globalization—A European Perspective

The new millennium is witnessing a world that is developing into a single space. Students explore the complex social, economic, political, cultural, and environmental dynamics of the global society and become familiar with the causes and implications of the globalization process.

COURSE DESCRIPTIONS

- SCL 330** (3 credits)
Deviance, Crime, and Society
- Introduces students to the history and development of theories of deviant and criminal behavior. Positivist, subcultural, interactionist, conflict, and critical approaches are analyzed. Juvenile delinquency, “white collar” crime, rioting, and crimes against women are considered within an analysis of criminal law and policing.
- SCL 356** (3 credits)
The Sociology of Environmentalism
- Pursues two main lines of inquiry: the first investigates the ecological critique of industrialism and the alternative social structures that are proposed by environmentalists; the second explores the nature of the environmentalist movement, its adherents, and its political activity. A question running through the course concerns the extent to which environmentalism is a product of liberal, affluent societies. The range of ideological viewpoints encompassed by environmentalism is explored. *Prerequisite: SCL/PLT 206 or equivalent.*
- SCL 372** (3 credits)
Sociology of Culture and Subculture
- Introduces the field of cultural studies by examining various concepts of culture, the positions taken in cultural criticism, and the relationship between social and cultural transformation. Emphasis is placed on differences between US and UK culture and the theory of subcultures. *Prerequisite: SCL150 or equivalent.*
- SCL 380–394** (3 credits)
Special Topics in Sociology
- An advanced course on a topic of current interest or in a faculty member’s specialty.
- SCL/MS 395** (3 credits)
Modern Popular Music
- An interdisciplinary course examining the historical, sociological, esthetic, technological, and commercial elements of contemporary popular music. It deals specifically with the origins and development of contemporary popular music; the relationship between culture, subculture, style, and popular music; and the production and marketing of the music. Audio-visual resources are combined with lectures. *Prerequisite: SCL 150 or equivalent.*
- SCL 413** (3 credits)
Origins of Sociological Theory
- Explores the theoretical and methodological roots of sociology—primarily the works of Marx, Durkheim, Weber, and their followers. This course provides the theoretical basis for understanding the works of later twentieth-century and contemporary social theorists, and focuses particularly on primary source materials. *Prerequisite: Senior status.*
- SCL 421** (3 credits)
Readings in Sociological Theory
- Focuses upon readings in specific contemporary sociological traditions. An emphasis is placed on readings from primary source material, which is analyzed within the context of specific developments in sociological thought, such as structuralism, poststructuralism, and postmodernity. *Prerequisite: SCL 413 or equivalent.*
- SCL/INR 426** (3 credits)
The Sociology of Globalization
- The constraints of geography are shrinking, limits of time and space are being compressed, and the world is becoming a “single place.” Debates about the nature of political, economic, and cultural globalization now occupy central positions in sociology, international relations, cultural studies, geography, and related social sciences. This course provides a senior-level review and critique of the globalization debate—a topic relevant to social science majors about to graduate from an international university, which itself exemplifies many aspects of the issues under discussion. *Prerequisites: Any 200-level or above political science or international relations course and senior status.*
- SCL 430** (3 credits)
Feminisms/Masculinities and Society
- Familiarizes students with current theoretical and substantive debates concerning the social construction of gender. The first part concentrates on the developing theorization of female and male social roles, particularly the influence of feminism on the growing field of masculinity studies. The second part adopts a cross-cultural perspective and deals with concrete examples of the differing gender regimes in a range of societies. *Prerequisite: SCL 150 or equivalent.*

SCL 483 (3 credits)
 SCL 486 (6 credits)
 SCL 489 (9 credits)

Internship in Sociology

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. *Prerequisites: Senior status and permission of adviser.*

SCL 497 (1 credit)
 SCL 498 (2 credits)
 SCL 499 (3 credits)

Independent Study in Sociology

Independent study is an individual research project on a specific topic in Sociology, taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

SYSTEMS ENGINEERING AND MANAGEMENT

SYS 300 (3 credits)
Systems Quality Assurance

Aims to give students an appreciation of the importance of quality; a knowledge of quality technology and the methods of tools of quality assurance; an understanding of the role of suppliers and customers in assuring quality; a familiarity with quality management standards and standardization; and the skills to contribute to both the development and operation of quality management systems. *Prerequisite: MTH 212 or MTH 118.*

SYS 390 (3 credits)
Systems Project II

Practical work extends the scope of SYS 290, introducing elements of group work and extending the capacity to handle real problems. *Prerequisite: SYS 290.*

SYS 400 (3 credits)
Case Studies in Systems Engineering and Management

Comprises case studies of real systems which have failed and an analysis of what caused the failure and the steps needed to implement quality controls to ensure future adequacy. *Prerequisite: SYS 300.*

SYS 440–459 (3 credits)
Special Topics in Systems Engineering and Management

An advanced course on a topic of current interest or in a faculty member's specialty.

SYS 483 (3 credits)
SYS 486 (6 credits)
SYS 489 (9 credits)

Internship in Systems Engineering and Management

This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. *Prerequisites: Senior status and permission of adviser.*

COURSE DESCRIPTIONS

SYS 491 (3 credits)
SYS 492 (3 credits)

Senior Project I and II

A senior year capstone project requiring the student to use all the skills acquired in the preceding years to demonstrate his or her ability to put together a project proposal, taking account of technical, legal, financial and quality issues, commencing with a top level view, and hierarchically decomposing it into practical implementation steps. Full documentation must be supplied together with a professional peer presentation.

Prerequisites: SYS 390, senior status, and permission of instructor.

SYS 497 (1 credit)
SYS 498 (2 credits)
SYS 499 (3 credits)

Independent Study in Systems Engineering and Management

Independent study is an individual research or laboratory project on a specific topic in Systems Engineering and Management, taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.

THEATRE ARTS

THR 105 (3 credits)
Fundamentals of the Performing Arts

For those interested in the performing arts, but with no experience, this class introduces students to the fundamentals of being in front of an audience. Games, storytelling, role-playing, playwriting, and improvisation are used to explore the basic tenets of performance, whether for a presentation, a business meeting, or in a theatrical production.

THR 204 (3 credits)
Appreciation of Performing Arts

Introduces concepts concerning the relationship between performance and human cultures. Different types of theatrical genre are examined and skills in forming critical judgements are developed. Attendance at various performances in Greater London are an important aspect of this course.

THR 206 (3 credits)
Beginning Directing

Introduces students to the principles of directing and visual interpretation for the stage. The fundamentals of stage focus are closely examined, along with the natural areas of visual strength in blocking/staging. Communication techniques for audiences through stage pictures and composition are evaluated, and the underlying principles of the relationship between actor and director and the relationships between characters are examined. The course is a practical one: students work on exercises and progress to practical directing sessions of short assigned scenes, then on to a final chosen scene to be presented to an audience.

THR 210 (3 credits)
Writing for Stage and Screen

Encourages creativity as students are guided toward writing scenes for the stage and for TV and film. The course focuses on the development of character and plot while investigating a variety of styles and lay-out formats. Group and team work is encouraged as well as discussions and critique. *Prerequisite: ENG 111.*

- THR 305** (3 credits)
Voice for the Stage
- The development of breathing and vocal control through relaxation in order to strengthen without straining and to improve the range, tone, and placement of the voice. This course concentrates on applying the techniques learned to the oral interpretation of classical and modern monologues, poetry, and prose.
- THR 310** (3 credits)
Modern Drama
- Examines Modernism critically from the perspective of European drama. Beginning with mid-nineteenth century Russian drama and continuing to the Theatre of the Absurd, this course stresses the resurgence of theatre as a vital esthetic experience and concentrates on the multiplicity of theatrical approaches employed by such dramatists as Gorky, Chekhov, Brecht, Shaw, and Pirandello. *Prerequisites: Two 200-level literature courses or permission of adviser.*
- THR 313** (3 credits)
Acting Skills
- Performance skills for students with little or no previous experience. This course focuses on developing the voice and body through group work consisting of improvisational exercises, the use of stage space, basic blocking, and the interpretation of character and text. Group interaction is an important aspect of this course.
- THR 316** (3 credits)
Screen Acting Techniques
- Develops acting skills specifically relating to the camera—i.e., for film and television. In a series of practical workshops and lectures, students are introduced to the disciplines of acting for the camera, and discover the basic differences between acting for television and for film (as opposed to the theatre) as well as various styles of performance. Students learn how to develop realistic, sincere, and believable performances. They also become practiced in dealing with the maintenance of performance under adverse technical conditions. Students gain experience in the rehearsal process, the development of a character, and shooting procedures. They are also given exercises in interviewing for screen work and screen testing.
- THR 320** (3 credits)
World Theatre
- Provides an overview of the theater of different non-European countries. Mainly issue-driven writing is examined, especially drama as a reaction to oppression. The course also identifies styles that are specific to certain cultures in an aim to identify cultural influences from one country to another. Students are encouraged to contribute insights from their own individual cultures.
- THR 321** (3 credits)
Stage Fighting
- An introduction to the use of violence on the stage. Both classical swordplay and modern unarmed fighting are covered in this class, with an emphasis on safety, correct usage of weapons, and the techniques involved in stage combat. Particular emphasis is placed on the concepts behind the techniques and the use of violence in a theatrical situation.
- THR/LIT 337** (3 credits)
THR/LIT 338 (3 credits)
Shakespeare and His World I and II
- Aimed at both the novice and the experienced reader of Shakespeare, this course provides a historical context to Shakespeare's writing and closely analyzes the poetic and dramatic aspects in his drama. Shakespeare in performance is an integral part of the course and students are expected to see productions of most texts studied. *Prerequisites: Two 200-level literature courses or permission of adviser. A studio fee is levied on this course.*
- THR 358** (3 credits)
Classical British Theatre: Shakespeare's Friends and Rivals
- Examines the classical traditions in the British theatre as they are perceived today. Students look at a range of plays from the Renaissance tragedies of Christopher Marlowe, William Shakespeare, and the work of John Webster to the twentieth-century tragedies of dramatists such as T.S. Eliot. Lectures concentrate on textual analysis and criticism, and a number of visits to see plays (usually five) are undertaken; where possible, these are productions of plays taught in this course. *Prerequisite: THR 204 or equivalent.*

COURSE DESCRIPTIONS

- THR 359** (3 credits)
Contemporary British Theatre
- A survey of the major developments in the British theatre since the 1950s. The writers' theatre movement at the Royal Court Theatre and the work of John Osborne and Harold Pinter are studied, as well as the work of major dramatists such as Peter Shaffer and Tom Stoppard. Students see a number of experimental and controversial productions and discuss current playwriting and acting techniques. *Prerequisite: THR 204 or equivalent.*
- THR 386–399** (3 credits)
Special Topics in Theatre
- An advanced course on a topic of current interest or in a faculty member's specialty.
- THR 401** (3 credits)
Classical Acting
- Styles of performance for the classical text are taught and practiced. Students learn techniques of stage speech and movement appropriate for performing classical roles from plays by Shakespeare, Molière, ancient Greek drama, Restoration English playwrights, and others. Class rehearsal of scenes and discussions of texts are a focus of the class. *Prerequisite: THR 313 or equivalent.*
- THR 403** (3 credits)
Modern Acting: Style and Technique
- With a focus on European and American playwrights, students are introduced to theories and practices for performance of modern plays, from Ibsen, Chekov, and Wilde, to contemporary writers such as Shaffer, Genêt, and others. Class work includes exercises in interpreting, rehearsing, and performing from modern texts.
- THR 404** (3 credits)
Audition Techniques
- Focuses on the selection and presentation of monologues, both classical and modern, for audition purposes. This course also develops the students' ability to critique and guide their fellow actors to a more effective performance. Mock auditions are staged to introduce the student to the risk and stress of the real audition situation. *Prerequisites: THR 313 and THR 401 or THR 403 or equivalent.*
- THR 420** (3 credits)
THR 422 (3 credits)
Senior Project in Theatre: Practical
Senior Project in Theatre: Theory
- Capstone courses for the theatre arts degree. The courses are available only to fourth year Richmond degree students. The project is in the form of an independent study. The student and the instructor agree to the project in advance. If the practical option is chosen, the student must produce a performance at the conclusion of the project. If the theoretical option is chosen, the student must produce a substantial written paper at the conclusion of the project.
- THR 442** (3 credits)
Irish Modern Drama
- Surveys Irish drama from the 1890s to the present day. It shows how Ireland's history has shaped its drama, with many plays from the last 30 years using historical material to explore the country's current problems. However, there is a refreshing amount of new wave Irish drama, which concentrates on the new Ireland that has emerged in the last decade.
- THR 483** (3 credits)
THR 486 (6 credits)
THR 489 (9 credits)
Internship in Theatre
- This program offers upper division students the opportunity to do a full-time internship in London. The experience provides the opportunity to enhance and complement classroom learning and to develop professional skills and competencies. The Internship Program is open to students who are enrolled in a degree program and who have successfully completed 90 credits with a minimum GPA of 2.75. *Prerequisites: Senior status and permission of adviser.*
- THR 497** (1 credit)
THR 498 (2 credits)
THR 499 (3 credits)
Independent Study in Theatre
- Independent study is an individual research or creative arts project on a specific topic in Theatre, taken under the direct supervision of a full-time faculty member. Independent study requires in-depth academic work on a specialized topic, and this involves research, reading, writing, and, where appropriate, experimentation. Students wishing to pursue independent study must have at least 60 credits and a GPA of 3.0 or higher. Independent study is not available to study abroad students.