Appendix A: Undergraduate Course Descriptions

The course descriptions for undergraduate or graduate courses offered by Monmouth University are listed alphabetically by discipline and in numerical order within discipline in this section. This introduction may prove helpful in interpreting this information.

Courses with odd numbers usually are given in the fall semester, while courses bearing even numbers usually are given in the spring semester.

Undergraduate Courses:

The number by which a course is designated indicates the relative level of the course. Those numbered “050” (undergraduate developmental) are not eligible for credit toward graduation requirements. Those numbered 100 to 299 are for undergraduate freshmen and sophomores. Those numbered 300 to 499 are for undergraduate juniors and seniors.

Graduate Courses:

The graduate courses are numbered 500 to 799. The number by which a course is designated usually indicates the relative level of the course. Each discipline is identified by a letter code. This code precedes the course number in course listings and class schedules.

Prerequisites for all courses must be met unless waived by the chair of the department offering the course, or for graduate students, by the program director. Registration for courses for which the Prerequisites have been waived must be done by the academic department that waived the Prerequisite.

Please note that this list was created in June 2012. Monmouth University maintains the most current course descriptions on their WEBsite, which can be accessed through the University’s WEBSstudent menu (https://webadvisor.monmouth.edu/datatel/openweb/st/stmenu.html).
AFRICANA STUDIES

AA 225 Cr. 3.0
_African World Literature_
Major works from African, West Indian, and African-American traditions.
Course Type(s): CC

AA 246 Cr. 3.0
_Introduction to African-American Studies_
Introduction to a broad range of themes in their historical context, from the African origin to the formation of African-American societies and cultures in the African Diaspora. Other themes include the rise and fall of slavocracy, the era of Civil Rights struggles, and the establishment of space for African-Americans to tell their stories as well as study their experiences and cultures.
Course Type(s): none

AA 298 Cr. 3.0
_Special Topics in Africana Studies_
An intensive study of a particular subject or problem in Africana Studies to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

AA 302 Cr. 3.0
_African-American Seminar_
The culture, history, experiences, and artistic and literary expression of African-Americans illuminated by an examination of several academic disciplines that are reviewed for biases and new paradigms suggested.
Prerequisite: Nine credits in African-American Studies elective courses.
Course Type(s): none

AA 499 Cr. 3.0
_Independent Study in African-American Studies_
An intensive study of a particular subject or problem in Africana Studies to be announced prior to registration.
Course Type(s): none

ANTHROPOLOGY

AN 103 Cr. 3.0
_Cultural Anthropology_
Introduction to comparative study of human beliefs and behavior. Emphasis on the concepts used in studying human culture; analysis of non-Western societies with respect to ecology, economy, social and political organization, religion, and art; implications for American society.
Course Type(s): SS.SV

AN 104 Cr. 3.0
_Human Evolution and Racial Variation_
Introduction to physical anthropology; racial variation and the evolutionary origins of the human species; concepts and principles used in the study of living and fossil evidence for human evolution and genetic diversity; unique influence of culture on human biology; human evolution in the present and future.
Course Type(s): SS.SV

AN 107 Cr. 3.0
_Introduction to Archaeology_
Introduction to archaeological techniques, concepts, and principles; recovery and interpretation of evidence; examples from the prehistoric cultures of the Americas, Europe, Africa, and Asia.
Course Type(s): SS.SV

AN 113 Cr. 3.0
_Cultures of the World_
Common and distinctive features of culture in each of several broad zones around the world, including native North America, native South America, northern Asia, southern Asia, and sub-Saharan Africa; descriptive overview with emphasis on the variety of human experience and achievement.
Course Type(s): CC, GU, SS.SV

AN 115 Cr. 3.0
_Prehistoric Cultures_
Descriptive survey of prehistoric cultures from the origins of culture to the earliest civilizations in the Old World and the Americas; emphasis on the variety of human experience and achievement; consideration of major trends in cultural development.
Course Type(s): none

AN 198 Cr. 1.0 - 3.0
_Special Topics in Anthropology (100 Level)_
An intensive study of a particular subject or problem in anthropology to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none
AN 218 Cr. 3.0
*Comparative Family History*
Analyze the history of the family through fiction, monographs, articles, and primary documents. It will explore how the family developed, why it persisted, and the many forms it has taken. Consider how family size and structure, roles, functions, and power dynamics have varied, not only according to historical era, but also along class, ethnic, regional, religious, and national lines. Also listed as Gender Studies 218 and History 218.
Course Type(s): GS

AN 220 Cr. 3.0
*History of Advertising*
Designed to develop a critical understanding of the historical evolution of advertising in the United States, with critical attention to race, class, gender, and sexuality. We will explore the economic, political, and cultural factors that have contributed to the development of advertising, and which have been affected by advertising. Some of the topics to be discussed include: the rise of national advertising; the relation of advertising to consumption; advertising to children; political advertising, the relationship between advertisers and the medium in which they appear (magazines, television, radio, etc.) and broadcast and internet advertising. Also listed as History 220 and Gender Studies 220.
Course Type(s): GS, HSUS

AN 251 Cr. 3.0
*Primate Behavior and Human Evolution*
Behavior of the human species' closest relatives with emphasis on chimpanzees, other apes, and Old World monkeys; social life, ecological adaptations, psychological mechanisms; evolutionary origins of human behavior.
Prerequisite: Anthropology 103.
Course Type(s): none

AN 263 Cr. 3.0
*Peoples and Cultures of South America*
A social and cultural survey of representative peoples in South America and the Caribbean, emphasizing the comparative study of economic, political, social, and religious organization.
Prerequisite: Anthropology 103 or 113. Note that the prerequisite is waived when this course is taken in fulfillment of the Cross-Cultural Studies requirement.
Course Type(s): CC

AN 264 Cr. 3.0
*North American Indians*
A survey of the cultural, social and linguistic diversity of Pre-Columbian North American societies; problems of contemporary Indian groups. Also listed as History 264.
Course Type(s): CC, GU

AN 266 Cr. 3.0
*Historical Archaeology*
An introduction to historical archaeology, the archaeology of the modern world (c. 1492+). It focuses on archaeological sites in the United States. Students are introduced to the various written and material sources that historical archaeologists use to interpret the recent past, including artifacts, vernacular architecture, grave markers, documents, photographs, and other visual sources. Archaeological field methods are also introduced with a minimum of one class period spent excavating an archaeological site. Also listed as History 266.
Prerequisites: Anthropology 103 or History 103; and English 101 and 102 or permission of the instructor.
Course Type(s): WT

AN 267 Cr. 3.0
*Tourism Around the World*
Introductory examination of the various factors that impact tourism in different parts of the world. Students will consider political, social, economic, cultural, and environmental factors that affect tourists, local populations, and the physical destinations. Also listed as Geography 267.
Course Type(s): CC, GU, SUS

AN 268 Cr. 3.0
*Urbanization Around the World*
An introduction to urbanization on a global scale. Historical and contemporary development of the world’s cities using geographical approaches to urban analysis. Includes examination of urban forms and the local global, social, cultural, economic, political, and physical processes that shape and are shaped by cities, and the large and rapidly growing cities of the developing world that dominate and control the global economy. Also listed as Geography 268.
Course Type(s): CC, SUS

AN 269 Cr. 3.0
*Peoples and Cultures of Africa*
A social and cultural survey of representative African peoples, economic, political, and social organization, ritual practices and beliefs. Relationship of traditional cultures
AN 271 Cr. 3.0

Culture and Aging
Examines the process of growing old in different human societies. The role of culture in dealing with biological growth is emphasized. The status of the aged in different human societies is explored, as are the changes in the position of the aged as a result of industrialization. The role of ethnicity in growing old in America is also examined.

Prerequisite: Three credits in Anthropology, Sociology, or Psychology.

Course Type(s): none

AN 272 Cr. 3.0

Magic, Witchcraft, and Religion
Explores motivation of human behavior within the realm of religion and the supernatural with an emphasis on the role of gods and goddesses. A cross-cultural approach will be used while exploring cultures both past and present across the globe. Also listed as Religious Studies 272.

Prerequisite: English 101 and 102 or permission of the instructor.

Course Type(s): WT

AN 274 Cr. 3.0

Anthropology of Sex and Gender
Anthropological perspectives on sexuality and gender; emergence of human sexuality and gender differentiation in the context of species evolution; cross-cultural survey of social and ideological aspects of sexuality and gender.

Prerequisite: Anthropology 103.

Course Type(s): none

AN 275 Cr. 3.0

Global Environmental Problems
Focus on the complex relationship between human beings and their environments in an effort to build an ecological perspective in a global framework. Discussion of basic issues of ecological science in terms of impact on both the Western and non-Western worlds. Also listed as Geography 275.

Course Type(s): CC, MEBP, SUS

AN 278 Cr. 3.0

Deviance, Custom, and Law
A comparative examination of individual departures from cultural norms; descriptive and conceptual aspects of deviance in light of evidence from diverse cultures around the world and from various subcultures of complex societies; causes, forms, and incidence of deviance; deviant individuals; personal and social responses to deviance; relativistic perspectives on problems of definition; evaluation of competing theories; relationship of informal norms and controls to the concept of law.

Prerequisite: Three credits in Anthropology, Sociology, or Psychology.

Course Type(s): none

AN 279 Cr. 3.0

Medical Anthropology
A cross-cultural examination of health and healing from the view of applied medical anthropology. Explores biological, socio-cultural, political, economic, and structural factors that affect health, illness, and disease both now and in the past. Cultural areas of study include: populations in the United States, Africa, Latin America, the Caribbean, and Southeast Asia.

Prerequisites: English 101 and 102 or permission of the instructor.

Course Type(s): none

AN 288 Cr. 3.0

Cooperative Education: Anthropology Concentration
Provides students with an opportunity to apply classroom theory in practice through actual work experience. Placements are selected to forward the student's career interest through experiential education. This course is repeatable for credit.

Prerequisites: Anthropology 103 and Junior or Senior standing.

Course Type(s): EX

AN 290 Cr. 3.0

Popular Culture and the Middle East
Examines recent events, traditional cultural practices, and the perceptions of the Middle East through the lens of popular media (film, graphic novels, journalism, etc.). Topics to be covered may include but are not limited to: religion, the Arab Spring (2011), the Iranian Revolution, the Arab-Israeli Conflict, women's rights/roles, Orientalism and racism, and common governing structures. Also listed as History 290.

Course Type(s): GU, HSNW

AN 296 Cr. 3.0

Cultures and Societies of Africa
Examines the history, cultures, and societies of Africa from the precolonial to the contemporary period. Discusses the cultural, political, and economic changes that have taken place in Africa as a result of Western influence. Also listed as History 296.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): CC, HSAF, HSNW, WT

AN 298 Cr. 1.0 - 3.0
*Special Topics in Anthropology (200 Level)*
An intensive study of a particular subject or problem in Anthropology to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

AN 299 Cr. 3.0
*Independent Study in Anthropology*
Guided readings on a topic not otherwise covered in the curriculum.
Prerequisites: Student must be an Anthropology major and have at least a 2.50 GPA. Prior permission of the directing professor and department required.
Course Type(s): none

AN 304 Cr. 3.0
*Monuments and Commemoration: Loss and Remembrance*
Examines the evolution of American attitudes towards commemoration and remembrance from the colonial period to the present. Focuses on the analysis of landscapes and artifacts, e.g. monuments, grave markers, cemeteries, and historic sites. Topics discussed include: the evolution of American burial grounds from colonial burial grounds to the rural cemeteries of the Victorians and modern memorial parks. Changing grave marker designs and iconography are examined. Distinct ethnic, regional, and national memorial practices are also studied. Public memorials in the form of statuary, commemorative institutions, and historic sites will also be discussed. There will be field trips to select sites. Also listed as History 304.
Course Type(s): HSUS

AN 306 Cr. 3.0
*Food and Culture*
Augments the anthropology program’s offerings in both archaeology and socio-cultural anthropology, and demonstrates the synergy of these approaches in the topical study of food. Through a combination of lecture, discussion, hands-on learning, and readings, students are introduced to the basic modes of human subsistence identified by the anthropological tradition. They also will explore the material and social challenges connected with these different subsistence strategies, and finish up by looking at current food-based problems facing the world today.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): GU, WT

AN 311 Cr. 3.0
*Anthropology Internship Seminar*
Application of theory learned in the classroom in practice through actual work experience. Includes both academic and experiential learning. Eight to twelve hours per week in a public history or field work setting. Open only to anthropology majors. Also listed as History 311.
Course Type(s): EX

AN 315 Cr. 3.0
*Field Research in Archaeology*
Archaeological field methods, analysis of data, and anthropological interpretation; students will do supervised work on local sites. May be repeated for a maximum of six credits. Also listed as History 315.
Prerequisite: Anthropology 103 or 107 or permission of the instructor.
Course Type(s): EX

AN 321 Cr. 4.0
*Qualitative Research Methods*
An interdisciplinary overview of qualitative research methods employed in the social sciences and education. Qualitative methods are offered as an alternative way of knowing about individuals and groups. Topics covered include: theory, fieldwork, interviewing, observational studies, time sampling, writing field notes, questionnaires (survey research), archival research, and conducting qualitative research in various settings. Emphasis also placed upon the factors that affect the fieldwork process (e.g., gender, emotions, etc.) Also listed as Psychology 321.
Prerequisite: Psychology 103.
Course Type(s): none

AN 335 Cr. 3.0
*A History of the Ancient Near East*
A survey of the history and culture of ancient Mesopotamia, Egypt and their Near Eastern neighbors from the rise of the first literate urban societies through the conquests of Alexander the Great and the Successors. The focus will be on an examination of the preserved material culture, including texts, art, and architecture as revealed through archaeology. Also listed as History 335.
Prerequisite: History 101.
Course Type(s): HSAS, HSNW, HSPRE
AN 338 Cr. 3.0  
Ancient Art and Ancient History: Greece, Egypt and the Near East  
Surveys the culture and history of pre-Classical Greece in the light of its Egyptian and western Asiatic neighbors from the rise of the first literate urban societies through the Persian invasions. It will examine in detail the nature and degree of the dependence of pre-Classical Greek art on the artistic vocabulary of its older eastern neighbors as evidenced by sculpture, architecture and the minor arts. Specific objects will be treated as historical documents by which to understand better these ancient societies and the hierarchy of ideas and beliefs that produced them. Also listed as History 338.  
Course Type(s): HSNW

AN 342 Cr. 3.0  
Children's Play and Culture  
An intensive examination of children's play. Theoretical and empirical contributions from psychology and anthropology as a developmental and cross-cultural foundation for the following topics: the historical development of the concept of childhood; theories of play; conceptions of play and work; the functions of play; play and child development; gender differences; cross-cultural forms of play; and children's peer cultures. Also listed as Psychology 342.  
Prerequisite: Psychology 203.  
Course Type(s): none

AN 342L Cr. 1.0  
Children's Play Laboratory  
Research strategies used in the study of children's play. Projects include: methods of interviewing and survey techniques, naturalistic observation, participant observation, and time sampling. Students also design and undertake their own research projects and prepare written and oral reports of their findings. Also listed as Psychology 342L.  
Prerequisites: Psychology 311, 320, and 321, passed with a grade of C or higher.  
Corequisite: Anthropology 342.  
Course Type(s): EX

AN 343 Cr. 3.0  
Anthropology and Children  
An overview of the anthropological study of children. Addresses anthropology's inquiry into children's behavior, activities, artifacts, and their relationships with adults both past and present. Topics covered include: archeology and children, childbirth, attachment, parenting, play, education, socialization, and child labor and welfare. Geographical areas include: the Middle East, Asia, and Central and South America. Europe and the United States are mentioned marginally.  
Prerequisite: Anthropology 103.  
Course Type(s): GU

AN 360 Cr. 3.0  
Brazil: History and Culture  
Exposes students to the cultural diversity and historical processes that have produced modern Brazil. Our approach focuses on the effects that large-scale, socioeconomic processes (e.g. colonization, mercantilism, slavery, nation-building, free trade) have had on lives of everyday people, past and present, paying special attention to issues of race, gender, and material inequality. We examine the livelihoods and belief-systems of Amazonian Indians, African slave communities, urban slum dwellers, subsistence cultivators, and Japanese immigrants, looking at their contributions to Brazil's history and studying the national culture that somehow make them all Brazilians. Also listed as History 360.  
Prerequisites: English 101 and 102 or permission of the instructor.  
Course Type(s): CC, CD, WT

AN 367 Cr. 3.0  
Civilizations of the Andes  
A survey of the anthropological history of the Andes from the beginning of civilization through the Inca Empire to contemporary Quechua and Aymara speakers: pre-Inca societies, social and political organization of peasant culture, and the role of rural migration in transforming contemporary Andean cities. Also listed as History 367.  
Prerequisites: Three credits in Anthropology or Sociology; and English 101 and 102 or permission of the instructor.  
Course Type(s): CC, GU, WT

AN 380 Cr. 3.0  
American Cultural Diversity  
Explores the historical, social, and cultural backgrounds of immigrant groups found within the United States. Through lectures, readings, case studies, and discussions incorporated with service learning as fieldwork, students will be introduced to the complexity and diversity of American society.  
Course Type(s): EX

AN 383 Cr. 3.0  
Old World Prehistory  
An intensive survey of the prehistoric cultures of Europe, Africa, and Asia, focusing on the period between the origins of modern humans to the rise of the first civilizations.
Particular attention is paid to the development of art, religious belief systems, agriculture, urbanism, metallurgy, and writing. Early civilizations in Egypt, sub-Saharan Africa, Mesopotamia, Western Europe, and China are examined.

**AN 388**  Cr. 3.0  
*Cooperative Education: Anthropology Concentration*

Provides students with an opportunity to apply classroom theory in practice through actual work experience. Placements are selected to forward the student's career interest through experiential education.

Prerequisites: Anthropology 103 and Junior or Senior standing.

Course Type(s): EX

**AN 389**  Cr. 3.0  
*Anthropological Field Study*

Supervised field experience in various branches of anthropology, e.g., archaeological excavation, museum work, ethnography, and primate behavior.

Prerequisite: Six credits in Anthropology and permission of the instructor.

Course Type(s): EX

**AN 398**  Cr. 1.0 - 3.0  
*Special Topics in Archaeology (300 Level)*

An intensive study of a particular subject or problem in anthropology to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.

Prerequisite: As announced in the course schedule.

Course Type(s): none

**AN 401**  Cr. 3.0  
*Anthropological Theory*

A survey of the major theories in anthropology from the nineteenth century to the present, focusing on contributions to our understanding of human society by some of the major figures of anthropology.

Prerequisite: Anthropology 103 or permission of the instructor.

Course Type(s): none

**AN 408**  Cr. 3.0  
*Cross-Cultural Psychology*

Exploration of psychological principles and theories; examination of their cross-cultural validity. Theoretical and empirical contributions from psychology and anthropology provide a foundation for topics covered that include: the history of cross-cultural psychology, methodology in cross-cultural psychology, gender differences, aggression, schooling, children's play, child development, and social distance. Also listed as Psychology 408.

Prerequisite: Psychology 203.

Course Type(s): none

**AN 425**  Cr. 3.0  
*Latin American Seminar*

An in-depth analysis of select groups in Native Latin America, through lectures, readings, case studies, film, and interactive panel discussions.

Prerequisites: Anthropology 103 or permission of the instructor and English 101 and 102 or permission of the instructor.

Course Type(s): WT

**AN 426**  Cr. 3.0  
*Research Seminar in Anthropology*

The development, research, and writing of a BA paper on any aspect of anthropology, with special emphasis on scrupulous documentation, use of appropriate sources, clear expository writing, and oral presentation of research results. The course will be taught as a mixture of seminar and one-on-one meetings with the instructor. (It will also include a meeting with a librarian or bibliographer from the Monmouth University Library.)

Prerequisites: Anthropology 497 and Senior standing.

Course Type(s): RD

**AN 488**  Cr. 3.0  
*Cooperative Education: Anthropology*

Provides students with an opportunity to apply classroom theory in practice through actual work experience. Placements are selected to forward the student's career interest through experiential education. Repeatable for credit.

Prerequisites: Anthropology 103 and Junior or Senior standing.

Course Type(s): EX

**AN 489**  Cr. 3.0  
*Anthropological Field Study*

Supervised field experience in various branches of anthropology, e.g., archaeological excavation, museum work, ethnography, and primate behavior. This course may be repeated once for credit.

Prerequisites: Six credits in Anthropology and permission of the instructor.

Course Type(s): EX
AN 498 Cr. 1.0 - 3.0
Special Topics in Anthropology (400 Level)
An intensive study of a particular subject or problem in anthropology to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

AN 499 Cr. 3.0
Independent Study in Anthropology
Guided readings on a topic not otherwise covered in the curriculum.
Prerequisites: Student must be an Anthropology major and have at least a 2.50 GPA. Prior permission of the directing professor and department required is required.
Course Type(s): none

ART AND DESIGN

AR 101 Cr. 3.0
Art Appreciation
A global survey of the cross-cultural evolution of art from the prehistoric period through the twentieth century. Emphasis will be placed on understanding the basic elements of art, the creative process, and the significance of art within the context of social, political, religious, and economic climate of its time.
Course Type(s): AT

AR 113 Cr. 3.0
Basic Design and Composition
Drawing and design disciplines pertaining to a solid and basic understanding of composition, figure-ground relationships and the organization of marks and shapes on flat surfaces. Some beginning aspects of color and an experience relating to relief forms.
Course Type(s): none

AR 114 Cr. 3.0
Basic Design and Color
A continuation of material covered in Basic Design and Composition (AR 113) with emphasis on the study of color and its relationship to various aspects of drawing and design. Color will be studied in two specific ways: the physicality of color and the illusionistic possibilities inherent in color. To put it simply, physicality pertains to color mixing or painting, and illusion relates to the interaction of color.
Prerequisites: Art 113 and 191.
Course Type(s): none

AR 116 Cr. 3.0
Three-Dimensional Design
Three-dimensional design as it relates to sculpture, from visual involvements and illusions on a flat surface to the physical reality of three-dimensional objects in space, including environmental possibilities. Studio hours to be arranged.
Prerequisites: Art 113 and 191.
Course Type(s): none

AR 117 Cr. 3.0
Computer Graphics
An introduction to basic graphic design and visual communication concepts. Builds on the skills learned in foundation courses in basic design and complements the introduction to the field in Graphic Design I, Art 269. Students will become proficient in design concepts and computer skills later used in the Graphic Design field, including page layout, illustration, photography, and web design. They will continue to develop creative problem-solving skills and the foundation theory of Graphic Design.
Prerequisite: Art 113.
Course Type(s): TL

AR 172 Cr. 3.0
Computer Graphics (Non-Art)
Designed for students with little or no experience in computer graphics. Combines basic visual problem solving with hands-on, computer-based digital training. Projects are designed with the non-art/design major in mind and would be appropriate for students majoring in journalism, communications, marketing and music industry.
Course Type(s): none

AR 177 Cr. 3.0
Web Studio
An introduction to the visual aesthetics and fundamental skills required to create web graphics, digital publication, and web layout design. Covers the use of current graphics software in addition to training in graphic production and composition needed for the Web.
Course Type(s): none

AR 181 Cr. 3.0
Light and Lens: An Introduction to Photography and Video
Light and lens are the fundamental elements of photographic and video media. This foundation level course introduces students to the formal characteristics of light and lenses by surveying a variety of image-making practices, from primitive photographic devices to digital photography and video. Through a combination of classroom
talks and hands-on projects, students will encounter principles of black-and-white and color photography as well as elementary video. Learning camera controls in this manner opens up a wide range of expressive possibilities.

Course Type(s): IM

AR 183 Cr. 3.0
Beginning Photo Practices
Technical proficiency in basic black and white photography, including exposure, developing, printing and presentation. Photography is presented as a tool to understand the world and as a means of expression and communication. Students will learn how to interpret and discuss the visual language of photography.

Course Type(s): none

AR 184 Cr. 3.0
Intermediate Black and White Photography
Focuses on advanced technical skills as a means of gaining greater personal and aesthetic understanding. Advanced 35mm camera and printing techniques, basic studio lighting, and exploring different photographic formats including medium, large, and toy cameras, as well as experimental techniques of image making and printing. Prerequisite: Art 183.

Course Type(s): none

AR 191 Cr. 3.0
Drawing I
Explore fundamentals of drawing in order to accurately describe nonfigurative volumetric objects. Students are expected to develop a solid understanding of basic drawing elements such as line, value, mass, and space and learn to comprehend the understanding of space, shape, proportion, form, volume, light, and rhythm. Drawing I is a basic hands-on course that introduces the student to various traditional drawing techniques and materials for expression. Working with a basic drawing medium we will explore fundamental rendering techniques. Six hours per week.

Course Type(s): none

AR 192 Cr. 3.0
Drawing II
A studio course that continues to develop the skills covered in Drawing I, Art 191. Students will be introduced to both traditional and nontraditional concepts and techniques of interpretive and subjective drawing and rendering. Drawing techniques and materials pertaining to the expression of both figurative and nonfigurative subject matter will be explored. The human figure will serve as the primary subject of study with an emphasis placed on the rendering skills. The complex nature of the figure provides students with problems that require serious attention to observational skills in order to correctly render the form. Drawing II utilizes the live, nude model. Six hours per week.

Prerequisite: Art 191.

Course Type(s): none

AR 198 Cr. 1.0 - 3.0
Special Topics in Art (100 Level)
An intensive study of a particular subject or problem in art to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.

Prerequisite: As announced in the course schedule.

Course Type(s): none

AR 217 Cr. 3.0
Sculpture I
Sculpture for beginners as well as intermediate students, including modeling from life, direct sculpture in plaster, clay modeling, and simple casting procedures. Six hours per week.

Prerequisites: Art 116, 191, and 192 for art majors.
Department chair approval is required for non-art majors.

Course Type(s): none

AR 218 Cr. 3.0
Sculpture II
A direct continuation of AR 217, Sculpture I, along with some assemblage, construction and alternate casting methods. Six hours per week.

Prerequisite: Art 217.

Course Type(s): none

AR 221 Cr. 3.0
Painting I
Techniques and craftsmanship to facilitate expression in acrylic or oil painting; still-life and landscape subjects. Art and Art Education students must have prerequisite. Six hours of studio work per week.

Prerequisites: Art 113, 114, 191, and 192 for art majors.
Department chair approval is required for non-art majors.

Course Type(s): none

AR 222 Cr. 3.0
Painting II
A continuation of Art 221, Painting I, with emphasis on the further development of painterly ideas and creative thinking. Art and Art Education majors must have prerequisites. Six hours of studio work per week.

Prerequisite: Art 221.

Course Type(s): none
AR 241 Cr. 3.0
History of Art I
The fundamental ideas underlying the significant periods and styles in painting, sculpture, and architecture. Three weekly lectures plus required museum visits. Semester I: ancient civilization through the Gothic period. Semester II: Renaissance to c. 1940.
Course Type(s): ARHIS

AR 242 Cr. 3.0
History of Art II
The fundamental ideas underlying the significant periods and styles in painting, sculpture, and architecture. Three weekly lectures plus required museum visits. Semester I: ancient civilization through the Gothic period. Semester II: Renaissance to c. 1940.
Prerequisite: Art 241.
Course Type(s): ARHIS

AR 243 Cr. 3.0
History of Graphic Design
A survey of the history of graphic design in the twentieth and twenty-first centuries. The course is an overview of design and instructs students in researching areas of interest to broaden their knowledge of contemporary issues in graphic design.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): ARHIS, TL, WT

AR 244 Cr. 3.0
History of Photography
A topically arranged survey of world photography, this course takes as its central concern the multiple purposes to which photography has been adapted since its discovery in the early nineteenth century. Although the relationship between photography and fine art is considered, the many non-art uses of the medium are also discussed in an attempt to better understand the cultural contexts in which photography has been employed.
Prerequisites: Art 241 and 242; and English 101 and 102 or permission of the instructor.
Course Type(s): ARHIS, CD, WT

AR 253 Cr. 3.0
Digital Photography
Students develop knowledge of image development, construction, retouching, and collage techniques using traditional film, digital images, and drawing as source material. Students will learn a variety of camera skills, including shooting in RAW format. A critical examination of intent is stressed along with output options and color management. Introduces programs such as Aperture and/or Lightroom to further expand digital workflow skills.
Prerequisites: Art 181 and 183.
Course Type(s): none

AR 265 Cr. 3.0
Hand Built Ceramics
An introduction to clay as a creative material for making both functional and sculptural 3-D forms using various hand-building techniques, including coils, slabs, carving, incising, and their combination. Basic glazing and firing methods will be covered. Slide presentations, group and individual critiques will be part of the curriculum.
Course Type(s): none

AR 266 Cr. 3.0
Wheel Thrown Ceramics
An introduction to the potter’s wheel as a tool for creating both functional and sculptural clay forms. In addition to throwing forms on the wheel, students will gain knowledge about glazing and firing techniques. Slide presentations, group, and individual critiques will be part of the curriculum.
Course Type(s): none

AR 269 Cr. 3.0
Graphic Design 1
An introduction to graphic design, including conceptual thinking, letterform design, layout, and design techniques. Students will also be introduced to design history and current issues regarding the profession. Department chair approval is required for non-art majors.
Prerequisite: Art 113 for Art majors only.
Corequisite: Art 114.
Course Type(s): none

AR 270 Cr. 3.0
Graphic Design 2
Introduces more advanced visual communications and typographic problem solving. Projects strategically test the students’ understanding of design theory and thinking. Individual projects mimic those in a professional design environment and are developed following the traditional creative process. Projects focus on three-dimensional principals as they relate to the area of packaging.
Prerequisites: Art 172 or 177, and 269.
Course Type(s): none
AR 273 Cr. 3.0
Digital Illustration
A continuation of Computer Graphics with primary emphasis on more advanced illustration software. Assignments build on previously learned software and concepts. Projects may include illustrative posters, booklets, and interiors.
Prerequisite: Art 172 or 177.
Course Type(s): none

AR 278 Cr. 3.0
Computer Graphics 2 for the Non-Art Major
A continuation of Art 177, Computer Graphics I for the Non-Art major, with primary emphasis on more advanced computer applications as they apply to graphic design and desktop publishing. Software will be used to learn more advanced concepts in visual communication and design.
Prerequisite: Art 177.
Course Type(s): none

AR 284 Cr. 3.0
Web Design Dynamic for Non-BFA Candidates
Integrating previously learned web design and development concepts. Allows students to focus on the web interactively and 2D animation using Adobe Flash and audio/video files on the internet. Besides Adobe Flash, a variety of software tools including Photoshop, Illustrator, and sound editing tools are used to develop design concepts, web graphics, animation, and interactive Websites/applications after a careful planning process. This course meets six hours per week. Not available to Fine Arts majors.
Prerequisite: Art 178.
Course Type(s): IM

AR 286 Cr. 3.0
Maya Animation for Non-BFA Candidates
Students will learn basic techniques of building three-dimensional, digital objects along with the basic theories and principles of animation using the software Maya. Skills needed to construct 3D objects in Maya will be introduced with hands-on experiences on the Macintosh platform. Meets six hours per week. Not available to Fine Arts majors.
Prerequisites: Art 178, Art 181 or Communication 145, and Art 284.
Course Type(s): IM

AR 287 Cr. 3.0
Typography
An introduction to the theory, function, history, and impact of typography in graphic design. This course is an analysis of the shape and form of letters. Investigation and comparison of existing typefaces, type specification and layout in relation to graphic design and the printed piece.
Prerequisites: Art 113, 114, 172 or 177, and 269.
Course Type(s): none

AR 288 Cr. 3.0
Cooperative Education: Art or Graphic Design
An on-site graphic design cooperative work placement. This course may be repeated for credit.
Prerequisite: Permission of the instructor.
Course Type(s): EX

AR 290 Cr. 3.0
Motion Graphics for Non-BFA Candidates
An introduction to the art of time-based, graphic storytelling for non-art/design majors. Emphasis will be placed on the creation of engaging digital environments through the thoughtful integration, manipulation, and orchestration of audio, video, still, and three-dimensional imagery. Meets six hours a week. Not available to Fine Arts majors.
Prerequisites: Art 178, Art 181 or Communication 145, and Art 284.
Course Type(s): IM

AR 291 Cr. 3.0
Drawing III
Seeing the figure, objects, and the environment; exploring all possible avenues of expression resulting from the experience of seeing; drawing experiences in various media. Six hours per week.
Prerequisites: Art 113, 114, 191, and 192.
Course Type(s): none

AR 292 Cr. 3.0
Drawing IV
A continuation of Art 291. Seeing the figure, objects, and the environment; exploring all possible avenues of expression resulting from the experience of seeing; drawing experiences in various media.
Prerequisite: Art 291.
Course Type(s): none

AR 298 Cr. 1.0 - 3.0
Special Topics in Art (200 Level)
An intensive study of a particular subject or problem in art to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none
Appendix A: Course Descriptions

**AR 313** Cr. 3.0

*Lighting Techniques*
A studio course that explores the photograph in contemporary art. Photography's integral tie to light serves as the backbone of this course as it investigates the alternative and contemporary spaces used by photographic artists. Digital and analog tools and skills blur as students are encouraged to experiment and challenge their ideas of what defines a photograph. Teaches studio lighting as it applies to fine art and commercial photography. Includes technical instruction in the lighting studio as well as on location with both portable lights and natural light. Defined by critiques and continues technical and conceptual advancement.

Prerequisites: Art 183, and Art 253 or 374.
Course Type(s): none

**AR 317** Cr. 3.0

*Sculpture III*
Volume, balance, movement, and structure in metals, stone, wood, found objects, cast stone, and wire. Students may work in the round, relief, or medallic direction. Six hours per week.

Prerequisites: Art 217 and 218.
Course Type(s): none

**AR 321** Cr. 3.0

*Painting III*
The development of the student as a painter, with emphasis on the philosophy of painting. Six hours of studio per week.

Prerequisites: Art 221 and 222.
Course Type(s): none

**AR 323** Cr. 3.0

*Sequence as Story*
By investigating documentary-style imaging and the classic picture essay, this course concentrates on using images in sequence. Students will explore how sequence-based images, by way of editing and text, create relationships between images and ultimately tell stories that the single image cannot. Students will work independently and in small groups to further explore notions of authorship and the role of documentary photography in a contemporary art context.

Prerequisites: Art 183, and Art 253 or 374.
Course Type(s): none

**AR 325** Cr. 1.0

*Writing Supplement for Art and Design*
The writing component for co-registered studio classes which integrates a fifteen-page research paper. Emphasis is placed on the quality of writing and research.

Prerequisites: English 101 and 102 or permission of the instructor.
Corequisite: A 200-, 300-, or 400-level studio course.
Course Type(s): WT

**AR 326** Cr. 1.0

*Writing Supplement for Art and Design*
The writing component for co-registered studio classes which integrates a fifteen-page research paper. Emphasis is placed on the quality of writing and research.

Prerequisites: English 101 and 102 or permission of the instructor.
Corequisite: A 200-, 300-, or 400-level studio course.
Course Type(s): WT

**AR 335** Cr. 3.0

*BFA Internship/ Seminar*
Internship experience with the development of occupational or professional competence in the career setting. Combines both internship work experience at an approved work location with a structured seminar class. The seminar component of this course will also guide students through the process of resume writing, interviewing techniques, and best business practice. On-site graphic design work internship (fifteen to twenty hours per week) plus one hour weekly seminar with faculty. This course may be repeated once for credit.

Prerequisites: Art 270 and 273.
Course Type(s): EX

**AR 337** Cr. 2.0

*Art/Design Internship Seminar*
Internship experience with the development of occupational or professional competence in the career setting. Combines both internship work experience at an approved work location with a structured seminar class. The seminar component of this course will also guide students through the process of resume writing, interviewing techniques, and best business practice. On-site graphic design work internship (10 to 15 hours per week) plus one hour weekly seminar with faculty. This course may be repeated once for credit.

Course Type(s): EX

**AR 343** Cr. 3.0

*Renaissance, Mannerist, and Baroque Art*
Painting, sculpture, and architecture in Europe from 1400-1800’s. Museum visits required.

Prerequisite: Art 242.
Course Type(s): ARHIS
AR 345 Cr. 3.0
*Early to Late Modern Art*
Trends and influences in art. Painting, sculpture, and architecture from 1912 to the present day. Museum visits required.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): ARHIS, WT

AR 348 Cr. 3.0
*Art of India*
The visual art of India: how to look at it and how it might be best understood. The larger cultural context in which this art was produced, drawing upon history, religion, mythology, and literature will be discussed. Essentially, per-modern Indian art is religious art. After studying the major monuments associated with Buddhism and Hindu art, the themes common to both traditions will be considered. The temple as an artistic expression and as a religious center will be explored. Because of the vastness of India art, this course will not include Mughal and later monuments.
Course Type(s): ARHIS, CC, GU

AR 349 Cr. 3.0
*Asian Art Survey*
Important Artistic Monuments from India, China and Japan. Since Buddhism is a connecting link for Asian cultures, emphasis is placed on Buddhist art.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): ARHIS, CC, GU, WT

AR 350 Cr. 3.0
*World Art Nineteenth-Twentieth Century*
A global investigation of the cross-cultural evolution of art in the nineteenth to mid-twentieth century. Non-Western art will be studied from the point of discovery through its influence on modern, Western, visual expression. Emphasis will be placed on the significance of the art work within the context of the social, political, religious, and economic climate of its time.
Course Type(s): ARHIS, AT

AR 351 Cr. 3.0
*Methods of Teaching Art I*
The history and philosophy of art education; the construction of art curricula and the exploration of teaching methods; media and tools appropriate for the educational level.
Methods I deals with the needs of the elementary school child. Open to Art majors only. Also listed as Education 351.
Prerequisites: Art 114, 116, and 192.
Course Type(s): none

AR 352 Cr. 3.0
*Methods of Teaching Art II*
The history and philosophy of art education; the construction of art curricula and the exploration of teaching methods; media and tools appropriate for the educational level. Methods II deals with the needs of the adolescent. Open to Art and Education majors only. Also listed as Education 352.
Prerequisite: Art 351 or Education 351.
Course Type(s): none

AR 353 Cr. 3.0
*Advanced Digital Photography*
A strong foundation in the technical and aesthetic aspects of color photography through projects utilizing digital RAW files and analog negatives with instruction in color printing and studio lighting as it pertains to the nuances of color. Discussions and critical writings focus on the history and theory of color photography. Combines analog and digital techniques and focuses on more advanced file managing and color control both on the monitor and in the print.
Prerequisites: Art 253 and 313.
Course Type(s): none

AR 360 Cr. 3.0
*Intermediate Ceramics*
As a continuation of introductory-level ceramics classes, personal experimentation and development of students’ personal expression is encouraged. Emphasis on individual instruction and discussions based on the students’ interests. Ceramics technology and history of ceramic art through individual research will be part of the curriculum.
Prerequisite: Art 265 or 266.
Course Type(s): none

AR 368 Cr. 3.0
*Women, Art and Society*
A historical and critical survey of women artists from the Renaissance to the present. Emphasis will be placed on the accomplishments of women artists of the twentieth century. The range of styles, subjects, and techniques with which women painters, sculptors, crafts persons, photographers, and designers expressed their creativity will be studied.
Prerequisite: Junior standing.
Course Type(s): ARHIS, GS
Advanced Typography

Revisits the history, anatomy, classification, construction and use of type discussed in Art 287, Typography, but with greater emphasis on theory. Advanced Typography will also consider the emotional, expressive, and connotative aspects of letterforms and their organization. Possible applications could include environmental signage, sculptural installations and/or film.

Prerequisite: Art 287.

Course Type(s): none

Graphic Design III

Marks the transition from graphic design fundamentals to more complex visual problem solving. Projects focus on corporate identity and branding, including client research, design briefs, creative exploration and implementation. Other projects include multi-page magazine and poster design. Professional preparation of work for commercial use is an integral part of this course.

Prerequisites: Art 269 and 270.

Course Type(s): none

Digital Imaging

Advanced concepts and creative techniques in digital imaging using Adobe Photoshop. Projects build on all previously learned software, specifically the Adobe Creative Suite. Assignments will include aspects of fine art and large format printing along with issues relating to the professional printing industry.

Prerequisite: Art 273.

Course Type(s): none

Illustration for Gaming

Introduction and application of illustration as a means toward effective visual communication in the gaming and animation industry. Emphasis on the development of the creative visual concept and its relationship to style, media, technique, and methods of reproduction. Introduction to a variety of traditional and non-traditional techniques.

Prerequisites: Art 114, 172, and 192.

Course Type(s): none

Print: Intaglio/Relief

Introduction to the printmaking techniques of relief printing; linocut, woodcut, and etching; hard and soft ground, and aquatint. Six hours per week. Department chair approval is required for non-art majors.

Prerequisites: Art 191 and 192.

Course Type(s): none

Print: Lithography and Silkscreening

Introduction to the printmaking techniques of aluminum plate lithography and Photo Silkscreen, with an emphasis on multiple color and combination Litho/Silkscreen hybrid prints. Six hours per week. Department Chair approval for non-art majors is required.

Prerequisites: Art 191 and 192.

Course Type(s): none

Web Design: Static

An introduction to web design and production. It covers an overview of the creation of Web sites and the use of Web graphics, animation, and multimedia through Web-based software programs. Fundamentals of graphic production, layout design principles, animation, navigation, and the engineering principles of multimedia are included.

Prerequisite: Art 253 or 374.

Course Type(s): none

Web Design Dynamic

An advanced class in web design and production. It extends the design principles of the previous web development class, Web Design: Static. Students will focus on interactive, dynamic web content using Macromedia FLASH and streaming audio/video files on the Internet.

Prerequisite: Art 383.

Course Type(s): none

Flash Animation

Integrating previously learned concepts such as basic computer graphics, drawing, typography, and 2D design, students will be able to develop the basic animation skills in Adobe Flash and produce digital graphics and character based animations. Students learn and experience the arts of storytelling, animation, cinematography, and sound editing while developing a critical eye towards the use of these concepts in current media venues. Beside Adobe Flash, a variety of software tools including Photoshop, Illustrator, and sound editing tools are used to develop concepts and visual effects after a careful planning and scripting process.

Prerequisite: Art 374.

Course Type(s): none
AR 386  Cr. 3.0  
*Principles of 3-D Animation*
Students will learn the basic theories and principles of 3D computer animation and advances techniques of object building using Maya. Students will gain experience with basic animating, texturing, rendering, and constructing complex 3D objects in Maya.
Prerequisite: Art 172 or 181.
Course Type(s): none

AR 387  Cr. 3.0  
*3-D Character Rigging and Animation*
Students will learn advanced techniques of 3D computer animation along with the theories and principles of motion using Autodesk Maya. Students will rig a character and manipulate hierarchical character animation, time curves and motion paths. Students will animate walks and runs with characters. Students will utilize Maya's cameras and lights while gaining further experience with texturing and rendering techniques. Comprehensive critiques will be conducted regularly to encourage good design for time-based animation.
Prerequisite: Art 386.
Course Type(s): none

AR 388  Cr. 1.0 - 3.0  
*Cooperative Education: Art or Graphic Design*
An on-site graphic design cooperative work placement. This course may be repeated once for credit.
Prerequisite: Art 335 or 337 and permission of the instructor.
Course Type(s): EX

AR 389  Cr. 1.0 - 3.0  
*Internship Art and Design*
An internship in either graphic design or fine arts at an off-campus work site. The placement must enhance students' working knowledge of their chosen field of study. Students are required to complete a minimum of ten hours per week for a total minimum of 150 hours.
Prerequisites: Junior standing and permission of the instructor.
Course Type(s): EX

AR 390  Cr. 3.0  
*Animation/ Motion Graphics 1*
An introduction to the art of time-based, graphic storytelling. Emphasis will be placed on the creation of engaging digital environments through the thoughtful integration, manipulation and orchestration of audio, video, still and three-dimensional imagery.
Prerequisite: Art 181 or 374.
Course Type(s): none

AR 391  Cr. 3.0  
*Animation/ Motion Graphics 2*
Explores the commercial and experiential nature of motion graphics. Projects for this advanced course expand upon established time-based narrative structures for film, video and television. Emphasis is placed on a keen awareness of syntactic elements that constitute the grammar of motion (scale, position, color, and tempo), which sheds light upon how audiences interpret moving images. Study and application of literary theory provides a substantive framework from which to create and critique projects. Concept development through research, writing, storyboarding and editing are absolutely essential.
Prerequisite: Art 390.
Course Type(s): none

AR 393  Cr. 3.0  
*3-D Animation Production*
Concepts, tools and techniques employed in animated storytelling. Students will pre-visualize their projects through storyboarding, planning, and assembling shots in sequence. Students will learn how to combine sound with advanced 3D computer animation. Audio/visual synchronization as well as character lip syncing with phonemes will be explored. Students will construct complex 3D animated stories in Maya and complete a fully animated piece.
Prerequisite: Art 387.
Course Type(s): none

AR 394  Cr. 3.0  
*3-D Environments and Effects*
Concepts, tools, and techniques for creating realistic natural environments and phenomena (such as moving clouds, fire, and flowing water). Students will sculpt complex polygonal geometry into various terrains including landscapes and foliage. Students will learn to create realistic backgrounds incorporating natural light. Creating realistic shadows will be explored as well. Students will learn how to use particle emitters in order to simulate phenomena such as flowing water, flames, and snow.
Prerequisite: Art 393.
Course Type(s): none

AR 398  Cr. 1.0 - 3.0  
*Special Topics in Art (300 Level)*
An intensive study of a particular subject or problem in art to be announced prior to registration. The course may be con-
ducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

AR 399 Cr. 1.0 - 3.0
Independent Study in Art
Guided research - a studio project or art history topic.
Weekly consultation. May be elected for a total of six credits.
Course Type(s): none

AR 401 Cr. 3.0
Senior Portfolio
A seminar class that chronologically analyzes and refines
graphic design and computer projects, which have been
done throughout the student’s coursework. Meetings with
instructor to discuss and critique reworked and new proj-
jects that have been specifically assigned.
Course Type(s): none

AR 402 Cr. 3.0
Photography Portfolio
Equal parts seminar and studio in its approach, this sen-
ior-level course incorporates discussions and readings
focused on contemporary photo-based artworks and the
theoretical and critical developments in recent photo-
graphic art practices. In addition, this course helps pre-
pare students to enter the professional art world and/or
graduate school. Students develop a cohesive portfolio of
photographic imagery and create a strategy for the pres-
entation of their work.
Prerequisite: Art 353.
Course Type(s): none

AR 403 Cr. 3.0
Advanced Digital Imaging
For student designers and fine artists with intermediate
computer skills who are interested in more advanced con-
ccepts and creative techniques in digital illustration, photog-
raphy, digital collage, printmaking and handmade tech-
niques, digital book publishing, and large format printing.
Programs to be explored are Adobe Photoshop and Painter.
Prerequisite: Art 253 or 374.
Course Type(s): none

AR 404 Cr. 3.0
Responsive Media
Students explore methods to create interactive media art
that involves response and participation as an essential
aspect to the work. The class combines hands-on training
in building software and physical interfaces that allow for
user interaction and readings from critical texts that
examine theoretical issues surrounding this practice. The
course readings will illuminate contemporary strategies
for engaging public participation, provide a historical con-
text, and introduce the student to important practitioners
in this field. Meets six hours a week. Also listed as
Communication 404.
Prerequisite: Communication 145 or Art 181.
Course Type(s): CORTP

AR 406 Cr. 3.0
Creative Book Arts
An introduction to bookbinding and papermaking.
Traditional western-style papermaking and several non-
adhesive binding structures will be covered. The student
will produce a final bound book of sequential images
(pages) in any media relevant to her/his discipline. The
print lab will be available but not required. Department
Chair permission for non-Art majors is required.
Prerequisite for Art majors: Art 381 or 382.
Course Type(s): none

AR 410 Cr. 1.0 - 3.0
Advanced Project I
Research, art making, and writing for Honors Project may
be conducted for photography, painting, sculpture, printmak-
ing, graphic design, Web design, or motion graphics and is
determined by a student's particular discipline and medium
of choice. The art to be made is informed by the student's
research and is articulated in full through a final eighteen-
twenty page research paper. The topic of research may
include but is not limited to identity, gender roles in culture,
A16 Monmouth University
feminism, religion, the occult, consumerism, politics, cultural
diversity, war, personal experience, Renaissance vs. con-
temporary art, Greek vs. contemporary sculpture, etc.
Alternatively, the student may also conduct a thorough
exploration of the characteristics of a particular medium. Art
and Design faculty must approve the topic. This is the first
part of a two-semester class.
Prerequisites: Junior status, permission of the department
chair, a GPA of 3.00, a major GPA of 3.50, and the stu-
dent must be an art or fine arts major.
Course Type(s): none

AR 411 Cr. 1.0 - 3.0
Advanced Project 2
Research, art making, and writing for Honors Project may
be conducted for photography, painting, sculpture, print-
making, graphic design, Web design or motion graphics
and is determined by a student’s particular discipline and
medium of choice. The art to be made is informed by the student's research and is articulated in full through a final eighteen-twenty page research paper. The topic of research may include but is not limited to identity, gender roles in culture, feminism, religion, the occult, consumerism, politics, cultural diversity, war, personal experience, Renaissance vs. contemporary art, Greek vs. contemporary sculpture, etc. Alternatively, the student may also conduct a thorough exploration of the characteristics of a particular medium. Art & Design faculty must approve the topic. This is the second part of a two-semester class. Prerequisites: Art 410, a GPA of 3.00, a major GPA of 3.50, Junior status, English 101 and 102 or permission of the instructor, and the student must be an Art or Fine Arts major and have permission of the department chair.

Course Type(s): WT

AR 414 Cr. 3.0
Group Project in 3-D Animation
Students will learn how to work on a production team for a 3D project. Students will work in a team environment to brainstorm, communicate effectively, develop project goals, and delegate responsibilities. Students will learn how to meet deadlines both individually and collectively. Student groups are expected to produce a 3D animated piece with an estimated three-minute duration.
Prerequisite: Art 394.
Course Type(s): none

AR 415 Cr. 3.0
Senior Animation Reel
Students will create a reel between two to three minutes in duration of their animation work from previous animation projects and new animation projects. Includes lecture, discussion, demonstration, critiques and individual meetings with students to support the development of students' work. Students will research self-promotional opportunities such as competitions and festivals. Students will revise their resume to respond to their career interests. Emphasis will be placed on the development of a personal point of view.
Prerequisite: Art 414.
Course Type(s): none

AR 460 Cr. 3.0
Advanced Ceramics
Focuses on advanced hand-building and/or wheel-throwing techniques in order to strengthen a student's personal expression and challenge development of his or her personal style. The course will have emphasis on individual instruction and discussions based on the student's interests. Individual research of innovative construction and firing methods, as well as ceramics technology and history of ceramic art will be part of the curriculum.
Prerequisite: Art 265.
Course Type(s): none

AR 488 Cr. 3.0
Cooperative Education: Art or Graphic Design
An on-site graphic design cooperative work placement. This course may be repeated for credit.
Prerequisite: Art 335 or 337 and permission of the instructor.
Course Type(s): EX

AR 489 Cr. 1.0 - 3.0
Internship Art and Design
An internship in either graphic design or fine arts at an off-campus work site. The placement must enhance a student's working knowledge of his or her chosen field of study. Students are required to complete a minimum of ten hours per week for a total minimum of 150 hours.
Prerequisites: Junior standing and permission of the department.
Course Type(s): EX

AR 498 Cr. 1.0 - 3.0
Special Topics in Art (400 Level)
An intensive study of a particular subject or problem in art to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

AR 499 Cr. 1.0 - 3.0
Independent Study in Art
Guided research - A studio project or art history topic. Weekly consultation. May be elected for a total of six credits.
Prerequisites: Senior standing and prior permission of the directing professor and department chair.
Course Type(s): none

AR REV Cr. 0.0
Art and Design Sophomore Year Review
Sophomore year review requirement.
Course Type(s): none

AR SHO Cr. 0.0
Senior Show
Course Type(s): none
BIOLOGY

BY 101 Cr. 3.0
*Issues and Methods of Biology*
Major concepts in biological science and their importance in current society. Methods and approaches to questions in biology. Cannot be used in satisfaction of a major requirement in the Biology program.
Prerequisite: Science 100.
Course Type(s): none

BY 102 Cr. 3.0
*Applications in Biotechnology*
Introduction for non-science majors. The focus is on basic principles of biotechnology along with an exploration of associated bioethical issues. The laboratory component serves to familiarize students with scientific practice.
Course Type(s): none

BY 103 Cr. 3.0
*Environmental Science*
Examines society's effects on the natural environment and current efforts to address environmental issues in a sustainable manner. Stresses the interdisciplinary nature of environmental issues, and that resolution of environmental problems sustainably involves the application of sound scientific information, but at the same time involves social, political, cultural, and economic values as well.
Course Type(s): none

BY 104 Cr. 3.0
*Human Biology*
Introductory course for non-science majors. Focus is on basic structure and function of human body systems and diseases of these systems. The laboratory component serves to familiarize students with scientific practice.
Course Type(s): none

BY 105 Cr. 3.0
*Introductory Biology and Human Development*
An introductory-level survey of biology with an emphasis on human biology that includes human development, aging, genetics and other topics selected to support the social work program. An introduction to neurobiology will be provided with applications in mental health. Not for credit toward a major in biology. For Social Work majors only.
Course Type(s): none

BY 106 Cr. 3.0
*The Brain - Highs and Lows*
An introductory neurobiology course designed for non-science majors. The focus is the study of the human brain from the highs of intelligence and creativity to the lows of depression. The brain will also be examined for its roles in drug use, from the highs of euphoria to the lows of dependence. Topics will include the interplay between genetic and environmental influences that shape the brain and its responses. Not for credit towards a major in Biology.
Course Type(s): none

BY 107 Cr. 4.0
*Microbiology in Health and Disease*
Microorganisms pathogenic for man; emphasizing etiology, modes of transmission and control. Laboratory includes proper collection of specimens, aseptic technique, cultivation, identification, and disposal of microbes. Three hours of class, two hours of laboratory per week.
Course Type(s): none

BY 108 Cr. 3.0
*Evolution and the History of Life on Earth*
Examines evolution both as a process and as a phenomenon. Students will examine how evolutionary processes occur in time, both very short and geological time scales, and how both are studied. Students will review the history of life on earth with emphasis on major lineages such as vertebrates, mollusks, insects and plants, as well as basic geological processes and continental drift during these time periods. Bacterial evolution will be examined in the context of the importance of understanding natural selection and evolution and their impacts on society and medicine. Emphasis will be placed on understanding evolution of groups and processes often cited in creationist arguments, to help students be prepared to enter civil discourse as informed citizens. Evidence of evolutionary change from the fossil record and DNA sequences of organisms will be compared and reviewed.
Course Type(s): none

BY 109 Cr. 4.0
*Introduction to Biodiversity and Evolution*
An introductory course for biology majors. Focus is on evolution, phylogeny, taxonomy, origin and diversity of life, physiology of plant and animal systems, and ecological principles. Three hours of lecture and two hours of laboratory per week. Limited to students who are majors in Biology, Chemistry, Mathematics, Computer Science and Software Engineering.
Course Type(s): none
BY 110 Cr. 4.0
Introduction to Cell and Molecular Biology
For biology majors and other students needing an introduction to the cellular and molecular levels of biology. Includes an introduction to cell structure and function, biochemistry and metabolism, bioenergetics, genetics and cell division, and molecular biology. Three hours of lecture and two hours of laboratory per week. Limited to majors in Biology, Chemistry, Clinical Science, Medical Technology, Mathematics, Computer Science, Software Engineering, and Criminal Justice.
Course Type(s): none

BY 111 Cr. 4.0
Anatomy and Physiology I
Study of human systems: structure, function and integration. Semester I: Chemical and cellular base, integumentary, skeletal, muscular, cardiovascular, and lymphatic systems. Semester II: Respiratory, nervous, endocrine, urinary, reproductive, and digestive systems. Laboratory covers gross mammalian anatomy, microscopy of tissues and organs, and physiological study of living organisms. Three hours of lecture, two hours of laboratory per week. Not open to Biology majors.
Course Type(s): none

BY 112 Cr. 4.0
Anatomy and Physiology II
Study of human systems: structure, function and integration. Semester I: Chemical and cellular base, integumentary, skeletal, muscular, cardiovascular, and lymphatic systems. Semester II: Respiratory, nervous, endocrine, urinary, reproductive, and digestive systems. Laboratory covers gross mammalian anatomy, microscopy of tissues and organs, and physiological study of living organisms. Three hours of lecture, two hours of laboratory per week. Not open to Biology majors.
Prerequisite: Biology 111.
Course Type(s): none

BY 116 Cr. 3.0
The Biology of Nutrition, Aging, and Anti-Aging Nutrition
Discussions of the theories of aging and the role of nutrition in delaying aging and preventing degenerative disease. Analysis of the scientifically sound, medically reliable evaluation of widely promoted nutritional supplements, including the anti-aging nutrients: vitamins, minerals, amino acids, nucleic acid derivatives, lipids and derivatives, pharmaceuticals and chemicals (BHA, BHT, DMSO, etc.) and other supplements (L-Carnitine, ginseng, etc.)
Course Type(s): none

BY 198 Cr. 1.0 - 3.0
Special Topics in Biology (100 Level)
An intensive study of a particular subject or problem in biology to be announced prior to registration. May be conducted in a lecture, seminar, or laboratory format.
Prerequisite: As announced in the course schedule.
Course Type(s): MC, ME

BY 201 Cr. 3.0
Introduction to Biotechnology
Introduction to recent advances in biotechnology: the use of living organisms to create products, applications or processes that improve the quality of life for humans and other species. Presents historical and modern applications of biotechnology that impact our everyday lives. An overview of current developments and applications of microbial, agricultural, animal, marine and forensic biotechnology, bioremediation, and medical biotechnology will be presented. Regulatory agencies and policies that govern the biotechnology industry will be discussed, and students will also learn to formulate opinions about ethical, legal and social issues associated with biotechnology.
Prerequisite: Biology 110 passed with a minimum grade of C- or higher.
Course Type(s): MC, ME

BY 205 Cr. 3.0
Zoology
Provides an introductory survey of vertebrate and invertebrate zoology. Topics covered include taxonomy and classification, anatomy and physiology, behavior and ecology, and evolutionary relationships of the major phyla of the animal kingdom.
Prerequisite: Biology 109.
Course Type(s): none

BY 210 Cr. 3.0
Forensic Genetics and DNA Analysis
Focus on fundamental principles of DNA and genetic analysis and their applications in forensics. Designed for criminal justice majors who have had an introduction to Mendelian and molecular genetics and to DNA structure, but who need more background in the underlying biology of forensic DNA analysis and interpretation. Sources of DNA will be presented along with methods for DNA extraction, amplification of DNA by polymerase chain reaction, analysis of restriction fragment length polymorphisms and short tandem repeats. Open only to Criminal Justice majors.
Prerequisites: Biology 110 and Criminal Justice 211.
Course Type(s): none
BY 211  Cr. 4.0
Physiology With Anatomy I
Lecture and laboratory course Study of Human Systems: Their structure, function and integration. Laboratory covers gross human anatomy and physiology. Three hours of lecture and two hours of laboratory per week. Open only to Biology majors.
Prerequisites: Biology 110 and Chemistry 111 and 112.
Course Type(s): MC

BY 212  Cr. 4.0
Physiology with Anatomy II
Lecture and laboratory course Study of Human Systems: Their structure, function and integration. Laboratory covers gross human anatomy and physiology. Three hours of lecture and two hours of laboratory per week. Open only to Biology majors.
Prerequisites: Biology 110 and 211 and Chemistry 111 and 112.
Course Type(s): MC

BY 214  Cr. 3.0
Botany
Characteristics of the major plant groups, principles of plant taxonomy, considerations of evolutionary and ecological relationships. Two hours of class, two hours of laboratory per week.
Prerequisite: Biology 109 passed with a grade of C- or higher.
Course Type(s): none

BY 220  Cr. 3.0
Environmental Biology
Focuses on human use of natural resources and the problems and impacts that result from those uses. Students will gain an understanding of the scientific, political, and socioeconomic factors that underlie resolution of these problems. Fulfills a major requirement in the Marine & Environmental Biology concentration.
Prerequisite: Biology 109 passed with a grade of C- or higher.
Course Type(s): ME, MEBP, SUS

BY 221  Cr. 3.0
Introduction to Global Sustainability
Introduces students to the global, environmental, economic and social foundations of sustainability and the policy and scientific challenges involved with accommodating population growth, development, and resources used while assuring that future generations will have the natural and economic resources to support an enhanced quality of life. An emphasis will be placed on understanding of sustainability principles from multiple perspectives and cross-disciplinary application of sustainable practices.
Course Type(s): MEBP, SUS

BY 223  Cr. 4.0
General Microbiology
Morphology, taxonomy, physiology, genetics, and control of micro-organisms; history of microbiology. Three hours of class, three hours of laboratory per week.
Prerequisite: Biology 110 passed with a grade of C- or higher.
Course Type(s): MEBP

BY 250  Cr. 3.0
Research in Molecular Cell Physiology
Faculty-student collaborative research lab course designed to introduce students to the research process. Students will work in small groups under faculty supervision to conduct research on a project in molecular cell physiology determined by the directing faculty member. Students will be involved in the research process by developing hypotheses, planning and carrying out experiments using modern lab techniques, analyzing data, and evaluating resource information. Research may be extended in detail in Biology 450. Limited to sophomore Biology majors.
Prerequisite: Biology 110 passed with a minimum grade of C- or higher.
Course Type(s): EX, MC

BY 250A  Cr. 3.0
Research in Molecular Cell Physiology
Faculty-student collaborative research lab course designed to introduce students to the research process. Students will work in small groups under faculty supervision to conduct research on a project in molecular cell physiology determined by the directing faculty member. Students will be involved in the research process by developing hypotheses, planning and carrying out experiments using modern lab techniques, analyzing data, and evaluating resource information. Research may be extended in detail in Biology 450. Limited to sophomore Biology majors. (Biology 250A is for students who do not need experiential education credit. Students who need experiential education credit should register for Biology 250.)
Prerequisite: Biology 110.
Course Type(s): EX, MC

BY 298  Cr. 1.0 - 3.0
Special Topics in Biology (200 Level)
An intensive study of a particular subject or problem in
biology to be announced prior to registration. May be conducted in a lecture, seminar, or laboratory format. Prerequisite: As announced in the course schedule. Course Type(s): MC, ME

**BY 301**
Vertebrate Histology
Microscopic structure of vertebrate cells, tissues, and organs, emphasizing microscopic anatomy of the human body. Laboratory identification of vertebrate tissues. Two hours of class, three hours of laboratory per week. Prerequisite: Biology 205 passed with a minimum grade of C- or higher. Course Type(s): MC

**BY 303**
Biological Oceanography
Biological Oceanography provides an introduction to the biology of life in the sea. Biological Oceanography emphasizes the fundamental oceanographic processes that control the distribution and abundance of living organisms in the sea. Two hours of lecture and two hours of lab per week. Prerequisites: Biology 109, 110, 205, and 214; all passed with a grade of C- or higher. Course Type(s): none

**BY 305**
Ichthyology
A survey of all extant group of fishes, including sections on evolution, taxonomy, form and function, biogeography, behavior, and ecology. Laboratory component will include required dissections. Some field trips may be scheduled outside of class time. Two hours of lecture and two hours of laboratory per week. Prerequisites: Biology 109, 110, and 205, all passed with a grade of C- or higher, and Mathematics 151. Course Type(s): MEBP

**BY 310**
Biochemistry and Lab
A survey of the major principles of biochemistry with attention to the structures and functions of proteins, carbohydrates and fats; the major pathways for metabolism of proteins, carbohydrates and fats; and the biochemical basis of DNA replication and gene expression. Laboratory provides hands-on experience in selected biochemical techniques with an emphasis on protein characterization. Designed to provide practice and critique in effective writing and appropriate writing style and format. Also listed as Chemistry 310. Prerequisite: Chemistry 242 passed with a grade of C- or higher; and English 101 and 102 or permission of the instructor. Course Type(s): MEBP, WT

**BY 312**
Physical Biochemistry
Foundations of thermodynamics, spectroscopy, and computational chemistry in the exploration of biochemical problems. Characterization and exploration of biochemical reactions and biomacromolecules. Also listed as Chemistry 312. Prerequisites: Physics 105, 105L, 106 and 106L, or Physics 211, 211L, 212 and 212L, Mathematics 116 or 126, and Biology or Chemistry 310. Corequisite: Chemistry 371L. Course Type(s): none

**BY 314**
Topics in Horticulture
Principles and practices of plant culture; practical experience through greenhouse projects; the horticulture industry and career possibilities; field trips to places of horticultural interest. Two hours of class, three hours of laboratory per week. Field trips arranged. Prerequisite: Biology 213 passed with a grade of C- or higher. Course Type(s): MC, ME

**BY 317**
Tropical Island Ecology
A field course focusing on investigations of plants, animals, and natural ecosystems of the Bahamas with emphasis on marine ecosystems, island ecology, resource management, and sustainable development. Not open to students who have taken Biology 117. Prerequisite: Biology 109 passed with a grade of C- or higher or permission of the instructor. Course Type(s): EX, ME, MEBP

**BY 324**
Applied Microbiology
Microorganisms of food, water, soil, dairy products, industrial processes, disease, and genetic engineering. Three hours of class, three hours of laboratory per week. Prerequisite: Biology 223 passed with a grade of C- or higher. Course Type(s): MC, ME, MEBP
Appendix A: Course Descriptions

BY 340  Cr. 4.0
Ecology
Examines the basic concepts of ecology and evolutionary biology, the interaction of organisms and their environment, population ecology, community ecology, and ecosystem dynamics. Three hours of lecture and three hours of lab/field work per week.
Prerequisites: Biology 109, 110, 205, and 214, Mathematics 151 and either Mathematics 115 or 116, all passed with a grade of C- or higher.
Course Type(s): none

BY 342  Cr. 3.0
Coastal Zone Management
Focus on the impact of increased demand on the coastal environment based on the theme that management of an environment for multiple purposes requires an understanding of the effects of use and exploitation throughout that environmental system and how decisions can be made in an effective, equitable manner.
Prerequisites: Biology 220, and Policy Studies or Political Science 105, all passed with a grade of C- or higher, or permission of the instructor; and English 101 and 102 or permission of the instructor.
Course Type(s): ME, WT

BY 350  Cr. 3.0
Field Research Methods in Marine Science
Provides students with hands on experience in marine and coastal research by working on-board small research vessels under real field conditions. Students become familiar with the use and application of standard marine science instruments and sampling devices, as well as data handling, management and analysis techniques. Priority will be given to MEBP majors.
Prerequisites: Biology 303, Chemistry 111, 111L, 112, and 112L, or permission of the instructor.
Course Type(s): MEBP

BY 370  Cr. 3.0
Cell Biology
In-depth study of biology at the cellular and subcellular levels. Integrates principles of biochemistry into an understanding of cell structure and physiology.
Prerequisite: Biology 310 passed with a grade of C- or higher.
Course Type(s): none

BY 375L  Cr. 3.0
Laboratory in Molecular and Cellular Biology
Designed to introduce biology majors to basic laboratory techniques used in molecular and cellular biology. Students will develop proficiency in modern techniques in molecular and cellular biology including micropipetting, bacterial culturing and sterile technique, solution preparation, DNA extraction, restriction digestion of DNA, DNA subcloning, gel electrophoresis of nucleic acids and proteins, nucleic acid blotting and analysis with molecular probes, DNA sequencing, polymerase chain reaction (PCR), immunological techniques for analysis of proteins, mammalian cell culture and transfection, and DNA sequence analysis on the Internet. The use of traditional and Internet information resources for molecular and cellular biology will also be emphasized. The presentation of data in both oral and written form will be emphasized. Partially fulfills the reasoned oral discourse requirement for biology and biology/molecular cell physiology.
Prerequisites: Biology 310 passed with a grade of C- or higher; and English 101 and 102 or permission of the instructor.
Course Type(s): RD, WT

BY 388  Cr. 1.0 - 4.0
Cooperative Education: Biological Sciences
Provides an opportunity for students to fulfill the Experiential Education requirement by pursuing a short-term cooperative work experience in biology or for students who are currently employed in a biological or medical field, to integrate the work with a related academic component. May be repeated for credit.
Prerequisites: Overall GPA of 2.00; Junior standing with at least six credits in biology courses.
Course Type(s): EX

BY 389  Cr. 1.0 - 3.0
Internship in Biological Science
Complements the practical experience gained by students at internship sites, such as hospitals, clinics, private practices, research laboratories, environmental agencies, museums, botanical gardens, and zoos with a significant set of academic goals. May be repeated once for credit.
Prerequisites: Overall GPA of 2.00; Junior standing with at least six credits in biology courses.
Course Type(s): EX, MEBP

BY 398  Cr. 1.0 - 3.0
Special Topics in Biology (300 Level)
An intensive study of a particular subject or problem in biology to be announced prior to registration. May be con-
ducted in a lecture, seminar, or laboratory format.
Prerequisite: As announced in course schedule.
Course Type(s): MC, ME

BY 404 Cr. 3.0
Animal Behavior
Describes history and procedures in the study of animal behavior; animal behavior in the context of evolution and ecology; learning and instinct, developmental processes, sociobiology and behavioral ecology; human ethnology. Also listed as Psychology 404.
Prerequisite: Biology 110 passed with a minimum grade of C- or higher.
Course Type(s): none

BY 404L Cr. 1.0
Animal Behavior Laboratory
Methods in the study of animal behavior. Projects on instinctive behavior, early experience, learning, dominance relationships, territoriality, behavioral ecology, and sociobiology. One all-day field trip and an independent project will be required.
Prerequisites: Psychology 311 and 320, both passed with a grade of C or higher.
Corequisite: Biology 404 or Psychology 404.
Course Type(s): none

BY 406 Cr. 3.0
Introduction to Neurosciences
The organization of the nervous system in terms of its anatomy, physiology, neurochemical correlates, and evolution; behavioral processes such as attention, sleep, motivation, instinct, learning, and languages.
Prerequisites: Six credits of biology or chemistry courses.
Course Type(s): MC, ME

BY 406L Cr. 1.0
Neurosciences Laboratory
Human and animal neuroanatomy; surgical techniques, including lesion, stimulation, and perfusion; histology; drug and hormone administration; physiological recording techniques. Three hours per week.
Corequisite: Biology 406.
Course Type(s): Biology 406.

BY 410 Cr. 3.0
Molecular Biology
Provides a detailed examination of the central dogma of molecular biology - DNA replication, transcription, reverse transcription, and translation - in viruses, prokaryotes, and eukaryotes. Standard techniques of biotechnology used to study molecular biology will be emphasized. Additional topics, including eukaryotic chromosome structure and regulation of gene expression, will also be discussed.
Prerequisite: Biology 310 or 423, passed with a grade of C- or higher.
Course Type(s): ME

BY 412 Cr. 3.0
Vertebrate Physiology and Laboratory
Comparative vertebrate physiology, with emphasis on osmotic regulation, nutrition, circulation, respiration, and muscle physiology. One hour of class, four hours of laboratory per week.
Course Type(s): MC

BY 420 Cr. 3.0
Ecosystems Analysis
Applied ecology course combining lectures, hands-on field and laboratory activities, and focused data collection and analysis to allow students to understand techniques used by scientists and managers in order to provide information necessary to perform key functions associated with ecosystem management.
Prerequisites: Biology 205, 214, and 340, all passed with a grade of C- or higher, and Senior standing in the MEBP major.
Course Type(s): EX, MEBP

BY 423 Cr. 4.0
Genetics
Lecture of classical and molecular genetics; applications in human heredity; structure and function of genetic material and gene regulation, laboratory exercises using Drosophila, bacteria, and bacterial viruses as experimental material. Three hours of lecture, three hours of laboratory per week.
Prerequisites: Biology 110 passed with a minimum grade of C- or higher and at least Junior status.
Course Type(s): none

BY 424 Cr. 3.0
Evolution
Synthetic theory of evolution, including sources of genetic variability, Hardy-Weinberg, natural selection, genetic drift, balanced polymorphism, molecular evolution, speciation and the origin of life. Three hours of class per week.
Prerequisite: Biology 423 passed with a grade of C- or higher.
Course Type(s): ME
Appendix A: Course Descriptions

BY 425  Cr. 4.0
Principles of Developmental Biology
The study of major morphological changes during development and the analysis of causative factors. Model organisms used in the study of development include: sea urchin, nematode worm, Drosophila, frog, and mouse. Topics include: fertilization, growth, differentiation, morphogenesis, regeneration, and tissue interactions. The genetic control of development will be emphasized.
Prerequisites: Biology 110 and 423.
Course Type(s): none

BY 431  Cr. 3.0
Immunology
Components of the immune system; biological individuality and the recognition of foreignness; structure of antibodies; cellular immunity and graft rejection; blood group antigens; the immune system and cancer development; immunogenetics; clinical and experimental applications.
Two hours of class, two hours of laboratory per week.
Prerequisite: Biology 110 passed with a minimum grade of C- or higher.
Course Type(s): none

BY 441  Cr. 4.0
Marine Biology
Biota of the oceans and inshore waters with emphasis on taxonomy, ecology, and distribution. Basic oceanography included. A field course supported by lecture and laboratory. Field trips outside of assigned class time may be required.
Prerequisites: Biology 205 and 214, both passed with a grade of C- or higher.
Course Type(s): RD

BY 442  Cr. 3.0
Natural Resource Conservation and Management
The principles of ecology and resource management are used to analyze contemporary environmental problems and highlight legislative, technological, and methodological solutions to environmental problems that move us toward a sustainable society.
Prerequisites: Biology 220 and Political Science or Policy Studies 105, all passed with a grade of C- or higher, or permission of the instructor; and English 101 and 102 or permission of the instructor.
Course Type(s): ME, SUS, WT

BY 450  Cr. 3.0
Research in Molecular Cell Physiology
A faculty-student collaborative research lab course.

Students will work in small groups under faculty supervision to conduct comprehensive research on a project in molecular cell physiology determined by the directing faculty member. Students will experience all aspects of the research process, from developing hypotheses, planning and carrying out experiments using modern lab techniques, and analyzing data, to preparing research results for publication. May be taken to extend research initiated in Biology 250. May be repeated for a maximum of six credits. Limited to Junior or Senior biology majors.
Prerequisite: Biology 310 passed with a minimum grade of C- or higher.
Course Type(s): EX, MC

BY 450A  Cr. 3.0
Research in Molecular Cell Physiology
A faculty-student collaborative research lab course.

Students will work in small groups under faculty supervision to conduct comprehensive research on a project in molecular cell physiology determined by the directing faculty member. Students will experience all aspects of the research process, from developing hypotheses, planning and carrying out experiments using modern lab techniques, and analyzing data, to preparing research results for publication. May be taken to extend research initiated by Biology 250A. (Students who do not need experiential education credit should register for Biology 450A. Students who need experiential education credit should register for Biology 450.) Limited to Junior or Senior biology majors.
Prerequisite: Biology 310 or Chemistry 310.
Course Type(s): MC

BY 475  Cr. 3.0
Endocrinology
Introduction to biochemical, molecular, and physiological aspects of the vertebrate endocrine system and mechanisms by which hormones maintain homeostasis in animals, including humans. Topics to be studied include: molecular structures: biochemical properties and interactions of different categories of hormones and their receptors; major endocrine systems that regulate reproduction, growth, development, and metabolism; neuroendocrinology; and pathophysiology of the endocrine system.
Hormones and organs that influence processes such as calcium homeostasis, digestion, salt balance, carbohydrate metabolism, and sex differentiation and development will be examined. Endocrine regulation of male and female reproductive organs and reproduction will also be discussed, including the hormonal control of fertilization, implantation, placental function, pregnancy, parturition, lactation, and contraception.
Prerequisite: Biology 310 or Chemistry 310 or twelve credits in Biology.
Course Type(s): MC, ME

BY 488 Cr. 1.0 - 3.0
Cooperative Education: Biological Sciences
Provides an opportunity for students to fulfill the experiential education requirement by pursuing a short-term cooperative work experience in biology or who are currently employed in a biological or medical field to integrate the work with a related academic component. May be repeated for credit.
Prerequisites: Overall GPA of 2.00; Junior standing with at least six credits in biology courses.
Course Type(s): EX

BY 495 Cr. 1.0
Senior Seminar
A seminar course with presentations by guest scientists as well as students. Gauges students’ abilities to draw upon a broad background of coursework and experience to organize, present, discuss, and evaluate topics of current interest in biology.
Prerequisite: Senior standing; open only to Biology majors.
Course Type(s): RD

BY 498 Cr. 1.0 - 3.0
Special Topics in Biology (400 Level)
An intensive study of a particular subject or problem in biology to be announced prior to registration. May be conducted in a lecture, seminar, or laboratory format.
Prerequisite: As announced in the course schedule.
Course Type(s): MC, ME

BY 499 Cr. 1.0 - 4.0
Independent Study in Biology
Principles of independent study and research; periodical presentation of findings in discussion groups; preparation of a research paper in publishable format. Laboratory arranged.
Prerequisites: Prior permission of the directing professor and department chair; Senior standing in Biology. May be repeated for a total of eight credits.
Course Type(s): none

BUSINESS - ACCOUNTING

BA 200 Cr. 3.0
Survey of Accounting
An introductory class in accounting designed for non-business students, which focuses on accounting as a tool for communicating financial information about business organizations to people outside the business and to internal users to help them plan, control, or make decisions about operations. Not open to Business majors and only can be used toward the Business minors.
Prerequisite: Management 200. Effective Fall 2013.
Course Type(s): none

BA 251 Cr. 3.0
Principles of Financial Accounting
Introduction to the theory and practice of accounting, including the balance sheet, income statement, cash flows, and related decision making.
Course Type(s): none

BA 252 Cr. 3.0
Principles of Managerial Accounting
Use of accounting concepts, analyses, and financial data to aid in the evaluation of the business enterprise and management in its planning, organizing, and controlling functions.
Prerequisite: Accounting 251.
Course Type(s): none

BA 311 Cr. 3.0
Intermediate Accounting I
Financial accounting measurement, including asset valuation and determination of periodic income.
Prerequisites: Accounting 251 and 252, both passed with a grade of C or higher.
Course Type(s): none

BA 312 Cr. 3.0
Intermediate Accounting II
Liability recognition and corporation equity measurement.
Prerequisite: Accounting 311 passed with a grade of C or higher.
Course Type(s): none

BA 316 Cr. 3.0
Individual Income Tax
This is the first of two semesters of a study of Federal Income Taxation. It covers taxation of individuals and small businesses. Emphasis will be on tax research and planning for individuals. The purpose is to introduce undergraduate accounting students to a broad range on income tax topics. Because of the complexity and breath of coverage, many topics will not be covered in great depth.
Prerequisite: Accounting 251 passed with a grade of C or higher.
Course Type(s): none
Appendix A: Course Descriptions

BA 320 Cr. 3.0
Managerial Cost Analysis
Offers the student a fairly detailed knowledge of cost accounting principles and practices. A working knowledge of cost accounting is an essential element of the accounting student's education due to the importance of cost accounting in every organizational setting. Also, the information presented in the course is essential for successful completion of professional examinations such as the CPA and the CMA.
Prerequisite: Accounting 252 passed with a grade of C or higher.
Course Type(s): none

BA 345 Cr. 3.0
Forensic and Investigative Accounting
Identifying, recording, settling, extracting, sorting, reporting and verifying past financial data or other accounting activities for settling current or prospective legal disputes or using such past financial data for projecting future financial data to settle legal disputes.
Prerequisite: Accounting 251 and 252, both passed with a grade of C or higher.
Course Type(s): none

BA 388 Cr. 3.0
Cooperative Education: Accounting Concentration
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential education. Experiential education involves 15 to 20 hours of work per week for three credit hours. Academic aspects include reading assignments and a term paper.
Prerequisites: Accounting 252; Management 250; minimum GPA of 2.00; sixty or more earned credits; eighteen or more credits in Business Administration courses; twelve or more credits in accounting courses taken at Monmouth University. This course may be repeated for credit.
Course Type(s): EX

BA 401 Cr. 3.0
Advanced Accounting
Advanced issues in financial accounting, including business combinations, consolidated financial reports, governmental and not-for-profit accounting, and other relevant areas.
Prerequisite: Accounting 312 passed with a grade of C or higher.
Course Type(s): none

BA 413 Cr. 3.0
Auditing Theory
Auditing standards and procedures associated with the examination of financial statements; the role and methods of the independent auditor; legal and ethical responsibilities.
Prerequisites: Accounting 312 passed with a grade of C or higher; and English 101 and 102 or permission of the instructor.
Course Type(s): WT

BA 417 Cr. 3.0
Business Income Taxation
The second of two income tax courses, which covers the taxation of corporations, partnerships, estates and trusts. Tax and estate planning are emphasized with the study of various techniques, case studies and research projects. Retirement plans and international taxes are also included.
Prerequisite: Accounting 316 passed with a grade of C or higher.
Course Type(s): none

BA 425 Cr. 3.0
International Accounting
Basic concepts of accounting principles, auditing environments, managerial objectives, and financial reporting requirements, applicable to multi-national corporations. Emphasis on corporations with headquarters domiciled in the United States, with limited attention to specialized offshore locations.
Prerequisite: Accounting 312.
Course Type(s): none

BA 430 Cr. 3.0
Accounting Information Systems
Accounting systems analysis and design. Emphasis on database information structures, integrating accounting, and controls.
Prerequisite: Accounting 311 passed with a grade of C or higher.
Course Type(s): none

BA 480 Cr. 3.0
Business Research: Accounting
Active participation in a research project chosen by and currently being pursued by the faculty sponsor. Student activities may include but are not limited to: literature search, data collection, data analysis, preparation of a manuscript, and delivery of a manuscript.
Prerequisites: Junior standing; approval of the instructor, department chair, and the Associate Dean or the Dean.
Course Type(s): none
BA 488 Cr. 3.0
Cooperative Education: Accounting Concentration
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential education. Experiential education involves fifteen-twenty hours of work per week for three credit hours. Academic aspects include reading assignments and a term paper.
Prerequisites: Accounting 252; Management 250; minimum GPA of 2.00; sixty or more earned credits; eighteen or more credits in Business Administration courses; twelve or more credits in Accounting courses taken at Monmouth University. This course may be repeated for credit.
Course Type(s): EX

BA 489 Cr. 3.0
Internship in Accounting
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential learning. Experiential part involves fifteen-twenty hours of work experience per week for three credit hours; academic aspect includes reading assignments and a term paper. Students are limited to nine credits of internship electives. This course is repeatable twice for credit.
Prerequisites: Junior standing and a minimum GPA of 2.00.
Course Type(s): EX

BA 498 Cr. 1.0 - 3.0
Special Topics in Accounting
An intensive study of a particular subject or problem in accounting to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

BA 499 Cr. 3.0
Independent Study in Accounting
Independent study on a Business Administration topic not substantially treated in a regular course; work will include scheduled conferences with sponsoring professor and written reports.
Prerequisite: Prior permission of the directing professor and department chair.
Course Type(s): none

BUSINESS - ECONOMICS

BE 200 Cr. 3.0
Economics for Social Science
Students are introduced to core economic concepts in four areas: (i) Introductory concepts include: decision-making under scarcity, the operation of markets and the price mechanism, and government’s role in the economy. (ii) Microeconomics covers the economic analysis of consumption, production in the context of competitive and monopolistic markets, operation of labor markets, and poverty and income distribution. (iii) Macroeconomics introduces students to national product and income accounts; business cycles, inflation and unemployment; and monetary and fiscal policies. (iv) Global topics include: comparative advantage, trade and finance. Real-world applications are emphasized in all areas. For Non-Business majors.
Prerequisite: Any Math course with a level higher than 100.
Course Type(s): none

BE 201 Cr. 3.0
Microeconomics
Introduction to the operation of the price mechanism; examination of the individual economic units, laws of supply and demand, market structure, and cost analysis; contemporary problems examined.
Prerequisite: Mathematics 100 or higher-level mathematics course.
Course Type(s): SS.SV

BE 202 Cr. 3.0
Macroeconomics
Determination of the components and level of national income; applications to the problems of inflation, unemployment, and economic stabilization; financial institutions in relation to their role in public policies.
Prerequisite: Mathematics 100 or higher-level mathematics course.
Course Type(s): SS.SV

BE 251 Cr. 3.0
Business Statistics
Descriptive statistics, tables and charts, probability distributions, confidence intervals and hypothesis tests, linear and multiple regression, and analysis of variance.
Prerequisite: Information Technology 150.
Course Type(s): none

BE 301 Cr. 3.0
Labor Economics
Economic and social effects of the modern industrial structure: labor groups, attitudes, problems, tactics, labor legislation, the development of industrial society of American Unionism, and the labor movement throughout Monmouth University A27
the world.
Prerequisites: Economics 201 and 202.
Course Type(s): GS

BE 304 Cr. 3.0
Money, Credit, and Financial Institutions
Monetary economics and its institutions; the nature and function of money; commercial and central banking; the money markets; financial intermediaries; and international monetary institutions. Also listed as Finance 304.
Prerequisite: Economics 202.
Course Type(s): none

BE 305 Cr. 3.0
Intermediate Macroeconomics
A study of the measurement of aggregate output and the determination of the level of aggregate income; price level movements and factors underlying rates of economic growth; influence of applicable public policies.
Prerequisite: Economics 202.
Course Type(s): none

BE 307 Cr. 3.0
Managerial Economics
Application of contemporary economic theory to managerial decisions and to public policy affecting such decisions.
Prerequisites: Mathematics 118 or 125, and Economics 201.
Course Type(s): none

BE 388 Cr. 3.0
Cooperative Education: Economics Concentration
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential education. Experiential education involves fifteen to twenty hours of work per week for three credit hours. Academic aspects include reading assignments and a term paper. This course may be repeated for credit.
Prerequisites: Junior standing or BF 301; minimum G.P.A. of 2.00, and completion of thirty credits, fifteen of which are from Monmouth University.
Course Type(s): EX

BE 401 Cr. 3.0
Development of Economic Thought
Economic ideas from the beginning of Western civilization to the present, including mercantilist writers Adam Smith, Malthus, Ricardo, Marx, and Keynes.
Prerequisites: Economics 201 and 202.
Course Type(s): none

BE 403 Cr. 3.0
Economic Growth and Development
The principal theories, factors, and problems of economic development. Empirical case studies emphasize the growth patterns in several countries, the impediments to economic growth in the underdeveloped countries, and the need to sustain growth rates in highly developed countries.
Prerequisites: Economics 201 and 202; and English 101 and 102 or permission of the instructor.
Course Type(s): WT

BE 440 Cr. 3.0
Bond Markets
A comprehensive review and analysis of the U.S. Bond Markets with emphasis on traditional fixed income securities and their derivative products and applications. The course will explore these studies from both a theoretical as well as practical perspective. Also listed as Finance 440.
Prerequisites: Economics 251 and Finance 301.
Course Type(s): none

BE 451 Cr. 3.0
Public Finance
An analysis of the revenue, expenditure, and debt activities of government and their effects on resource allocation, income distribution, price stabilization, and economic growth. Also listed as Finance 451.
Prerequisites: Economics 202 and Accounting 252.
Course Type(s): none

BE 455 Cr. 3.0
Business Forecasting
Use of statistical models to study historical data and discover their underlying tendencies and patterns. Extrapolation of the current estimates from the first step into the future. Attention given to the traditional exponential smoothing and Box-Jenkins forecasting techniques, as well as the more recent techniques of ARCH-GARCH, which deal with heteroskedastic variance over time. Substantial use of statistics and computer applications. Also listed as Finance 455.
Prerequisites: Economics 201, 202, 251 and Mathematics 118 or 125.
Course Type(s): none

BE 480 Cr. 3.0
Business Research: Economics
Active participation in a research project chosen by and currently being pursued by the faculty sponsor. Student
activities may include but are not limited to: literature search, data collection, data analysis, preparation of a manuscript, and delivery of a manuscript.

Prerequisites: Junior standing; approval of the instructor, department chair, and the Associate Dean or the Dean.

Course Type(s): none

BE 488 Cr. 3.0
Cooperative Education: Economics Concentration
An opportunity to apply classroom theory in practice through actual experience; includes both academic and experiential education. Experiential education involves fifteen to twenty hours of work per week for three credit hours. Academic aspects include reading assignments and a term paper. This course may be repeated for credit.

Prerequisites: Junior standing or BF 301; minimum G.P.A. of 2.00, and completion of thirty credits, fifteen of which are from Monmouth University.

Course Type(s): EX

BE 489 Cr. 3.0
Internship in Economics
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential learning. Experiential part involves fifteen to twenty hours of work experience per week for three credit hours; academic aspect includes reading assignments and a term paper. Students are limited to nine credits of internship electives. This course is repeatable twice for credit.

Prerequisites: Junior standing and a minimum GPA of 2.00.

Course Type(s): EX

BE 498 Cr. 1.0 - 3.0
Special Topics in Economics (400 Level)
An intensive study of a particular subject or problem in economics to be announced prior to registration, conducted on either a lecture-discussion or a seminar basis.

Prerequisite: As announced in the course schedule.

Course Type(s): SUS

BE 499 Cr. 3.0
Independent Study in Economics
Independent study on a Business Administration topic not substantially treated in a regular course; work will include scheduled conferences with sponsoring professor and written reports.

Prerequisite: Prior permission of the directing professor and department chair.

Course Type(s): none

BUSINESS - FINANCE

BF 200 Cr. 3.0
Survey of Finance
Introduction to business and personal finance, including forms of businesses, financial statements and cash flows, time value of money, elements of risk and return and valuation of stocks and bonds. This course is for non-business majors.

Prerequisite: Any math course with a level higher than 100.

Course Type(s): none

BF 301 Cr. 3.0
Principles of Finance
Introduction to financial management and operations of business corporations, including: concepts of time-value of money, valuation and rate of return, risk management, financial statement analysis, asset valuation models, capital budgeting, and international financial management.

Prerequisites: Accounting 251, Economics 201, and Mathematics 117 or 126.

Course Type(s): none

BF 303 Cr. 3.0
Real Estate Investment and Taxation
Designed to introduce students to the world of real estate finance, including debt and equity issues, securitization and taxation. Also listed as Real Estate 303.

Prerequisite: Real Estate 302 or Finance 310.

Course Type(s): none

BF 304 Cr. 3.0
Money, Credit, and Financial Institutions
Monetary economics and its institutions; the nature of and function of money; commercial and central banking; the money markets; financial intermediaries; and international monetary institutions. Also listed as Economics 304.

Prerequisite: Economics 202.

Course Type(s): none

BF 310 Cr. 3.0
Real Estate Appraisal
Real estate valuation and the appraisal process; applications of the income approach to valuation problems of multiple family, commercial, and industrial properties. Also listed as Real Estate 302.

Prerequisite: Finance 301 passed with a grade of C or higher.

Course Type(s): none
BF 322  
*Investments*
Basic investment principles: investment objectives, determinants of value of investment media, range of investments available, relative values of securities, and personal investment administration.  
Prerequisite: Finance 301 passed with a grade of C or higher.  
Course Type(s): none

BF 323  
*Analysis of Financial Statements*
Reading, analysis, and interpretation of financial statements of industrial and commercial business enterprises and of utilities and transportation.  
Prerequisite: Finance 301 passed with a grade of C or higher.  
Course Type(s): none

BF 324  
*Principles of Working Capital Management*
Exposure to major corporate decisions in restructuring and managing working capital and assessing the risks and returns of corporate decisions.  
Prerequisite: Finance 301 passed with a grade of C or higher.  
Course Type(s): none

BF 341  
*Insurance and Risk Management*
Principles and practices of insurance; the basic legal obligations and rights of the insurer and the insured in various types of contracts; types of carriers; internal and field organizations; government regulations and related subjects.  
Prerequisite: Finance 301 passed with a grade of C or higher.  
Course Type(s): none

BF 388  
*Cooperative Education: Finance Concentration*
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential education. Experiential education involves fifteen to twenty hours of work per week for three credit hours. Academic aspects include reading assignments and a term paper. This course may be repeated for credit.  
Course Type(s): EX

BF 421  
*International Finance*
A study of the organization and operations of international monetary relations. Analyzes the alternative methods of short and long-run payment adjustments; foreign exchange markets and international flow of funds; and theories of international liquidity.  
Prerequisites: Economics 202 and Finance 301, both passed with a grade of C or higher; and English 101 and 102 or permission of the instructor.  
Course Type(s): WT

BF 431  
*Managerial Finance*
Financial analysis, techniques, and principles as applied to short- and long-range planning and control; capital budgeting for long-term projects; valuation; determination of the firm’s cost of capital; and the trade-off between risk and profitability.  
Prerequisites: Accounting 252 and Finance 301, both passed with a grade of C or higher.  
Course Type(s): none

BF 435  
*Derivatives*
Introduction to the complex subject of financial derivatives. Emphasis on the Black-Scholes and the Binomial Option pricing models, option strategies, and the use of options and futures to hedge risk.  
Prerequisites: Mathematics 118 or 125 and Finance 301, each passed with a grade of C or higher.  
Course Type(s): none

BF 440  
*Bond Markets*
A comprehensive review and analysis of the U.S. Bond Markets with emphasis on traditional fixed income securities and their derivative products and applications. The course explores these studies from both a theoretical as well as practical perspective. Also listed as Economics 440.  
Course Type(s): none

BF 451  
*Public Finance*
An analysis of the revenue, expenditure, and debt activities of government and their effects on resource allocation, income distribution, price stabilization, and economic growth. Also listed as Economics 451.  
Prerequisites: Economics 202 and Accounting 252.  
Course Type(s): none
BF 455 Cr. 3.0

Business Forecasting
Use of statistical models to study historical data and discover their underlying tendencies and patterns. Extrapolation of the current estimates from the first step into the future. Attention given to the traditional, exponential Smoothing and Box-Jenkins forecasting techniques, as well as the more recent techniques of ARCH-GARCH, which deal with heteroskedastic variance over time. Substantial use of statistics and computer applications. Also listed as Economics 455.
Prerequisites: Economics 201, 202, 251 and Mathematics 118 or 125.
Course Type(s): none

BF 480 Cr. 3.0

Business Research: Finance
Active participation in a research project chosen by and currently being pursued by the faculty sponsor. Student activities may include but are not limited to: literature search, data collection, data analysis, preparation of a manuscript, and delivery of a manuscript.
Prerequisites: Junior standing; approval of the instructor, department chair, and the Associate Dean or the Dean.
Course Type(s): none

BF 488 Cr. 3.0

Cooperative Education: Finance Concentration
Opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential education. Experiential education involves fifteen to twenty hours of work per week for three credit hours. Academic aspects include reading assignments and a term paper. This course may be repeated for credit. Course Type(s): EX

BF 489 Cr. 3.0

Internship in Finance
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential learning. Experiential part involves fifteen to twenty hours of work experience per week for three credit hours; academic aspect includes reading assignments and a term paper. Students are limited to nine credits of internship electives. This course is repeatable twice for credit.
Prerequisites: Junior standing and a minimum GPA of 2.00
Course Type(s): EX

BF 498 Cr. 1.0 - 3.0

Special Topics in Finance (400 Level)
An intensive study of a particular subject or problem in finance to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

BF 499 Cr. 3.0

Independent Study in Finance
Independent study on a Business Administration topic not substantially treated in a regular course; work will include scheduled conferences with sponsoring professor and written reports.
Prerequisite: Prior permission of the directing professor and department chair.
Course Type(s): none

BUSINESS - HEALTH

BH 480 Cr. 3.0

Business Research: Business Health
Active participation in a research project chosen by and currently being pursued by the faculty sponsor. Student activities may include but are not limited to: literature search, data collection, data analysis, preparation of a manuscript, and delivery of a manuscript. This course may be used as an elective course in the Management and Marketing concentration.
Prerequisites: Junior standing, approval of the instructor, department chair, and the Associate Dean or the Dean.
Course Type(s): none

BUSINESS - LAW

BL 200 Cr. 3.0

The Law and Your Life
Introduces students to the fundamental laws relating to the expected major events in their personal lives from graduation until death including constitutional rights, contracts, crimes, torts, buying a home, marital rights and obligations, borrowing and investing, taxes, employment, insurance, consumer rights and estate administration.
Course Type(s): none
BL 201 Cr. 3.0
Legal Environment of Business I
Fundamentals of contracts, constitutional, criminal, torts, business organization, agency, employment, anti-trust, property, and international law.
Course Type(s): none

BL 202 Cr. 3.0
Legal Environment of Business II
Sales contracts, advanced topics in business organizations, bankruptcy, commercial paper, leases, estates and trusts, and miscellaneous.
Prerequisite: Business Law 201.
Course Type(s): none

BL 480 Cr. 3.0
Business Research: Business Law
Active participation in a research project chosen by and currently being pursued by the faculty sponsor. Student activities may include but are not limited to: literature search, data collection, data analysis, preparation of a manuscript, and delivery of a manuscript. May be used as an elective course in the Accounting concentration.
Prerequisites: Junior standing, approval of the instructor, department chair, and the Associate Dean or the Dean.
Course Type(s): none

BL 488 Cr. 3.0
Cooperative Education: Business Law Concentration
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential education. Experiential education involves fifteen to twenty hours of work per week for three credit hours.
Course Type(s): EX

BL 498 Cr. 1.0 - 3.0
Special Topics in Business Law (400 Level)
An intensive study of a particular subject or problem in business law to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

BM 200 Cr. 3.0
Introduction to Business
An interdisciplinary view of the theory and practices of the components in business functions as they are contingent for the owner’s success to seek out opportunities and avoid pitfalls. For Non-Business majors only.
Course Type(s): none

BM 201 Cr. 3.0
Survey of Management and Marketing
An overview of the theories and practices of Management and Marketing and how they relate to businesses, the business environment, customers, employees, the global village, and compliance with rules, regulations and the law. For non-Business majors only.
Prerequisite: Management 200.
Course Type(s): none

BM 210 Cr. 3.0
A Survey of Entrepreneurship
An overview of the theories and practices that focus on the tasks and activities of the small business owner, from the concept to the reality of researching venture feasibility, financing the business, launching the business, and managing growth. For Non-Business majors only.
Prerequisites: Accounting 200, Economics 200, Finance 200, Business Law 200, and Management 200.
Course Type(s): none

BM 250 Cr. 3.0
Principles of Management and Organizational Behavior
Management functions, including planning, organizing, staffing, directing, and controlling; the theory and practice as they are contingent on the behavior of people in organizations and on the organizational environment.
Prerequisite: Sophomore standing.
Course Type(s): none

BM 311 Cr. 3.0
Management Information Systems
Computer-based information systems for management; retrieval and processing of information for operational planning and control; organizational subsystems.
Prerequisites: Information Technology 100 or equivalent or Information Technology 150 or Computer Science 102.
Course Type(s): none
BM 327 Cr. 3.0
Ethics, Diversity, and Social Responsibility
Explores and applies alternative ethical and justice viewpoints to economic, political, and social problems inherent in contemporary business practice. Presents a focus on management with an increasingly diverse workforce and increasingly complex criteria for measuring organizational performance.
Prerequisites: Management 250, Marketing 250, Business Law 201, Junior standing; and English 101 and 102 or permission of the instructor.
Corequisite: Finance 301.
Course Type(s): WT

BM 350 Cr. 3.0
Operations Management
Production functions with emphasis on the systems model to include product mix decision analysis, inventory control, materials requirements planning, forecasting, break even models, transportation analysis, linear programming, economics order quantity decisions, and other current production maintenance techniques; focus on improved productivity.
Prerequisites: Management 250 and Economics 251.
Course Type(s): none

BM 388 Cr. 3.0
Cooperative Education: Management Concentration
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential education. Experiential education involves fifteen to twenty hours of work per week for three credit hours. Academic aspects include reading assignments and a term paper. May be repeated for credit.
Course Type(s): EX

BM 402 Cr. 3.0
Business Modeling and Analysis
Decision-making within a business/management science framework; modeling of business systems/problems and the application of quantitative, statistical, and computer analyses.
Prerequisites: Management 250 and 350.
Course Type(s): none

BM 403 Cr. 3.0
Management of Technology
The application of management to technology, response to technological organizational structure, and management’s role to assess innovations and conflicts of change that affect society and business. Analysis of technical systems and understanding uses of technology.
Prerequisite: Management 250.
Course Type(s): none

BM 404 Cr. 3.0
Human Resources Management
Employment planning; job analyses, job descriptions, employee evaluations, and legal compliance; staffing and selection process; performance ratings; training and development; compensation and benefits; equal rights; and labor relations and topics relative to the management of human resources.
Prerequisite: Management 250.
Course Type(s): none

BM 405 Cr. 3.0
Coaching and Team Development
Develop student understanding of the basics of team and group process, when to use group and individual decision making, and how to increase employee motivation through coaching. There are two audiences: leaders and managers. For the leader, the course directs itself toward how teams can be designed to function optimally. For the manager, the course focuses on the coaching skills necessary to manage a diverse, decentralized, global, and boundary-less organization.
Prerequisite: Management 250.
Course Type(s): none

BM 408 Cr. 3.0
Logistics and Supply Management
Logistics is an integrative activity uniting suppliers, providers of goods and services, and customers. It is also a global activity where the suppliers, providers, and customers may be located all over the world. In order to emphasize the global aspects of logistics and the impact of geopolitics on logistical systems, the course will focus on the logistics of energy transportation: primarily oil plus liquefied petroleum gases. This course will cover the differing perspectives of users (oil companies) and providers (tanker owning companies) and financial institutions that support providers. International efforts to deal with oil pollution and other forms of pollution from ships will be investigated. The role of trucks, railroad, airlines, and pipelines in domestic logistics will be described along with the role of containerization and intermodalism in global logistics. Supply chain management as practiced by a number of different companies will be covered via lecture and student presentations.
Prerequisites: Marketing 250 and Management 350.
Corequisite: Management 402.
Course Type(s): none
BM 423 Cr. 3.0
*Human Relations in Management*
Study of human relations in organizations with particular emphasis on leadership, changing work values, cross-cultural relations, legal compliance for conflict resolution, labor legislation.
Prerequisite: Management 250.
Course Type(s): none

BM 429 Cr. 3.0
*Project Management*
Project management is introduced from an applied managerial perspective with an emphasis on the behaviors, tools, and topics that managers will encounter throughout the life cycle of a project. The overall project phases of initiating, planning and design, executing, monitoring and controlling, and closing projects will be covered.
Prerequisite: Management 350.
Course Type(s): none

BM 432 Cr. 3.0
*Hospitality Management and Marketing*
The goal of this course is to provide the student with an introduction into the Hospitality Industry and the basics of its many components. We will examine industry trends, the corporate profiles of industry leaders, examine the various and diverse schools of thought that exist in the strategic management of hospitality, and, finally, to detail all the opportunities that the Hospitality Industry affords graduates of secondary institutions. Also listed as Marketing 432.
Prerequisite: Management 250 and Marketing 250.
Course Type(s): none

BM 434 Cr. 3.0
*Small Business Management/Marketing*
Examines the various approaches to running a business that has either been started previously by the Entrepreneurship class or been submitted to us for development and council.
Prerequisites: Management 250 and Marketing 250. Also listed as Marketing 434.
Course Type(s): none

BM 451 Cr. 3.0
*Entrepreneurship*
Focuses on the actual tasks and activities of the entrepreneur, from the excitement of the original concept, the reality of researching venture feasibility, financing the venture, launching the venture, to managing growth.

Prerequisites: Management 250 and Marketing 250.
Course Type(s): EX

BM 471 Cr. 3.0
*Global Management*
Management activities, processes, and procedures in directing an enterprise on a global basis, including the interplay of diverse, cultural environments.
Prerequisite: Management 250, Marketing 250, English 101 and 102; or permission of the instructor.
Course Type(s): WT

BM 480 Cr. 3.0
*Business Research: Management*
Active participation in a research project chosen by and currently being pursued by the faculty sponsor. Student activities may include but are not limited to: literature search, data collection, data analysis, preparation of a manuscript, and delivery of a manuscript.
Prerequisites: Junior status; approval of the instructor, department chair, and the Associate Dean or the Dean.
Course Type(s): none

BM 488 Cr. 3.0
*Cooperative Education: Management Concentration*
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential education. Experiential education involves fifteen to twenty hours of work per week for three credit hours. Academic aspects include reading assignments and a term paper. This course may be repeated for credit.
Course Type(s): EX

BM 489 Cr. 3.0
*Internship in Management*
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential learning. Experiential part involves fifteen to twenty hours of work experience per week for three credit hours; academic aspect includes reading assignments and a term paper. Students are limited to nine credits of internship electives. Repeatable twice for credit.
Prerequisites: Junior standing, Management 250, Marketing 250, and a minimum GPA of 2.00.
Course Type(s): EX

BM 490 Cr. 3.0
*Strategic Management*
Integrates all disciplines of undergraduate study in business administration; emphasizes analysis of real-world
organizational problems and opportunities in the total enterprise; capstone approach to executive development. Prerequisites: Accounting 252, Economics 202, Finance 301, and Management 311 or Accounting 430, and Management 350. Corequisite: Management 327. Course Type(s): EX

**BM 498**  
Special Topics in Management (400 Level)  
An intensive study of a particular subject or problem in management to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis. Prerequisite: As announced in the course schedule. Course Type(s): none

**BM 499**  
Independent Study in Management  
Independent study on a Business Administration topic not substantially treated in a regular course; work will include scheduled conferences with sponsoring professor and written reports. Prerequisite: Prior permission of the directing professor and department chair. Course Type(s): none

**BUSINESS - MARKETING**

**BK 250**  
Principles of Marketing  
Fundamental concepts involved in satisfying consumer objectives through goods and services; consumer characteristics; marketing system environments; middlemen; analysis of consumer and industrial goods; and physical distribution. Prerequisite: Sophomore status. Course Type(s): none

**BK 388**  
Cooperative Education: Marketing Concentration  
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential education. Experiential education involves fifteen to twenty hours of work per week for three credit hours. Academic aspects include reading assignments and a term paper. This course may be repeated for credit. Course Type(s): EX

**BK 399**  
Independent Study in Marketing  
Independent study on a Business Administration topic not substantially treated in a regular course; work will include scheduled conferences with sponsoring professor and written reports. Course Type(s): none

**BK 401**  
Marketing Research  
Methods, tools, and reasons for marketing research in support of distribution planning and policy formulation by top management; basic planning, questionnaire design, preliminary testing, field interviewing, sampling, data processing and analysis. Prerequisites: Marketing 250, Management 250, and Computer Science 102 or Information Technology 100 or Information Technology 102. Prerequisite or Corequisite: Economics 251. Course Type(s): none

**BK 404**  
Consumer Behavior  
A marketing strategy approach evaluating consumer attitudes and buying patterns; motivational and cognitive aspects of buying behavior; target market identification; and social class relationships. Prerequisite: Marketing 250. Course Type(s): none

**BK 411**  
Principles of Advertising  
Current practices in advertising, including its purpose and place, preparation and appeal, techniques, layout, and copywriting through visualized layouts and current media. Prerequisite: Marketing 250. Course Type(s): none

**BK 420**  
Health Care Management and Marketing  
An introductory overview of the U.S. healthcare system and its overall management and marketing issues, including coverage of its past and present political, organizational, socioeconomic, behavioral, human resource, educational, and utilization dimensions. Also listed as Management 420. Prerequisites: Management 250 and Marketing 250. Course Type(s): none

**BK 421**  
Marketing of Services  
Examines the applications of the conceptual framework of marketing within the service business context. Focuses
on the characteristics of the service environment, as well as important considerations in the services marketing-mix strategies.
Prerequisite: Marketing 250.
Course Type(s): none

**BK 422**  
**Principles of Personal Selling**
Theory and practice of personal selling; qualifications and preparation of the salesperson, the psychology of selling, and the various steps that enter into the sale itself.
Prerequisite: Marketing 250.
Course Type(s): none

**BK 431**  
**Sports Marketing**
Classroom lectures and readings will illuminate the theoretical underpinnings and practical applications of marketing strategies to the collegiate and professional sport, special events, international sport, broadcasting, facility management, and sporting goods industries.
Prerequisite: Marketing 250.
Course Type(s): none

**BK 433**  
**Franchising**
Examines both the business and legal aspects of franchising and other forms of product and services distribution. It will explore the history of franchising; its current position in the economy; and what can be expected in the future. Comparisons will be made to other forms of product or service distribution businesses. Also listed as Management 433.
Prerequisites: Management 250 and Marketing 250.
Course Type(s): none

**BK 452**  
**Business Marketing**
Aspects of marketing raw and semi-manufactured materials; industrial equipment of all kinds and other production goods; focus on product, market, and channel analyses.
Prerequisite: Marketing 250.
Course Type(s): none

**BK 453**  
**International Marketing**
Analysis of the policy, managerial, and implementation considerations involved in seeking multinational business opportunities with emphasis on the role of environmental and cultural differences in developing strategies for foreign market penetration.
Prerequisites: Management 250, Marketing 250, English 101 and 102 or permission of the instructor.
Course Type(s): WT

**BK 459**  
**Managerial Marketing**
Application of management principles to the integrated marketing function, both internally within the various units of the marketing division and externally in coordination with the other major divisions of the company.
Prerequisites: Marketing 401 and nine credits of Marketing courses.
Course Type(s): none

**BK 480**  
**Business Research: Marketing**
Active participation in a research project chosen by and currently being pursued by the faculty sponsor. Student activities may include but are not limited to: literature search, data collection, data analysis, preparation of a manuscript, and delivery of a manuscript.
Prerequisites: Junior standing; approval of the instructor, department chair, and the Associate Dean or the Dean.
Course Type(s): none

**BK 488**  
**Cooperative Education: Marketing Concentration**
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential education. Experiential education involves fifteen to twenty hours of work per week for three credit hours. Academic aspects include reading assignments and a term paper. This course may be repeated for credit.
Course Type(s): EX

**BK 489**  
**Internship in Marketing**
An opportunity to apply classroom theory in practice through actual work experience; includes both academic and experiential learning. Experiential part involves fifteen to twenty hours of work experience per week for three credit hours; academic aspect includes reading assignments and a term paper. Students are limited to nine credits of intern credit-free electives.
Prerequisites: Junior standing; Management 250, Marketing 250, and a minimum GPA of 2.00.
Course Type(s): EX
bk 498  cr. 1.0 - 3.0
special topics in marketing (400 level)
an intensive study of a particular subject or problem in marketing to be announced prior to registration. may be conducted on either a lecture-discussion or a seminar basis. prerequisite: as announced in the course schedule.
course type(s): none

bk 499  cr. 3.0
independent study in marketing
independent study on a business administration topic not substantially treated in a regular course; work will include scheduled conferences with sponsoring professor and written reports. prerequisite: prior permission of the directing professor and department chair.
course type(s): none

business – real estate

br 301  cr. 3.0
real estate law
legal issues as they apply to the acquisition, financing, and sale of real estate. prerequisite: business law 201.
course type(s): none

br 303  cr. 3.0
real estate finance investment and taxation
designed to introduce students to the world of real estate finance, including debt and equity issues, securitization and taxation. prerequisite: real estate 202 or finance 310.
course type(s): none

br 304  cr. 3.0
real estate lease analysis
examines concerned leasehold transactions, including office, industrial, retail, and general leases, while focusing on the respective roles of all relevant parties to the lease. prerequisite: real estate 301.
course type(s): none

br 310  cr. 3.0
real estate appraisal
principles and processes of real estate valuation. the sales comparison, cost, and income approaches to value will be examined in depth. also listed as finance 310. not open to students who have successfully completed real estate 302.

prerequisite: finance 301 passed with a grade of C or higher.
corequisite: mathematics 118.
course type(s): none

br 405  cr. 3.0
real estate development
designed to introduce students to the world of real estate development, including the regulatory environment, which must be navigated to successfully gain municipal and other governmental approvals for a land use project. prerequisites: real estate 301, 302 or finance 310, and three credits in real estate.
course type(s): sus

br 489  cr. 3.0
internship in real estate
an opportunity to apply classroom theory in practice through actual work experience; including both academic and experiential learning. the experiential portion involves fifteen to twenty hours of work experience per week for three credit hours, and the academic aspect includes reading assignments and a term paper. students are limited to nine credits of internship electives. repeatable twice for credit. prerequisites: junior standing, a minimum g.p.a. of 2.0, and instructor consent is required.
course type(s): none

br 498  cr. 1.0 - 3.0
special topics in real estate
an intensive study of a particular subject or problem in real estate to be announced prior to registration. may be conducted on either a lecture-discussion or a seminar basis. prerequisite: as announced in the course schedule. course type(s): none

br 499  cr. 1.0 - 3.0
independent study in real estate
independent study on a business administration topic not substantially treated in a regular course; work will include scheduled conferences with sponsoring professor and written reports. prerequisite: prior permission of the directing professor and department chair.
course type(s): none
Appendix A: Course Descriptions

CAREER SEARCH

LC 300 Cr. 1.0
Career Search
Course teaches students the basic skills used to successfully secure employment after graduation and familiarizes students with the hiring process used in most organizations. May not be used to satisfy major or distribution requirements.
Prerequisite: Junior standing.
Course Type(s): none

LC 399 Cr. 3.0
Independent Study in Career Search
Reading and research on a selected topic under the direction of a faculty member.
Course Type(s): none

CHEMISTRY

CE 101 Cr. 3.0
Issues and Methods in Chemistry
Major concepts and methodologies in chemistry and their relation to specific, important issues in today's society.
Prerequisite: Science 100.
Course Type(s): none

CE 109 Cr. 4.0
Introduction to General, Organic, and Biochemistry
Structure of matter, the mole concept, chemical bonds and reactions, acids and bases, structure and reactions of organic compounds, chemistry and metabolism of amino acids, carbohydrates, lipids, proteins, and nucleic acids. Three hours of class, three hours of lab per week.
Prerequisite: High School Chemistry.
Course Type(s): none

CE 111 Cr. 3.0
General Chemistry I
The first of two lecture courses which, taken together, provide a preparation for subsequent courses in chemistry. Principles and theories of chemistry problem solving, stoichiometry, states of matter, atomic and molecular structure, introductory quantum mechanics, thermodynamics, chemical equilibrium, acids and bases, kinetics, electrochemistry, chemistry of metals and nonmetals, and nuclear chemistry. Students who place at level 2 or lower on the mathematics placement test must take either Mathematics 101, 109, 115 or 116 before taking Chemistry 112.
Prerequisite: Mathematics 050 or 101 or 109 or 115 or 116 or 117 or 118 or 125.
Corequisite: Chemistry 111L.
Course Type(s): none

CE 112 Cr. 3.0
General Chemistry II
Continuation of Chemistry 111.
Prerequisites: Chemistry 111 and 111L; both passed with a grade of C- or higher, and either Mathematics 101 or 109 or 115 or 116 or 117 or 118 or 125.
Corequisite: Chemistry 112L.
Course Type(s): none

CE 111L Cr. 1.0
General Chemistry Laboratory I
Laboratory work to complement the class work of Chemistry 111 and 112; review of mathematical fundamentals; experiments involving observation and interpretation of chemical and physical changes; experimental studies of gas laws, thermodynamics, kinetics, equilibrium, acids and bases, qualitative analysis, and molecular mass determination. Three hours per week.
Corequisite: Chemistry 111.
Course Type(s): none

CE 112L Cr. 1.0
General Chemistry Laboratory II
Laboratory work to complement the class work of Chemistry 111 and 112; review of mathematical fundamentals; experiments involving observation and interpretation of chemical and physical changes; experimental studies of gas laws, thermodynamics, kinetics, equilibrium, acids and bases, qualitative analysis, and molecular mass determination. Three hours per week.
Course Type(s): none

CE 198 Cr. 1.0 - 3.0
Special Topics in Chemistry (100 Level)
An intensive study of a particular subject or problem in chemistry to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

CE 220 Cr. 3.0
Environmental Chemistry
Soil, aquatic, and atmospheric chemistry; environmental analytical chemistry; connections to environmental biology. Sources, reactions, mobility, effects, and fates of
chemical species in the soil, water and air environments and the effect of human activity on these. Gives the theoretical principles and techniques of both classical and instrumental methods of chemical analysis.

Prerequisites: Chemistry 112 and 112L, both passed with a minimum grade of C- or higher. Corequisite: Chemistry 220L.

Course Type(s): none

CE 220L
Environmental Chemistry Laboratory
Soil, aquatic and atmospheric chemistry; environmental analytical chemistry; connections to environmental biology. Sources, reactions, mobility, effects and fates of chemical species in the soil, water and air environments and the effect of human activity on these. Laboratory experiments and field trips will be used to address the needs for this course. Students will gain ‘hands-on’ experience in both classical and instrumental methods of chemical analysis. Corequisite: Chemistry 220.

Course Type(s): none

CE 221
Quantitative Analysis
Theoretical principles and techniques of volumetric, gravimetric, and potentiometric methods of analysis; treatment of analytical data, equilibria involving acid-base, redox, complexometric, and precipitation reactions.

Prerequisites: Chemistry 112 and 112L, both passed with a grade of C- or higher.

Corequisite: CE 221L.

Course Type(s): none

CE 221L
Quantitative Analysis Laboratory
Laboratory techniques, procedures, and practice in quantitative analysis of selected substances by volumetric, gravimetric, and potentiometric methods. Six hours per week.

Corequisite: Chemistry 221.

Course Type(s): none

CE 241
Organic Chemistry I
Preparations and reactions of major classes of organic compounds with extensive discussion of reaction mechanisms and stereo-chemistry; interpretation of mass, infrared, and nuclear magnetic resonance spectra.

Prerequisites: Chemistry 112 and 112L, both passed with a grade of C- or higher.

Corequisite: Chemistry 241L.

Course Type(s): none

CE 241L
Organic Chemistry Laboratory I
Laboratory work demonstrating the basic techniques of organic chemistry; qualitative organic analysis; and use of the gas chromatograph and infrared and nuclear magnetic resonance spectrometers to solve problems. Six hours per week.

Corequisite: Chemistry 241.

Course Type(s): none

CE 242
Organic Chemistry II
Preparations and reactions of major classes of organic compounds with extensive discussion of reaction mechanisms and stereo-chemistry; interpretation of mass, infrared, and nuclear magnetic resonance spectra.

Prerequisites: Chemistry 241 and 241L, both passed with a grade of C- or higher.

Course Type(s): none

CE 242L
Organic Chemistry Laboratory II
Laboratory work demonstrating the basic techniques of organic chemistry; qualitative organic analysis; and use of the gas chromatograph and infrared and nuclear magnetic resonance spectrometers to solve problems. Six hours per week.

Prerequisite: Chemistry 241L.

Course Type(s): none

CE 298
Special Topics in Chemistry (200 Level)
An intensive study of a particular subject or problem in chemistry to be announced prior to registration. May be conducted in a lecture, seminar or laboratory format.

Prerequisites: Chemistry 111, 111L, 112, 112L and others, as announced in the course schedule.

Course Type(s): none

CE 299
Independent Study in Chemistry
Original research work planned and carried out with the assistance of a faculty research advisor. The number of course credits will be arranged with the advisor. Three hours per credit.

Course Type(s): none

CE 310
Biochemistry and Lab
A survey of the major principles of biochemistry with
attention to the structures and functions of proteins, carbohydrates, and fats; the major pathways for metabolism of proteins, carbohydrates and fats; and the biochemical basis of DNA replication and gene expression. Laboratory provides hands-on experience in selected biochemical techniques with an emphasis on protein characterization. Designed to provide practice and critique in effective writing and appropriate writing style and format. Also listed as Biology 310. Prerequisite: Chemistry 242 passed with a grade of C- or higher; and English 101 and 102 or permission of the instructor. Course Type(s): MEBP, WT

CE 311 Cr. 1.0
Chemical Literature
A study of the literature of chemistry and the techniques of making source searches; extensive use is made of the library. Prerequisite: Chemistry 241. Course Type(s): none

CE 322 Cr. 3.0
Instrumental Analysis
Basic components of instruments and their arrangements; fundamental principles, applications, and limitations of instrumental methods of chemical analysis; spectroscopic methods (UV-Visible, Fourier transform infrared, Raman, Fluorescence, Phosphorescence, Atomic absorption, Atomic emission, and Mass spectrometry); electrochemical methods (Potentiometry and Voltammetry), separation methods (High Performance liquid chromatography, Gas chromatography and Capillary Electrophoresis). Prerequisites: Chemistry 221 and 221L, Mathematics 126, and Physics 212 and 212L, all passed with a grade of C- or higher; and English 101 and 102 or permission of the instructor. Corequisite: Chemistry 322L. Course Type(s): WT

CE 322L Cr. 1.0
Instrumental Analysis Laboratory
Basic components of instruments and their arrangements; fundamental principles, applications and limitations of instrumental methods of chemical analysis; spectroscopic methods (UV-Visible, Fourier transform infrared, Fluorescence, Atomic absorption and Atomic emission); electrochemical methods (Potentiometry and Voltammetry); separation methods (High Performance liquid chromatography, Gas chromatography - Mass spectrometry). Laboratory experiments and an independent research project will be used to address the needs of this course. Students will gain hands-on experience in instrumental methods of chemical for both qualitative and quantitative work. Corequisite: Chemistry 322. Course Type(s): none

CE 350 Cr. 1.0
Research in Chemistry
Original research work, associated with an external constituent and/or organization, planned and carried out with the assistance of a faculty research advisor. Research conducted by the students will be submitted for outside presentation, publication, or review. The number of course credits will be arranged with the advisor. Forty hours per term. Prerequisites: Chemistry 221, 221L, 242, 242L, an overall GPA of 2.00, a minimum of fifteen credits completed at Monmouth University, and approval of the department. Course Type(s): EX

CE 371 Cr. 3.0
Biophysical Chemistry: Thermodynamics, Dynamics, and Chemical Kinetics
Amplification of concepts in thermodynamics and chemical equilibrium and application of these to biochemical and biological systems. A study of molecular motion and transport properties of molecules including the kinetic theory of gases and diffusion and sedimentation of macromolecules. Application of the kinetic/molecular theory of matter and chemical reaction rates and the study of enzyme reaction kinetics. Prerequisites: Chemistry 372 and 372L; Mathematics 126, and Physics 212, all passed with a grade of C- or higher. Corequisite: Chemistry 371L. Course Type(s): none

CE 371L Cr. 1.0
Biophysical Chemistry Laboratory: Thermodynamics, Dynamics, and Chemical Kinetics
Designed to be taken concurrently with Chemistry 371. The experiments performed complement material studied in Chemistry 371. This laboratory requires the use of modern computer platforms and software for data analysis. Prerequisites: English 101 and 102 or permission of the instructor. Corequisite: Chemistry 371. Course Type(s): WT
CE 372 Cr. 3.0
Physical Chemistry: Introduction to Spectroscopy and Quantum Chemistry
Basic quantum chemistry concepts including the Schrödinger Equation, uncertainty principle, particle in a box, harmonic oscillator, rigid rotor, hydrogen atom and many electron atoms, molecular orbital theory, and the spectroscopic techniques associated with these mathematical models.
Prerequisites: Chemistry 221 and 221L, Mathematics 126, and Physics 212, all passed with a grade of C- or higher.
Corequisite: Chemistry 372L.
Course Type(s): none

CE 372L Cr. 1.0
Physical Chemistry Laboratory: Spectroscopy and Quantum Chemistry
Designed to be taken concurrently with Chemistry 372. Experiments performed complement material studied in Chemistry 372. Requires the use of modern computer platforms and software for data analysis. Also requires use of departmental spectrometers for the study of foundations of spectroscopy and the interpretation of spectra in terms of quantum chemistry concepts.
Prerequisites: English 101 and 102 or permission of the instructor.
Corequisite: Chemistry 372.
Course Type(s): WT

CE 388 Cr. 1.0 - 3.0
Cooperative Education: Chemistry
Application of chemical concepts and skills learned in lecture and laboratory to work-related experiences. Students and faculty sponsors maintain journals of their cooperative education opportunities with the assistance of the Director of Cooperative Education. Students will work forty hours per credit per semester at their jobs. Students will maintain journals of their cooperative education experiences and write reports demonstrating how their experiences helped them achieve their learning goals.
Prerequisites: Chemistry 221, 221L, 242, and 242L; overall GPA of 2.0 minimum; fifteen credits completed at Monmouth University; and approval of the Department of Chemistry.
Course Type(s): EX

CE 389 Cr. 1.0 - 3.0
Internship in Chemistry
Provides an opportunity to apply chemical concepts and skills learned in lecture and laboratory to work-related experiences. Students and faculty sponsors will identify internship opportunities. Students will work forty hours per credit per semester in their internship positions. Students will maintain journals of their internship experiences and write reports demonstrating how their internship experiences helped them achieve the learning objectives identified at the start of the internships.
Prerequisites: Chemistry 221, 221L, 242, 242L; an overall GPA of 2.0 minimum; fifteen credits completed at Monmouth University; and approval by the Department of Chemistry.
Course Type(s): EX

CE 398 Cr. 1.0 - 3.0
Special Topics in Chemistry (300 Level)
An intensive study of a particular subject or problem in chemistry to be announced prior to registration. May be conducted in a lecture, seminar, or laboratory format.
Prerequisites: Chemistry 241, 241L, 242, 242L, and others as announced in the course schedule.
Course Type(s): none

CE 401 Cr. 3.0
Advanced Inorganic Chemistry
Modern theories of inorganic chemistry, including advanced considerations of atomic and molecular structure, chemical bonding, complex ions, solid state chemistry, magnetic properties of ions, periodicity, and contemporary problems.
Prerequisites: Chemistry 242 and 242L, both passed with a grade of C- or higher.
Corequisites: Chemistry 372 and 401L.
Course Type(s): none

CE 401L Cr. 1.0
Advanced Inorganic Chemistry Laboratory
Inorganic synthetic techniques, including inert atmosphere, high temperature, and non-aqueous solvents; methods of characterization of inorganic compounds, including use of spectroscopic and other instrumental methods. Three hours per week.
Corequisite: Chemistry 401.
Course Type(s): none

CE 410 Cr. 1.0
Seminar
Oral presentation of reports and discussion of current and review topics in chemistry.
Prerequisites: Chemistry 311 and 372.
Course Type(s): RD
CE 452 Cr. 3.0
Advanced Organic Chemistry
Selected topics of modern, theoretical, organic chemistry. Prerequisites: Chemistry 242 and 242L, both passed with a grade of C- or higher.
Course Type(s): none

CE 460 Cr. 3.0
Electrochemical Methods
Theory and applications of electrochemical analysis: electrode processes, thermodynamics and kinetics of electrode reactions, controlled potential and controlled current microelectrode techniques, and bulk electrolysis. Corequisite: Chemistry 372.
Course Type(s): none

CE 475 Cr. 3.0
Computational Chemistry and Molecular Modeling
Principal methods and techniques used to study organic molecules and biomolecules by computational methods. Interpretation of chemical data with the aid of a computer. Atomic and molecular orbitals, force fields, molecular dynamics, and molecular modeling and drug design. Prerequisites: Chemistry 372 and 372L, both passed with a grade of C- or higher.
Course Type(s): none

CE 498 Cr. 1.0 - 3.0
Special Topics in Chemistry (400 Level)
An intensive study of a particular subject or problem in chemistry to be announced prior to registration. May be conducted in a lecture, seminar, or laboratory format. Prerequisites or Corequisites: Chemistry 322 and 372, and others as announced in the course schedule.
Course Type(s): none

CE 499 Cr. 1.0 - 4.0
Independent Research in Chemistry
Original research work planned and carried out with the assistance of a faculty research advisor. The number of course credits will be arranged with the advisor. Three hours per credit.
Course Type(s): none

COMMUNICATION

CO 100 Cr. 3.0
Introduction to Communication
Theory, concepts, and practices of the production, transmission, and reception of messages. Examines elements, functions, and types of networks of communication.
Course Type(s): none

CO 102 Cr. 3.0
Working with Audio
Basis principles of radio broadcasting, with emphasis on pre-production, planning, and audio production techniques. Course Type(s): COSPT

CO 120 Cr. 3.0
Interpersonal Communication
The principles and fundamentals of human oral communication in person-to-person and small group environments; the process of encoding and decoding messages, language usage, listening, and feedback.
Course Type(s): none

CO 145 Cr. 3.0
Introduction to Television Production
Introduction to basic studio and field television production equipment, production processes, and approaches to the creation of televised messages. Additional hours to be arranged.
Course Type(s): IM

CO 155 Cr. 3.0
Media Literacy
Introduces students to a range of critical thinking skills for use when encountering media materials, including television, radio, print, and Internet resources. Students will develop an understanding of the complex functions of the mass media industries and an understanding of the aesthetic, emotional, cognitive, and moral choices involved in interpreting media messages.
Course Type(s): none

CO 198 Cr. 1.0 - 3.0
Special Topics in Communication (100 Level)
An intensive study of a particular subject or problem in communication to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis. Prerequisite: As announced in the course schedule.
Course Type(s): none

CO 203 Cr. 3.0
Philosophy of Language
Primarily concerned with questions about the concepts of language, meaning, and understanding. Considers some of the major contributions on these and related concepts. Also listed as Philosophy 203.
Course Type(s): none
CO 205 Cr. 3.0
History of Sports and Media
Examines the development and evolution of selected sports and fields of athletic endeavor primarily in the United States. Students will gain knowledge of various sports, how media has covered and influenced these sports, and how those sports have impacted and influenced American culture and society.
Course Type(s): COSPT

CO 206 Cr. 3.0
Issues in Sports Media
Students examine the way that the media covers, analyzes, and critiques sports and sports issues. Media and sport have become two powerful and influential forces in society today. This class will demonstrate how the two have become irrevocably intertwined.
Course Type(s): COSPT

CO 210 Cr. 3.0
Voice and Diction
Individual voice and articulation problems; practice focusing on improvement in quality, variety, flexibility, and range.
Prerequisite: Communication 100.
Course Type(s): COACM, COCSD, CORTA

CO 211 Cr. 3.0
Introduction to Journalism
Explore how concepts of news are changing and develop a hands-on understanding of the way news is created. Course covers basic journalism techniques and standards and the history of newspapers.
Course Type(s): COSPT

CO 215 Cr. 3.0
Newswriting
Advanced theory and practicum involving municipal, sports, investigative, and court reporting.
Prerequisites: Communication 211; and English 101 and 102 or permission of the instructor.
Course Type(s): WT

CO 216 Cr. 1.0
Journalism/PR Career Preparation
Instructs Communication majors how to effectively pursue opportunities for employment, professional training, and internships. It is designed specifically for Communication students emerging as professionals in the fields of Journalism and Public Relations.
Course Type(s): none

CO 217 Cr. 1.0
Radio/Television Career Preparation
Instructs Communication majors how to effectively pursue opportunities for employment, professional training and internships. It is designed specifically for Communication students studying Radio and Television.
Course Type(s): none

CO 218 Cr. 1.0
Communication Studies Career Preparation
Prepares Communication Studies concentration students how to effectively pursue opportunities for employment, career development and professional training in the field of Communication.
Course Type(s): none

CO 220 Cr. 3.0
Public Speaking
An introduction to the principles and practices of effective public speaking, using traditional rhetorical principles as applied in the composition and delivery of various types of speeches.
Course Type(s): none

CO 223 Cr. 3.0
Argumentation and Debate
The principles of argumentation and their application in the debate situation; the nature and structure of reasoning, the types of evidence, the construction of briefs, and the researching of debate propositions.
Prerequisite: Humanities 201 or permission of the instructor.
Course Type(s): COACM, COCSD

CO 224 Cr. 3.0
Introduction to Mass Communication
The historical development and functions of mass media, such as radio, television, print, and film.
Course Type(s): none

CO 225 Cr. 3.0
Business and Professional Communication
Principles and techniques for developing communication skills within the business and professional situations; emphasis on listening, interpersonal skills, interviewing, small group meetings, negotiations, informative training presentations, and persuasive sales presentations.
Course Type(s): RD
Appendix A: Course Descriptions

CO 226 Cr. 3.0
*Intercultural Communication*
The process of communication between people of different cultures; the influences of culture on communicative messages and meanings.
Course Type(s): CC, CD, COACP

CO 228 Cr. 3.0
*Basic Sign Language*
Prepares students to communicate basic wants and needs with those individuals who are hearing impaired, deaf, or with those who, for other reasons, use sign language as their primary mode of communication. Review of the history of deaf education. Does not fulfill the foreign language requirement.
Course Type(s): none

CO 231 Cr. 3.0
*Performance of Literature*
The fundamental principles of oral interpretation of literature; opportunities for enhancing the understanding and appreciation of prose, poetry, and drama through effective performance.
Prerequisite: Communication 100.
Course Type(s): COACM, COCSD, CORTA

CO 233 Cr. 3.0
*Rhetoric and Persuasion*
Concepts and principles of communicative messages that influence thoughts, attitudes, and behavior. Foundational theories of persuasion, including rhetorical, critical, and social scientific perspectives.
Course Type(s): none

CO 235 Cr. 3.0
*Sports Broadcasting*
Prepares students for an internship at a public or commercial radio station or an entry-level position. Students will learn how to gather, organize, write, report, and broadcast radio sports.
Course Type(s): COSPT

CO 236 Cr. 3.0
*Sports Reporting*
Introduction to the field of sports journalism, which includes standardized news writing techniques as well as feature writing.
Course Type(s): COSPT

CO 241 Cr. 3.0
*Introduction to Screen Studies*
Introduction to the disciplined study of the Screen Arts - motion picture film, television, video, and digital multimedia - with respect to the operation of the various elements of sound and image as they operate within the text of the visual work screened. Includes screening and discussion of various representative works.
Course Type(s): COSS, IM

CO 242 Cr. 3.0
*Creating Good Radio*
Broadcasting as effective communication; practical experience in writing, producing, directing, and performing in radio programs; critical analysis of various professional broadcasts.
Prerequisite: Communication 102.
Course Type(s): CORTP

CO 243 Cr. 3.0
*History of the Motion Picture*
An introduction to the major phases of motion picture history from its origins to the present, including screenings and discussions of major film movements, technological innovations, and landmark directors.
Course Type(s): COSS

CO 246 Cr. 3.0
*Producing and Directing for Television (TV2)*
The application of aesthetic theory and production principles via studio television production assignments. Emphasis is placed upon the roles of producer and director in live television production. Additional studio hours to be arranged.
Prerequisite: Communication 145.
Course Type(s): CORTP

CO 250 Cr. 3.0
*Global Communication*
Introduces students to the various aspects of global communication, primarily media communication, journalism, and public relations. Particular emphasis will be on the categories of difference such as gender, race, class, and ethnicity. Global communication is reshaping economic, social, cultural, and political aspects of our lives nationally and internationally. Hence, in this course students will explore essential components of the global communication emphasizing shifts in national, regional and international media patterns and trends including production, distribution, and consumption.
Course Type(s): COPRT, GU
CO 260  Cr. 3.0  
*Contemporary News Design*
A working knowledge of type, art, and graphic elements, and the techniques for designing newspaper and magazine pages.
Prerequisite: Communication 211 or 295.
Course Type(s): none

CO 262  Cr. 1.0  
*Co-Curricular Practicum in Radio*
Credit for specified assignments at the University radio station is awarded after a term-end evaluation by the instructor of the project agreed upon with the student. May not count toward major requirements. May be repeated for a total of six credits; limited to students active at the radio station for at least one semester.
Prerequisite: Instructor permission.
Course Type(s): none

CO 263  Cr. 1.0  
*Co-Curricular Practicum in Television*
Credit for specified assignments at the University television station is awarded after a term-end evaluation by the instructor of the project agreed upon with the student. May not count toward major requirements. May be repeated for a total of six credits; limited to students active at HAWK TV for at least one semester.
Prerequisite: Instructor permission.
Course Type(s): none

CO 264  Cr. 1.0  
*Co-Curricular Practicum in Journalism*
Credit for specified assignments at the University newspaper is awarded after a term-end evaluation by the instructor of the project agreed upon with the student. May not count toward major requirements. May be repeated for a total of six credits; limited to students active at The Outlook for at least one semester.
Prerequisite: Instructor permission.
Course Type(s): none

CO 265  Cr. 1.0  
*Co-Curricular Practicum in Public Relations*
Credit for specified public relations assignments for the Public Relations Student Society of America (PRSSA), University Clubs and Associations, and/or the University Communication Department is awarded after a term-end evaluation by the instructor of the project agreed upon with the student. May not count toward major requirements; may be repeated for a total of six credits.
Prerequisite: Instructor permission; limited to students active with PRSSA for at least one semester; students may also gain entry with previous experience on a public relations event/project and provide tangible evidence to advisor.
Course Type(s): none

CO 266  Cr. 1.0  
*Co-Curricular Practicum in CommWorks*
Credit for specified performance assignments with CommWorks (Students Committed to Performance) and, by extension, the University Communication Department is awarded after a term-end evaluation by the instructor of the project agreed upon with the student. May not count toward major requirements. May be repeated for a total of six credits; limited to students active in CommWorks for at least one semester. Students may also gain entry with previous substantial experience in performance, theatre, and/or forensics; student must provide tangible evidence to the advisor.
Prerequisite: Permission of the instructor is required.
Course Type(s): none

CO 267  Cr. 1.0  
*Co-Curricular Practicum in MOCC*
One credit for specified assignments with MOCC and by extension the University Communication Department is awarded after a term-end evaluation by the instructor of the project agreed upon with the student. The course may not count toward other major requirements. May be repeated for a total of six credits.
Prerequisite: Consent of the instructor.
Course Type(s): none

CO 270  Cr. 3.0  
*Radio in America*
A study of the history of radio, including its golden age, crisis, and new role in today’s society. Examining radio as a business and profession also will be analyzed.
Prerequisite: Communication 102.
Course Type(s): CORTT

CO 272  Cr. 3.0  
*Real People Reel Stories*
Learning to tell a story through video testimonies/interviews. Socially conscious topics will be chosen from quality of life issues being explored by our new on-campus Polling Institute or those presented by community aid organizations.
Prerequisite: Prior permission of the directing professor.
Course Type(s): COACM, CORTP, EX
## Appendix A: Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO 275</td>
<td>Cr. 3.0</td>
</tr>
<tr>
<td><strong>Performance for Radio</strong></td>
<td></td>
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<tr>
<td>The fundamentals of radio announcing will be stressed along with station orientation. The student will develop strong vocal skills for a variety of radio personalities over the air.</td>
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<tr>
<td>Prerequisite: Communication 102.</td>
<td></td>
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<tr>
<td>Course Type(s): CORTA</td>
<td></td>
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</tbody>
</table>

| CO 288      | Cr. 3.0 |
| **Cooperative Education: Communication**  |  |
| Professional work experience in a communication position. May be repeated for credit.  |  |
| Prerequisites: Junior or Senior standing and departmental approval.  |  |
| Course Type(s): EX  |  |

| CO 290      | Cr. 3.0 |
| **Media Law**  |  |
| How the mass media is constrained and protected by the law and court interpretation. Overview will focus on libel, copyright, obscenity, free press, and other legal/illegal aspects of mass communication. Only open to communication majors.  |  |
| Course Type(s): COPRT, CORTT  |  |

| CO 291      | Cr. 3.0 |
| **Media Ethics**  |  |
| Exposure to a range of ethical concerns, choices, and practices across various media forms through case studies, readings, and discussions.  |  |
| Prerequisites: English 101 and 102 or permission of the instructor.  |  |
| Course Type(s): COPRT, CORTT, WT  |  |

| CO 292      | Cr. 3.0 |
| **Communication Research Methods**  |  |
| Introduction to the use of the scientific methods, various research approaches, and application of both qualitative and quantitative methods for application in the field of communication.  |  |
| Prerequisites: Communication 100, Mathematics 105; and at least six credits in the major.  |  |
| Course Type(s): none  |  |

| CO 295      | Cr. 3.0 |
| **Introduction to Public Relations**  |  |
| A comprehensive survey of the field of public relations. Emphasis on the evolution, role, functions, and scope of public relations in American society.  |  |
| Course Type(s): none  |  |

| CO 296      | Cr. 3.0 |
| **Public Relations Fundraising**  |  |
| Designed to provide an introduction to the practice, programs, and publics of fund raising. Development of a fundraising campaign will be produced for a nonprofit client. Written and oral communication skills essential to the professional fund raiser will be practiced in class and through assignments. May be offered in a hybrid format (partially online).  |  |
| Prerequisite: Communication 295.  |  |
| Course Type(s): COPRT  |  |

| CO 297      | Cr. 1.0 |
| **Contemporary Issues in Cinema**  |  |
| Current topics in contemporary cinema, with an emphasis on engagement with current film and video makers, and analysis and critique of cutting edge work in the field of screen production. Note: Must be taken in sequence in subsequent semesters.  |  |
| Prerequisites: Communication 241 and permission of the instructor.  |  |
| Course Type(s): COSS  |  |

| CO 298      | Cr. 1.0 - 3.0 |
| **Special Topics in Communication (200 Level)**  |  |
| An intensive study of a particular subject or problem in communication to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.  |  |
| Prerequisite: As announced in the course schedule.  |  |
| Course Type(s): none  |  |

| CO 299      | Cr. 3.0 |
| **Independent Study for the Minor in Writing**  |  |
| For the Writing Minor, development of major writing project under the guidance of a faculty member.  |  |
| Prerequisite: Eighteen credits in the Writing Minor.  |  |
| Course Type(s): none  |  |

| CO 301      | Cr. 3.0 |
| **Communication Theory**  |  |
| Introduces students to the study of communication theory from interpersonal, small group, and organizational, to the mass media.  |  |
| Prerequisites: Junior standing, Communication 292 and English 102 passed with a grade of C or higher; eighteen credits of communication courses completed; and English 101 or permission of the instructor.  |  |
| Course Type(s): WT  |  |
Appendix A: Course Descriptions

CO 309  Cr. 3.0  
Family Communication  
Explores couple and family communication processes. Focuses on how individuals use interaction to establish, maintain, and change personal, romantic and family relationships.  
Prerequisites: Communication 100 and 120.  
Course Type(s): COACP, COCSP

CO 311  Cr. 3.0  
Communication Ethics  
An introduction to communication ethics and related contemporary issues intended to support students in the making of principled communication decisions.  
Course Type(s): COACP, COPRT, CORTT

CO 313  Cr. 3.0  
Public Relations Writing  
A study into the fundamentals of effective public relations writing, including production of media releases, position papers, and media kits. The course focuses on writing style and technique, along with form and distribution methods.  
Prerequisite: Communication 295.  
Course Type(s): none

CO 317  Cr. 3.0  
Civic Journalism  
News with a community service attitude. Gain hands-on experience through speakers, field trips, interviews, and involvement with local issues. Students write civic journalism news stories and host a community symposium to encourage dialogue among diverse community groups.  
Prerequisite: Communication 211.  
Course Type(s): COPRM, EX

CO 318  Cr. 3.0  
Topics in Film  
Explores in-depth a specialized topic relevant to film and cultural studies. The topic changes each time the course is taught and may include a particular film director, genre or historical period.  
Course Type(s): COCST, COPRT, CORTT, COSS

CO 320  Cr. 3.0  
Small Group Communication  
The process of group communication, leadership, decision-making, and problem solving; participation in various types of discussion situations and the development of effective communication within the group setting. Also listed as Sociology 320.  
Prerequisite: Communication 100.  
Course Type(s): COACM, COCST

CO 321  Cr. 3.0  
Nonverbal Communication  
A study of the process and effects of the kinesic, paralinguistic, tactile, olfactory, artifactual, and proxemic aspects of nonverbal communication.  
Prerequisite: Communication 100 or 120.  
Course Type(s): COACM, COCST

CO 323  Cr. 3.0  
Persuasion  
Concepts and principles of communicative messages that influence thoughts, attitudes, and behavior; roles of source, message, channel, and receiver.  
Prerequisites: Communication 100; and Communication 233 or permission of the instructor.  
Course Type(s): COACP, COCSP, COPRT

CO 324  Cr. 3.0  
Intercollegiate Forensics  
Practical application of rhetorical, interpretative, and theatrical principles to a competitive collegiate environment. Students will participate in a minimum of twenty five rounds of tournament competition.  
Course Type(s): none

CO 327  Cr. 3.0  
Civic Participation  
Explores how public communication shapes and reinvigorates civic participation, offering ways of understanding and resolving civic problems in democratic societies.  
Prerequisites: Communication 100, 120, and 225.  
Course Type(s): COACP, COCSP, COCST, COPRT

CO 330  Cr. 3.0  
News Editing  
Copy-editing techniques for reviewing and improving news writing.  
Prerequisite: Communication 211 or 295.  
Course Type(s): COPRM

CO 333  Cr. 3.0  
Online Journalism  
Explore the world of electronic information from a journalist's perspective. Learn to use and evaluate electronic resources including search engines, e-mail, news groups, directories, and databases for reporting news. Covers reporting and composing news stories for online publication
CO 334  Cr. 3.0
Advanced Performance of Literature
The analysis and performance of outstanding literary works in prose, poetry, and drama. Emphasis is placed on the development of the student's performance skills and program building for public recital. Prerequisite: Communication 231.
Course Type(s): COACM

CO 335  Cr. 3.0
Group Techniques in Performance of Literature
Various theories and techniques used in group performances with a concentration on Readers Theatre and Chamber Theatre; selected literature is arranged, analyzed, and performed. Also listed as Theatre 335. Prerequisite: Communication 231.
Course Type(s): COACM, CORTA

CO 337  Cr. 3.0
Performance Theory and Practice
The study of performance offers students the opportunity to explore the power of performance in its diverse forms in both theory and practice. Students will experience a wide variety of performance contexts, including performances of self in everyday life, performances of culture, performances of literature, and socially engaged, original performance art.
Course Type(s): COACM, COCST, CORTA

CO 338  Cr. 3.0
Advanced Video Production and Editing
A hands-on workshop allowing advanced students to work on individual projects with instructor guidance based on each student's level of experience. Students learn field production and AVID editing. Prerequisite: Communication 145.
Course Type(s): CORTP, IM

CO 340  Cr. 3.0
Writing the Review
The process of writing newspaper opinion pieces on film and theatre presentations. Prerequisites: Communication 211 or permission of the instructor; and English 101 and 102 or permission of the instructor.
Course Type(s): COPRM, COSS, WT

CO 342  Cr. 3.0
Editorial Writing
Editorial writing is the style of persuasive writing found on a newspaper's editorial pages, in online and print magazines, and in scripting some radio and television talk shows. This writing style is based on mounting a balanced, credible argument and persuading others to share a viewpoint. Exposes students to the work of famous op-ed writers and involves practice at writing a variety of opinion articles. Students will gain experience in doing research into current trends and events, persuasive writing, and exploring the multiple sides to an argument. Prerequisites: Communication 211 or permission of the instructor; and English 101 and 102 or permission of the instructor.
Course Type(s): COPRM, WT

CO 343  Cr. 3.0
Performance and Social Activism
Students survey the recent history, theories, and methods of creative activist performance and produce original performances that function as embodied visions of social change and/or resistance to social norms. Emphasis is placed on representations of gender, race/ethnicity, sexuality, class, ability, etc. as well as structural inequalities and social injustice.
Course Type(s): COCSD

CO 345  Cr. 3.0
Electronic Field Production and Editing (TV3)
Instruction and experience as independent producers of creative, feature, and documentary segments. Prerequisite: Communication 246.
Course Type(s): CORTP

CO 346  Cr. 3.0
Documentary Film and Video
An introduction to the history and development of documentary film and video, with screenings and discussions of examples of works from the major movements in documentary, and small group production of an original documentary. Course Type(s): CORTW, COSS

CO 350  Cr. 3.0
Broadcast Newswriting and Reporting
Writing and reporting techniques for broadcast news; the process of news preparation from leads or sources through copy preparation, to on-air delivery. Prerequisite: Communication 145.
Course Type(s): CORTW
CO 351 Cr. 3.0
Broadcast Copywriting
Practical application of creative writing for radio and television.
Prerequisite: Communication 102 or 145.
Course Type(s): CORTW

CO 352 Cr. 3.0
Broadcast News Operation
Overview of the TV/radio newsroom operation: staffing, budgets, and philosophy of reporting news and decision-making in the newsroom will all be stressed. The class will produce both radio and TV news shows.
Prerequisite: Communication 145 or permission of the instructor.
Course Type(s): CORTP

CO 357 Cr. 3.0
Acting for Television
Techniques that the on-camera performer uses in various TV situations, commercials, daytime drama, situation comedy, and serious drama. Also listed as Theatre 357.
Prerequisite: Theatre 154.
Course Type(s): CORTA

CO 360 Cr. 3.0
Feature Writing
The process of developing ideas into feature stories.
Prerequisites: Communication 211 or permission of the instructor; and English 101 and 102 or permission of the instructor.
Course Type(s): COPRM, WT

CO 365 Cr. 3.0
Screenwriting
Writing techniques for film and television, with an emphasis on the process of screenwriting, from concept to completion and revision, as well as marketing scripts written for the screen.
Prerequisite: Communication 155 or permission of the instructor.
Course Type(s): CORTW, COSS

CO 367 Cr. 3.0
Media Analysis
Literary, rhetorical, and informational analysis of the content of mass media.
Prerequisites: Communication 155; and English 101 and 102 or permission of the instructor.
Course Type(s): COPRT, CORTT, WT

CO 373 Cr. 3.0
The Music Industry
A critical examination of the inner workings and business strategies that exist within the symbiotic relationship between the radio and music industry. Topics of discussion include: payola, marketing, promotion, indecency/obscenity, political economy theory, gate-keeping theory, subculture theory, and audience-making theories.
Prerequisite: Junior status.
Course Type(s): CORTT

CO 374 Cr. 3.0
Radio Programming and Promotion
Overview of the principles of radio programming and promotions: formats, FCC rules, ratings, on-air experience, theories, and music selection choice will all be stressed. The class will produce programming and promotions to be aired on WMCX.
Prerequisite: Communication 102.
Course Type(s): CORTP

CO 375 Cr. 3.0
Television Criticism
Analysis and critical examination of the content of television programs.
Prerequisites: Communication 155; and English 101 and 102 or permission of the instructor.
Course Type(s): CORTT, WT

CO 376 Cr. 3.0
Radio Station Management
Principles of management for radio stations. Discussions and practicum include: programming, promotions, sales, public relations, production, community relations, sports, and news.
Prerequisites: Communication 102 and 270.
Course Type(s): CORTT

CO 377 Cr. 3.0
Radio Operation Practice
Seminar offered in summer only.
Prerequisites: Communication 102 and permission of the instructor.
Course Type(s): none

CO 378 Cr. 3.0
Talk Radio
Introduction to the preparation of documentaries, interviews, and phone-in talk shows.
Prerequisites: Communication 102 and 275; or permis-
CO 379  Cr. 3.0
**Advanced Radio Production**
Advanced audio production techniques utilizing digital technology, with emphasis on the conception and realization of effective messages in radio broadcasting.
Prerequisite: Communication 102 or 242 and permission of the instructor.
Course Type(s): CORTP, EX

CO 380  Cr. 3.0
**Organizational Communication**
Organizational communication theories and concepts are applied through the assessment of communication practices within organizations. Students will conduct communication audits of actual organizations to analyze strengths and weaknesses as well as to make recommendations for improving effective and ethical communication.
Prerequisites: Junior standing; Communication 100 and 225 or permission of the instructor; and English 101 and 102 or permission of the instructor.
Course Type(s): COACP, COCSP, WT

CO 381  Cr. 3.0
**The Power of Story**
Story is the most powerful and oldest means of communication. Examines its significance in constructing and preserving culture. We focus on the oral art of storytelling, its history, theory, and practice, using a multicultural approach. Students will write, select, prepare, and perform stories from a variety of cultures and literary sources. Students will use learned performance skills in class and at off-campus locations.
Prerequisite: Junior standing or instructor permission.
Course Type(s): COACM, COCSD, EX

CO 383  Cr. 3.0
**Gender, Race, and Media**
Examines multiple understandings of masculinity, femininity, and ethnicity in contemporary society, emphasizing the influential role of the mass media. Students consider the sources of their own attitudes about gender and race and reflect on the personal, social, political, and economic consequences of these expectations.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): COACP, COCSP, COPRT, CORTT, GS, NU.EL, WT

CO 388  Cr. 3.0
**Cooperative Education: Communication**
Professional work experience in a communication position. This course may be repeated for credit.
Prerequisites: Junior or Senior standing; departmental approval.
Course Type(s): EX

CO 389  Cr. 1.0 - 3.0
**Internship in Communication**
Supervised, practical experience in communication (radio, television, public relations, journalism, and human communication); emphasis on the application of discipline specific technologies and theories in a professional environment directly related to one’s course of study.
Prerequisites: Communication 216 or 217 or 218, Departmental approval, and Junior standing.
Course Type(s): EX

CO 390  Cr. 7.0 - 12.0
**Washington Center Internship**
Internship. Also listed as Political Science 390.
Prerequisites: Junior standing; 2.50 GPA minimum.
Course Type(s): EX

CO 393  Cr. 3.0
**Washington Center Course**
Students participating in a Washington Center Internship are required to enroll in a three credit seminar. A list of available courses is forwarded to all students prior to the beginning of the fall, spring, or summer term. Regular offerings include politics, professional communication, the fine and performing arts, and economics. Also listed as Political Science 393.
Prerequisites: Junior standing; 2.50 GPA minimum.
Course Type(s): none

CO 397  Cr. 1.0
**Contemporary Issues in Cinema**
Current topics in contemporary cinema, with an emphasis on engagement with current film and video makers, and analysis and critique of cutting edge work in the field of screen production. Must be taken in sequence in subsequent semesters.
Prerequisites: Communication 241 and permission of the instructor.
Course Type(s): COSS
CO 398 Cr. 1.0 - 3.0
Special Topics in Communication and Theatre (300 Level)
An intensive study of a particular subject or problem in communication to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis. Prerequisite: As announced in the course schedule. Course Type(s): none

CO 399 Cr. 1.0 - 3.0
Independent Study in Communication
Guided research on selected topics in Communication. Prior permission of the directing professor and department chair is required. Prerequisite: Demonstrated ability in the proposed area of concentration. Course Type(s): none

CO 404 Cr. 3.0
Responsive Media
Students explore methods to create interactive media art that involves response and participation as an essential aspect to the work. The class combines hands-on training in building software and physical interfaces that allow for user interaction and readings from critical texts that examine theoretical issues surrounding this practice. The course readings will illuminate contemporary strategies for engaging public participation, provide a historical context, and introduce the student to important practitioners in this field. Meets six hours a week. Also listed as Art 404. Prerequisite: Communication 145 or Art 181. Course Type(s): CORTP

CO 409 Cr. 3.0
Professional Media Writing
Provides an introduction to the diverse field of professional writing and integrates a comprehensive overview of the various skills required of today's freelance media writer. Class sessions will offer students practical and critical tools designed to develop a range of writing styles and techniques, while introducing related applications and career opportunities. Lab assignments and writing projects will integrate the tools explored in class. Prerequisites: Junior standing and instructor permission. Course Type(s): COPRM, CORTW

CO 412 Cr. 3.0
Project Greenlight
An orientation to career opportunities/advancement based on the successful pitch process necessary to achieve greenlight status for proposed media projects. Provides a comprehensive overview of new media formats, stages of media production, and related entertainment media technologies, products and services. Additionally, the course will examine the vital roles of producers and creative executives in these processes. Students will learn how to transform themselves from media consumers to media producers. No previous media-related training or experience is required. Prerequisites: Junior standing and instructor permission. Course Type(s): COPRT, CORTT

CO 413 Cr. 3.0
Advanced Public Relations Writing Layout and Design
Simulates a field public relations agency or department by providing students real world or field-applicable skills. An emphasis on media tools and production enables students to work in a fast-paced, deadline-intensive environment. The principles of communicating with media and specialized public audiences are core along with the preparation, production, and presentation of messages for mass consumption. Prerequisites: Communication 295 and 313. Course Type(s): COPRM

CO 414 Cr. 3.0
Public Relations Campaigns
Application of public relations techniques to various communicative environments, communication problems, and crisis management. Prerequisites: Communication 295 and 313 or permission of the instructor. Course Type(s): COPRM

CO 415 Cr. 3.0
Public Relations Campaigns: Trends and Analysis
Examines, reviews, and predicts how corporate leaders solve today's public relations challenges. Curriculum focuses on existing field trends and evaluates effective, as well as ineffective, corporate strategies. Students develop an integral understanding of the vital role of public relations in successful profit and non-profit organizations. Students develop an understanding of the issues management process, identify and plan crisis administration programs, and implement public affairs communication. Student assignments include research, composition of case statements, position papers, solutions and evaluative methods involving publicity demands, special events, promotions, image problems, and other challenges. Prerequisite: Communication 295. Course Type(s): COPRT
CO 425 Cr. 3.0

Political Communication
The impact of communication on political action. Persuasive strategies and mediated reality that affect political choices. Focus on the interpretation of political rhetoric and the role media plays in campaigns. Also listed as Political Science 425.
Prerequisite: Communication 100 or 220 or instructor permission.
Course Type(s): COACP, COCST, COPRT

CO 427 Cr. 3.0

Crisis and Issues Management
Advanced public relations theory and practices dealing with management of organizational crisis and issues. Exploration of the process of research, analysis, planning, and implementation of crisis management. Examination of the role of the public relations professional in the development of crisis communication strategies and tactics. Emphasis on control of crisis, rumor, public perception, corporate image, and reputation. Use of case studies, simulations, group exercises, and projects to develop skills in crisis and issues management.
Prerequisite: Communication 295.
Course Type(s): COPRT

CO 483 Cr. 3.0

Communication Internship Seminar
Supervised, practical experience in communication (radio, television, public relations, and human communication); emphasis on the application of discipline specific technologies and theories in a professional environment directly related to one’s course of study. On-campus seminar attendance is required. May be repeated once for credit.
Prerequisites: Communication 216 or 217 or 218, Departmental approval and Junior standing.
Course Type(s): EX

CO 484 Cr. 3.0

Communication Internship Seminar
Supervised, practical experience in communications (radio, television, public relations, and human relations); emphasis on the programming, production, and transmission aspects of mass media. On-campus attendance is required. May be repeated once for credit.
Prerequisites: Departmental approval; Junior standing.
Course Type(s): EX

CO 488 Cr. 3.0

Cooperative Education: Communication
Professional work experience in a communication position. May be repeated for credit.
Prerequisites: Departmental approval and Junior or Senior standing.
Course Type(s): EX

CO 489 Cr. 3.0

Internship in Communication
Supervised practical experience in communication (radio, television, public relations, and human relations) or journalism; emphasis on the programming, production, and transmission aspects of mass media. Repeatable for credit.
Prerequisites: Junior standing, departmental approval, and placement.
Course Type(s): EX

CO 491 Cr. 3.0

Seminar in Communication
Communication as an organized body of knowledge and skills; advanced problems assigned according to the special interests of the student. For Communication majors only.
Prerequisites: Communication 301, Senior standing, at least thirty credit hours in the department, and successful completion of English 102 with a grade of C or higher.
Course Type(s): none

CO 497 Cr. 1.0

Contemporary Issues in Cinema
Current topics in contemporary cinema, with an emphasis on engagement with current film and video makers, and analysis and critique of cutting edge work in the field of screen production. Note: Must be taken in sequence in subsequent semesters.
Prerequisites: Communication 241, 297, 397, and permission of the instructor.
Course Type(s): COSS

CO 498 Cr. 1.0 - 3.0

Special Topics in Communication (400 Level)
An intensive study of a particular subject or problem in communication to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: Demonstrated ability in the proposed area of concentration.
Course Type(s): none
**CO 499 Cr. 3.0**  
*Independent Study in Communication*  
Guided research on selected topics in Communication. Prior permission of the directing professor and department chair is required. Prerequisite: Demonstrated ability in the proposed area of concentration. Course Type(s): none

**COMPUTER SCIENCE**

**CS 102 Cr. 4.0**  
*Introduction to Computing and Problem Solving*  
Introduces a broad overview of computing topics, designed to provide students with awareness of the computing field’s many aspects. Topics include fundamentals of computer architecture, operating systems, applications, networks and problem-solving. Computing topics are demonstrated and presented using computing applications including word processors, spreadsheets, databases, presentation software, and Web page development software. Introduces social and ethical issues related to computing and explores the local and global impact of computing on individuals, organizations and society. It also gives students their initial exposure to group project work. Course Type(s): TL

**CS 175 Cr. 4.0**  
*Introduction to Computer Science I*  
Introduction to the basic concepts of program development in a modern object-oriented language; problem-solving methods and algorithm development; basic data types; language syntax; style and documentation; and coding and testing of programs. Prerequisite: Computer Science 102. Course Type(s): none

**CS 176 Cr. 4.0**  
*Introduction to Computer Science II*  
Continuation in depth and breadth of problem-solving and algorithm development, using the same modern object-oriented language as in Computer Science 175. More advanced, object-oriented design. Introduction to polymorphism and inheritance. Four hours per week. Prerequisite: Computer Science 175 passed with a grade of C or higher. Course Type(s): none

**CS 199 Cr. 1.0 - 3.0**  
*Independent Study in Computer Science*  
Independent study in a computer science topic not substantially treated in a regular course; for students with superior ability. One-hour consultation per week. Prerequisite: Prior permission of directing professor and department chair required. Course Type(s): none

**CS 202 Cr. 4.0**  
*Discrete Mathematics and Applications*  
Covers the basic concepts, methods, structures, throughout computer science. Topics addressed include: logic and mathematical reasoning, functions, sets, summations, asymptotic notation, algorithms and complexity, number theory, cryptography, matrix algebra, induction and recursion, counting techniques, combinatorial objects, discrete structures, discrete probability theory, relations, and graph theory and graph algorithms. Prerequisite: Mathematics 109. Course Type(s): none

**CS 212 Cr. 3.0**  
*Networking Fundamentals I*  
Prepares students with knowledge and skills required to successfully install, operate, and troubleshoot a small branch office network. Includes topics on networking fundamentals; connecting to a WAN; basic security and wireless concepts; routing and switching fundamentals; the TCP/IP and OSI models; IP addressing; WAN technologies; operating and configuring IOS devices; configuring RIPv2, static and default routing; implementing NAT and DHCP; and configuring simple networks. Course Type(s): none

**CS 222 Cr. 3.0**  
*Networking Fundamentals II*  
Prepares students with knowledge and skills required to successfully install, operate, and troubleshoot a small to medium size enterprise branch network. Covers topics on VLSM and IPv6 addressing; extending switched networks with VLANs; configuring, verifying and troubleshooting VLANs; the VTP, RSTP, OSPF and EIGRP protocols; determining IP routes, managing IP traffic with access lists; NAT and DHCP; establishing point-to-point connections; and establishing Frame Relay connections. Prerequisite: Computer Science 212. Course Type(s): none
Appendix A: Course Descriptions

CS 275 Cr. 3.0
Introduction to an Algorithmic Language
A thorough overview of the syntax of an algorithmic language and stress on the concepts of structured programming. Four hours per week.
Prerequisite: Permission of the instructor.
Course Type(s): none

CS 286 Cr. 3.0
Computer Architecture I
Prerequisites: Computer Science 176 or 275, passed with a grade of C or higher.
Course Type(s): none

CS 288 Cr. 3.0
Cooperative Education: Computer Science
Provides an opportunity for students who are engaged in a computer science-related work experience. Fifteen to twenty hours of work experience per week. May be repeated for credit.
Prerequisites: Junior standing and thirty or more earned credits with at least fifteen taken at Monmouth University.
Course Type(s): EX

CS 298 Cr. 1.0 - 3.0
Special Topics in Computer Science (200 Level)
An intensive study of a particular subject or problem in computer science to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis. Three or four hours per week.
Prerequisite: As announced in the course schedule.
Course Type(s): none

CS 302 Cr. 3.0
Designing and Implementing Routing in Enterprise Networks
Prepares students with knowledge and skills necessary to use advanced IP addressing and routing in implementing scalable and secure routers connected to LANs and WANs. Also covers configuration of secure routing solutions to support branch offices and mobile workers.
Prerequisites: Computer Science 212 and 222, both passed with a grade of C or higher.
Course Type(s): none

CS 305 Cr. 4.0
Data Structures and Algorithms
Introduction to the design, implementation, and use of fundamental data structures (lists, stacks, queues, trees); extensions of these structures and associated algorithms and informal complexity analysis. Four hours per week.
Prerequisites: Computer Science 176, passed with a grade of C or higher and either Mathematics 120, 130, or Computer Science 202, passed with a grade of C or higher.
Course Type(s): none

CS 306 Cr. 4.0
Computer Algorithms II
Continuation in depth and breadth of the design, implementation, and use of data types (list, binary search tree, tree, hash table, graph); intermediate algorithm design; complexity analysis. Four hours per week.
Prerequisite: Computer Science 305 passed with a grade of C or higher.
Course Type(s): none

CS 310 Cr. 4.0
Advanced Object-Oriented Programming and Design
Object-oriented programming and design, using a language different from that used in CS 176. Use of classes, inheritance, polymorphism, and libraries.
Prerequisite: Computer Science 305 passed with a grade of C or higher; and English 101 and 102 or permission of the instructor.
Course Type(s): WT

CS 312 Cr. 3.0
Designing and Implementing Switching in Enterprise Networks
Prepares students with knowledge and skills necessary to plan, configure, and verify the implementation of complex enterprise switching solutions using Enterprise Architecture. Also covers secure integration of VLANs, WLANs, and voice and video into campus networks.
Prerequisite: Computer Science 302 passed with a grade of C or higher.
Course Type(s): none

CS 315 Cr. 3.0
Theory of Computing
An introduction to phrase structure languages and their relation to automata, computability, and program verification.
Prerequisites: Computer Science 176 or 275, passed with a grade of C or higher and either Computer Science 202
or Mathematics 120 or 130, passed with a grade of C or higher.

Course Type(s): none

CS 316 Cr. 3.0
Implementing Network Security
Prepares students with knowledge and skills required to secure networks. Includes topics on core security technologies, the installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices, and competency in the technologies that use its security structures. A hands-on career oriented course, with an emphasis on practical experience, to help students develop specialized security skills, along with critical thinking and complex problem solving skills.
Prerequisites: Computer Science 212 and 222, both passed with a grade of C or higher.
Course Type(s): none

CS 320 Cr. 3.0
IP Telephony Design and Implementation
Prepares students with knowledge of how to implement and support data and voice integration solutions at the network-access level. Topics covered include basic IP Telephony operation, router configuration, support, troubleshooting, and integration with an existing PSTN network.
Prerequisites: Computer Science 212 and 222, both passed with a grade of C or higher.
Course Type(s): none

CS 322 Cr. 3.0
Network Troubleshooting
Prepares students with knowledge and skills necessary to plan and perform regular maintenance on complex enterprise routed and switched networks and use technology-based practices to perform network troubleshooting.
Prerequisite: Computer Science 312 passed with a grade of C or higher.
Course Type(s): none

CS 324 Cr. 3.0
Computer Architecture II
Boolean algebra, combinational and sequential circuit devices are presented in lectures and laboratory. Computer hardware organization. Memory and CPU design. CPU control with microcode. Four hours per week.
Prerequisite: Computer Science 286 passed with a grade of C or higher.
Course Type(s): none

CS 325 Cr. 3.0
Software Engineering Concepts
Overview of software engineering concepts, analysis/design techniques, software documentation, and group development of software. Requires collaboration and teamwork on a significant software project moving through its entire development lifecycle. Some portions of the work will be done within the groups and other portions will be done individually.
Prerequisite: Computer Science 305 passed with a grade of C or higher; and English 101 and 102 or permission of the instructor.
Course Type(s): WT

CS 330 Cr. 3.0
Administrating Unified Communication Manager
Prepares students with knowledge of deploying a Unified Communications Manager to support single site and multi-site deployment models.
Prerequisites: Computer Science 212 and 222, both passed with a grade of C or higher.
Course Type(s): none

CS 335 Cr. 3.0
Programming Language Concepts
Design, evaluation, and implementation of programming languages. Discussion of imperative, applicative, object-oriented and concurrent languages. Four hours per week.
Prerequisite: Computer Science 305 passed with a grade of C or higher.
Course Type(s): none

CS 350 Cr. 1.0 – 4.0
Research in Computer Science
Original research work, associated with an external constituent and/or organization, planned and carried out with assistance of faculty research advisor. Research conducted by the student will be shared with the external constituency and submitted for outside publication and review. Number of credits arranged with advisor. Limited to Computer Science students with approval of chair, program director, or advisor.
Prerequisites: Junior standing, Computer Science 306 passed with a grade of C or higher, a minimum of fifteen credits at Monmouth University, and a minimum GPA of 3.25.

CS 370 Cr. 3.0
Program Development Under Unix
Introduction to the use of the UNIX operating system and its utilities for incremental and distributed program devel-
opment, maintenance, and debugging. The course covers the UNIX shell, utilities, and program development tools that are used for large projects involving multiple developers on multiple machines. Three hours per week.
Prerequisite: Computer Science 176 or Computer Science 275, passed with a grade of C or higher.
Course Type(s): none

**CS 375 Cr. 4.0**
*File Management*
Overview of files, records and files, blocking and buffering, secondary storage devices; sequential file organization, external sort/merge algorithms; random access; relative file organization; tree-structured file organization; search trees, indexed sequential file organization; list-structured file organization; multiple-key file organization. Four hours per week.
Prerequisite: Computer Science 305 passed with a grade of C or higher.
Course Type(s): none

**CS 388 Cr. 3.0**
*Cooperative Education: Computer Science*
Provides an opportunity for students who are engaged in a computer science-related experience. Fifteen to twenty hours of work experience per week. This course may be repeated for credit.
Prerequisites: Junior standing and thirty or more earned credits with at least fifteen taken at Monmouth University.
Course Type(s): EX

**CS 398 Cr. 1.0 - 3.0**
*Special Topics in Computer Science (300 Level)*
An intensive study of a particular subject or problem in computer science to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis. Three or four hours per week.
Prerequisite: As announced in the course schedule.
Course Type(s): none

**CS 414 Cr. 4.0**
*Computer Networks*
Provides introduction to computer-networking concepts, technologies, and services, including basic communications theory, analog and digital devices, Public Switched Telephone Network, data networks, LANs, wireless services, data protocols, the Internet, multi-media, and B-ISDN.
Prerequisite: Computer Science 286 passed with a grade of C or higher.
Course Type(s): none

**CS 418 Cr. 3.0**
*Compiler Construction*
The principles and practices of incorporating the theory of finite automata and context-free languages, the maintenance and use of semantic information, and the generation and optimization of code to produce a compiler. Four hours per week.
Prerequisites: Computer Science 305 passed with a grade of C or higher.
Course Type(s): none

**CS 420 Cr. 4.0**
*Survey of Artificial Intelligence Concepts and Practices*
Introduction to fundamental concepts and practices of artificial intelligence, covering problem definition, search techniques, knowledge representation, control knowledge, and symbolic reasoning. Includes at least two of the following advanced topics: planning, understanding, natural language processing, learning, connectionist models, common sense reasoning, and expert systems. Four hours per week.
Prerequisite: Computer Science 305 passed with a grade of C or higher.
Course Type(s): none

**CS 432 Cr. 4.0**
*Database Systems*
Overview of database system concepts; data modeling; ER and UML diagrams; relational database schema definition; database design; query languages; hands-on experience of SQL and oracle. Four hours per week.
Prerequisite: Computer Science 305 passed with a grade of C or higher.
Course Type(s): none

**CS 435 Cr. 3.0**
*Systems Programming*
Introduction to the implementation of basic system software: text editors, assemblers, loaders, and macro processors, with emphasis on software methodology for creating and maintaining large programs. The language of instruction will be C, which will be briefly introduced. Four hours per week.
Prerequisites: Computer Science 286 and 305, both passed with a grade of C or higher, and Senior standing.
Course Type(s): none
CS 438  Cr. 4.0
Operating Systems Analysis
Management of memory, processes, files, and devices. OS design principles and performance measures.
Multiprogramming, multiprocessing, concurrency, deadlock, virtual machines. Competitive and cooperating processes.
Programs will be written in C. Throughout the course, students will be expected to work in pairs to solve problems and in a larger group for a more substantial project.
Prerequisites: Computer Science 286 and 305, both passed with a grade of C or higher.
Course Type(s): none

CS 445  Cr. 3.0
Computer Graphics
Drawing lines and curves, area filling, fractals, three dimensional viewing, clipping, ray-tracing, shading, hidden line and surface removal. Four hours per week.
Prerequisite: Computer Science 305 passed with a grade of C or higher.
Course Type(s): none

CS 461  Cr. 3.0
Simulation and Modeling
An introduction to the use of discrete event simulation and other modeling methods and tools to predict the performance of computer systems and communications networks.
Prerequisite: Computer Science 305 passed with a grade of C or higher: Mathematics 319 recommended.
Course Type(s): none

CS 471  Cr. 3.0
System Administration
Fundamental topics in system administration, focused primarily on Unix administration with added coverage of Microsoft Windows NT descendant systems. The course is a hands-on introduction to installing and maintaining modern, multi-user, production Unix-like operating systems and the essential services that are hosted on these systems.
Prerequisite: Computer Science 370 passed with a grade of C or higher.
Course Type(s): none

CS 488  Cr. 3.0
Cooperative Education: Computer Science
Provides an opportunity for students who are engaged in a computer science-related experience. Fifteen to twenty hours of work experience per week. May be repeated for credit.
Prerequisites: Junior standing and thirty or more earned credits with at least fifteen taken at Monmouth University.
Course Type(s): EX

CS 490  Cr. 4.0
Senior Project
Affords the student an opportunity to integrate topics and techniques from previous coursework in a capstone project. The project will combine investigation into computer science literature and actual implementation, either in an area of current research or an application area of interest to industry. Implementation might involve collaboration with other students. The project will be presented formally, both orally and in written form.
Prerequisites: Computer Science 325 and 432, both passed with a grade of C or higher.
Course Type(s): RD

CS 498  Cr. 1.0 - 3.0
Special Topics in Computer Science (400 Level)
An intensive study of a particular subject or problem in computer science to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis. Three or four hours per week.
Prerequisite: As announced in the course schedule.
Course Type(s): none

CS 499  Cr. 1.0 - 3.0
Independent Study in Computer Science
Independent study in a computer science topic not substantially treated in a regular course; for students with superior ability. One-hour consultation per week.
Prerequisite: Prior permission of directing professor and department chair required.
Course Type(s): none

CRIMINAL JUSTICE

CJ 101  Cr. 3.0
Introduction to Criminal Justice
Basic constitutional limitations of criminal justice; the development of law enforcement from feudal times; law enforcement agencies; and the court system as it pertains to criminal justice and corrections.
Course Type(s): none

CJ 198  Cr. 1.0 - 3.0
Special Topics in Criminal Justice (100 Level)
An intensive study of a particular subject or problem in criminal justice to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Appendix A: Course Descriptions

Prerequisite: As announced in the course schedule.  
Course Type(s): none

CJ 201 Cr. 3.0  
**Police Role in the Community**  
Community perception of police, courts, and correction; concepts of community and public relations; community control; and problems of justice associated with racial and ethnic groups.  
Prerequisite: Criminal Justice 101 or Sociology 101.  
Course Type(s): none

CJ 204 Cr. 3.0  
**Administration and Organization in Criminal Justice**  
Criminal justice application of organizational theory and principles: administrative process; organizational factors; management techniques; and budgetary practices.  
Course Type(s): none

CJ 205 Cr. 3.0  
**Corrections**  
Current correctional theories and practices; historical development of the correctional system.  
Course Type(s): none

CJ 210 Cr. 3.0  
**Judicial Administration**  
Management of judicial processes; administrative relationships of courts with defendants, police, prosecutors, defense counsel, bail agencies, probation officers, and correctional agencies; and grand and petit jury procedures.  
Prerequisite: Criminal Justice 101.  
Course Type(s): none

CJ 211 Cr. 3.0  
**Statistics for Criminal Justice**  
Introduction to the basic methodological and statistical techniques used in criminal justice; introduction to statistical terminology as variables, unit of analysis, statistical significance, measurement, correlation, causation, and hypothesis testing.  
Prerequisite: Three credits in mathematics, excluding Mathematics 050, 100, and 103.  
Course Type(s): none

CJ 212 Cr. 3.0  
**Introduction to Homeland Security**  
Provides students with an in-depth examination of the major policies, practices, concepts, and challenges confronting practitioners in the complex field of homeland security. Provides an overview of various threats to domestic security from terrorism, and other related risks and vulnerabilities, examining government policies, risk management, national preparedness, and preventative methods necessary in preventing acts of terrorism. Also designed to provide students with an overview of national strategies focused on safety and security, and preparedness policies in order for the nation to respond effectively to disasters, both natural and man-made.  
Course Type(s): none

CJ 215 Cr. 3.0  
**Environmental Security**  
The protection and security of personal, company, and public property; measures intended to safeguard against theft, damage, assault, and sabotage.  
Course Type(s): none

CJ 225 Cr. 3.0  
**Law Enforcement**  
The origin and development of law enforcement; police strategies, organizational factors, and problems.  
Prerequisite: Criminal Justice 101.  
Course Type(s): none

CJ 230 Cr. 3.0  
**Criminal Investigation**  
Introduction to the principles of criminal investigations, the rules and procedures of preliminary and follow-up investigations, the art of interrogation, recording of statements, confessions, and the collection and preservation of physical evidence at the crime scene.  
Prerequisite: Criminal Justice 101.  
Course Type(s): none

CJ 235 Cr. 3.0  
**GIS Applications in Homeland Security**  
Focus on the basic theories in Geographic Information Systems (GIS) and hands-on experience Practical approach to analyze criminal justice related homeland security data. Students will develop a skill set to map crime data and perform spatial analytical tasks.  
Course Type(s): none

CJ 240 Cr. 3.0  
**Professional Writing in Criminal Justice**  
Designed to help students develop the writing skills necessary for a career in criminal justice. Completion and revision of various internal and external forms of communication that are commonly used by criminal justice pro-
**CJ 241 Cr. 3.0**  
**Criminology**  
Explanations of the causes of property and violent offenses. Discussion of white collar, professional and organized crime, and the problem of criminal statistics.  
Prerequisites: Criminal Justice 101; and English 101 and 102 or permission of the instructor.  
Course Type(s): WT

**CJ 280 Cr. 3.0**  
**Introduction to Forensic Science**  
Introduction to concepts of forensic science with emphasis on the recognition, identification, individualization, and evaluation of physical evidence by applying the natural sciences to law-science matters.  
Course Type(s): none

**CJ 285 Cr. 3.0**  
**Domestic and International Terrorism**  
Introduces students to terrorism in the contemporary era, focusing on the post-World War II period as a primary emphasis. The purpose of this course is to familiarize students with international and domestic terrorism, concentrating on definitional issues, acts of terrorism and the relationship between culture, religion, history, politics, economics and ideology. Other topics will include the media’s role, female terrorists, conventional and unconventional terrorist tactics, and counter-terrorism strategies and laws.  
Course Type(s): none

**CJ 286 Cr. 3.0**  
**Principles of Emergency Management**  
Introduces students to the background components and systems involved in the management of disasters and other emergencies. Focusing on the United States, the course will illustrate current practices, strategies and key players involved in emergency management.  
Course Type(s): none

**CJ 288 Cr. 3.0**  
**Cooperative Education: Criminal Justice**  
Professional work experience in a criminal justice-related position. May be repeated for credit.  
Prerequisites: Departmental approval, a minimum GPA of 2.00, and completion of thirty credits.  
Course Type(s): EX

**CJ 298 Cr. 1.0 - 3.0**  
**Special Topics in Criminal Justice (200 Level)**  
An intensive study of a particular subject or problem in criminal justice to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.  
Prerequisite: As announced in the course schedule.  
Course Type(s): none

**CJ 299 Cr. 1.0 - 3.0**  
**Independent Study in Criminal Justice**  
Guided readings on a topic not otherwise covered in the curriculum.  
Course Type(s): none

**CJ 301 Cr. 3.0**  
**Crime Control in the USA, Japan, and China**  
A comparative approach is used to examine formal, social control mechanisms that include law, police, courts corrections, and informal, social control mechanisms that contain values, beliefs, family, workplace, school, neighborhood, and other social organizations in three societies: The USA, Japan, and China.  
Course Type(s): GU

**CJ 305 Cr. 3.0**  
**Criminal Law**  
The nature, purposes, principles, and doctrine of modern criminal law; landmark cases; and important issues.  
Course Type(s): none

**CJ 313 Cr. 3.0**  
**The Pretrial Prosecution System**  
The pre-trial prosecution process as a political system. The roles, attitudes, and strategies of those authorities who allocate values within the system are examined. Also listed as Political Science 313.  
Prerequisite: Political Science 101 or 103.  
Course Type(s): none

**CJ 315 Cr. 3.0**  
**Research Methods**  
Basic skills necessary for Criminal Justice research: principles of measurement, research design, hypotheses testing, and sampling strategies. Not available to students who have successfully completed CJ 250.  
Prerequisites: Criminal Justice 211 or Mathematics 151;
Appendix A: Course Descriptions

and English 101 and 102 or permission of the instructor.
Course Type(s): WT

CJ 317 Cr. 3.0
Law of Evidence
The history and development of the rules of evidence, including relevancy and materiality, competency, burden of proof, direct and circumstantial, examination of witnesses, hearsay rule, unconstitutionally obtained, and presenting and collecting.
Prerequisite: Criminal Justice 101.
Course Type(s): none

CJ 320 Cr. 3.0
Infrastructure Security Issues
Introduces students to the practices of federal, state, local, and private entities to protect the nation from acts of terrorism. The focus of the course will be placed on an understanding of the importance of security towards the nation's defense and the various methods of protection utilized by organizations working within homeland security. Topics include the history and evolution of security, fundamentals of defense, and specific threats to homeland security.
Course Type(s): none

CJ 325 Cr. 3.0
Criminal Procedure
Examination of the criminal justice process and underlying public policy considerations.
Course Type(s): none

CJ 330 Cr. 3.0
Crisis Intervention
Practical everyday handling techniques for intervention in such crises as suicide, emotional disturbance, and family conflicts; theory and research pertaining to intervention in life-stress situations. Attempts to raise the student's level of empathy and interpersonal sensitivity via role playing and self-reflection.
Course Type(s): none

CJ 332 Cr. 3.0
Advanced Police Administration
Advanced supervisory and managerial practices, analysis of policy formulation, decision-making, budgeting, planning, and innovative administrative procedures.
Course Type(s): none

CJ 335 Cr. 3.0
Juvenile Justice
Introduction to the area of juvenile justice; the juvenile court; a review of juvenile justice procedures; the interaction of police and juveniles; dispositional alternatives; and delinquency prevention programs.
Prerequisite: Criminal Justice 101 or a 100-level sociology course.
Course Type(s): none

CJ 340 Cr. 3.0
The American Penal System
History, philosophy, and organizational structure of the correctional system in the United States, including issues of race, gender, and morality.
Prerequisite: Criminal Justice 205.
Course Type(s): none

CJ 341 Cr. 3.0
Occupational Crime
Economic and fiscal implications of white-collar and blue-collar crime; definitions, explanations, control strategies, enforcement techniques, and the role of the criminal justice system.
Course Type(s): none

CJ 350 Cr. 3.0
Ethical Issues in Criminal Justice
Explore various ethical issues inherent in policing, courts, and correctional work. Address ethical standards in social-science research and political correctness.
Prerequisites: Criminal Justice 101; and English 101 and 102 or permission of the instructor.
Course Type(s): none

CJ 351 Cr. 3.0
Sentencing Practices
History, philosophy, and rationale behind past and present sentencing schemes: the indeterminate and determinate sentences; the death penalty; and non-custodial sentences.
Prerequisites: Criminal Justice 101 and 205.
Course Type(s): none

CJ 359 Cr. 3.0
Crime Prevention and Control
Problems in the definition of crime; crime prevention as a social movement; and review and evaluation of major models of crime prevention and control.
Appendix A: Course Descriptions

Prerequisite: Six credits in sociology or criminal justice. Course Type(s): none

CJ 360 Cr. 3.0
Comparative Criminal Justice Systems
Comparison of selected foreign justice systems with that of the United States.
Prerequisite: Criminal Justice 101. Course Type(s): none

CJ 362 Cr. 3.0
Community-Based Corrections
Methods for dealing with the offender in the community; probation, parole, residential treatment, restitution, and the evaluation of each.
Prerequisites: Criminal Justice 101 or Social Work 101 and Criminal Justice 205. Course Type(s): none

CJ 365 Cr. 3.0
Forensic Pathology
Introduction to the concepts of forensic pathology with an emphasis on the recognition and interpretation of diseases and injuries in the human body that is the basis for medicolegal investigations.
Prerequisite: Criminal Justice 280. Course Type(s): none

CJ 370 Cr. 3.0
Institutional Treatment of the Offender
Strategies employed in providing treatment and support services to the inmate; physical, psychological, and social environmental factors.
Prerequisites: Criminal Justice 101 or Social Work 101 and Criminal Justice 205. Course Type(s): none

CJ 375 Cr. 3.0
Internship in Criminal Justice
Practical experiences in administration of justice through assignment to judicial, law enforcement, or correctional agencies under joint-supervision of agency officials and Monmouth University instructors.
Prerequisites: Criminal Justice 101; and English 101 and 102 or permission of the instructor. Course Type(s): EX, WT

CJ 380 Cr. 3.0
Forensic Psychology
Criminal personalities in relationship to specific crimes; exposure to techniques of interviewing and interrogating these criminals.
Course Type(s): none

CJ 384 Cr. 3.0
Crime Scene Investigation
Understanding the nature of crime scene investigation and the basic principles necessary for a successful investigative outcome.
Prerequisite: Criminal Justice 280. Course Type(s): none

CJ 385 Cr. 3.0
Cyber Terrorism
Provides students with an in-depth examination of evolving technologies that directly impact the homeland security domain. Information systems technologies are being utilized to make our lives more efficient on a global scale, and have emerged to improve and also threaten our national security. It is the usage of technology, and in particular the global information infrastructure, by which terrorists communicate, coordinate and facilitate their initiatives and ideologies. Students will explore elements of cyber terrorism and emerging technologies that can facilitate and strengthen capability specific national priorities in order to improve national preparedness.
Course Type(s): none

CJ 386 Cr. 3.0
Teamwork Crime
Understanding the nature of technology crimes in terms of criminal investigation and collection of electronic evidence.
Course Type(s): none

CJ 387 Cr. 3.0
Arson and Bomb Investigation
Introduction to concepts of arson/bomb investigation with emphasis on reconstruction origin and cause analysis.
Prerequisite: Criminal Justice 280. Course Type(s): none

CJ 388 Cr. 3.0
Cooperative Education: Criminal Justice
Professional work experience in a criminal justice-related position. May be repeated for credit.
Prerequisites: Departmental approval, a minimum GPA of 2.00, and completion of thirty credits.
Course Type(s): EX.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 390</td>
<td>4.0</td>
<td>Forensic Science I</td>
<td>Designed to explain the concepts of recognition, identification, individualization, and evaluation of physical evidence by application of basic scientific principles used in the practice of forensic science.</td>
<td>Course Type(s): none</td>
</tr>
<tr>
<td>CJ 391</td>
<td>4.0</td>
<td>Forensic Science II</td>
<td>Designed to explain the concepts of recognition, identification, individualization, and evaluation of physical evidence, such as blood and semen, firearms, gunshot residue, fire debris, and explosions, in the context of real-world situations.</td>
<td>Prerequisite: Criminal Justice 390.</td>
</tr>
<tr>
<td>CJ 394</td>
<td>3.0</td>
<td>Terrorism: Crisis and Terrorism</td>
<td>Explores the psychological impact of terrorism including psychiatric disorders, physiological changes, and social/family disruption. Strategies and techniques for identifying trauma and skill for intervention will be discussed.</td>
<td>Prerequisite: Criminal Justice 212.</td>
</tr>
<tr>
<td>CJ 395</td>
<td>3.0</td>
<td>Terroristic Crime Scene Investigation</td>
<td>Utilizing modern investigative technology in terrorist crime scenes; specialized evidence collection; role of crime scene manager.</td>
<td>Prerequisite: Criminal Justice 212.</td>
</tr>
<tr>
<td>CJ 398</td>
<td>1.0 - 3.0</td>
<td>Special Topics in Criminal Justice (300 Level)</td>
<td>An intensive study of a particular subject or problem in criminal justice to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.</td>
<td>Prerequisite: As announced in the course schedule.</td>
</tr>
<tr>
<td>CJ 401</td>
<td>3.0</td>
<td>Special Problems in Law Enforcement</td>
<td>Special problems that are not encountered in normal daily activities of police departments, including riots and emergency service functions, such as fire scenes, lost children, and crime prevention.</td>
<td>Prerequisite: Nine credits in Criminal Justice.</td>
</tr>
<tr>
<td>CJ 402</td>
<td>3.0</td>
<td>Field Research in Criminal Justice</td>
<td>Study, research, and specific projects in criminal justice under the supervision of a Criminal Justice faculty member; a written report is required.</td>
<td>Prerequisites: Eighteen credits in Criminal Justice and permission of the coordinator.</td>
</tr>
<tr>
<td>CJ 410</td>
<td>3.0</td>
<td>Intelligence and Threat Analysis</td>
<td>Introduces students to intelligence gathering and its role in defending our nation from acts of terrorism. To present the importance and techniques of intelligence-gathering as they relate to our government's preparation for and response to acts of terrorism. The course describes intelligence within homeland security and how such information is used to analyze and prepare for threats to our nation.</td>
<td>Course Type(s): none</td>
</tr>
<tr>
<td>CJ 420</td>
<td>3.0</td>
<td>Strategic Security Management</td>
<td>Reviews the new business demands on the security professional in a post-September 11 era. The purpose of this course is to provide an understanding of how to use hard data to drive a security strategy and to measure success of a program. Topics covered will include threat assessment, vulnerability assessment, and risk assessment, highlighting the differences, advantages, and disadvantages of each, as well as establishing effective security programs.</td>
<td>Course Type(s): none</td>
</tr>
<tr>
<td>CJ 430</td>
<td>3.0</td>
<td>Weapons of Mass Destruction</td>
<td>Focus on practical and theoretical aspects of preparing for and dealing with incidents involving Weapons of Mass Destruction. Discussion on various devices and the means of delivering damage. Analysis of the intelligence approaches to reduce such an event.</td>
<td>Course Type(s): none</td>
</tr>
<tr>
<td>CJ 480</td>
<td>3.0</td>
<td>Criminal Justice Research Project</td>
<td>Active participation in a research project chosen by and currently being pursued by the faculty sponsor. Student activities may include but are not limited to: literature search, data collection, data analysis, and preparation of a manuscript.</td>
<td>Prerequisites: Criminal Justice 315, Junior or Senior standing, and permission of instructor and department chair.</td>
</tr>
</tbody>
</table>

Appendix A: Course Descriptions
CJ 488 Cr. 3.0
Cooperative Education: Criminal Justice
Professional work experience in a criminal justice-related position.
Prerequisites: Departmental approval, a minimum GPA of 2.00, and completion of thirty credits.
Course Type(s): EX

CJ 490 Cr. 4.0
Seminar in Criminal Justice
Selected topics in criminal justice; presentation and discussion of research paper.
Prerequisites: Senior standing in the major and Criminal Justice 315.
Course Type(s): none

CJ 498 Cr. 1.0 - 3.0
Special Topics in Criminal Justice (400 Level)
An intensive study of a particular subject or problem in criminal justice to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

CJ 499 Cr. 1.0 - 3.0
Independent Study in Criminal Justice
Guided readings on a topic not otherwise covered in the curriculum.
Prerequisites: Senior standing and a minimum GPA of 2.50; prior permission of the directing professor and department chair.
Course Type(s): none

DANCE

DA 101 Cr. 3.0
Dance Appreciation
Introduction to the extraordinarily diverse dance forms found throughout the world. Development of an appreciation of dance as an art. The history, aesthetic elements, and communicative power of dance movements will be examined.
Course Type(s): AT

DA 151 Cr. 3.0
Movement for the Performer
Designed for the students to gain body awareness and proper body alignment through physical practice and imagery, while learning proper dance terminology. Creative movement, improvisation, and choreography will also be addressed. By the end of the course, the student will be able to properly warm-up the body in preparation for performance.
Course Type(s): none

DA 198 Cr. 1.0 - 3.0
Special Topics in Dance (100 Level)
An intensive study of a particular dance form to be announced prior to registration, involving the practical application of a dance form through practice and performance.
Prerequisite: As announced in the course schedule.
Course Type(s): none

DA 207 Cr. 3.0
Modern Ballet I
Integration of the techniques of modern and classical ballet; modern ballet history and theory to be examined, with emphasis on movement and performance.
Course Type(s): none

DA 209 Cr. 3.0
Jazz Dance I
Introduction to jazz dance techniques; skills development in jazz movement, body control, and stage performance.
Course Type(s): none

DA 211 Cr. 3.0
Jazz Dance II
Advanced jazz dance techniques; advanced skills development in jazz movement, body control, and stage performance.
Prerequisite: Dance 209 or permission of the instructor.
Course Type(s): none

DA 298 Cr. 1.0 - 3.0
Special Topics in Dance (200 Level)
An intensive study of a particular dance form to be announced prior to registration. The course involves the particular application of the dance form through practice and performance.
Prerequisite: As announced in the course schedule.
Course Type(s): none

DA 301 Cr. 3.0
Choreography
How to initiate, develop, manipulate, and edit movement to craft a dance with form and intent. Teaches creative and practical skills. The conception, planning, and realization of complete dances will be studied and practiced. Students will create and perform their own choreography. Outstanding
Appendix A: Course Descriptions

work will be showcased in departmental productions.
Course Type(s): none

DA 499 Cr. 1.0 - 3.0
Independent Study in Dance
Guided research on selected topics in Dance.
Course Type(s): none

EDUCATION – CURRICULUM AND INSTRUCTION

ED 101 Cr. 1.0
Transition to College
The identification and management of the academic and socio-emotional issues confronting the student during the transitional stage from secondary to post-secondary education.
Prerequisite: Permission of the instructor.
Course Type(s): none

ED 250 Cr. 3.0
Foundations of Teaching and Learning
Enhances a teacher candidate’s background in principles and practices of elementary and secondary education, including curriculum planning, evaluation, procedures, classroom management, core curriculum standards, and school organization. Relevant information about national and state standards (NCATE, INTASC, PRAXIS, NBTS, and NJCCCS) will be addressed. Sociological, historical, and philosophical foundations of education are examined. Observation and participation in actual classroom procedures are required through structured field experiences. Limited to Education majors.
Prerequisites: Educational Leadership 201, a minimum GPA of 2.75, and Sophomore standing.
Course Type(s): none

ED 319 Cr. 3.0
Content Literacy
Designed to focus on the development of literacy through the integration of literature and literate thinking across the curriculum for academic-content learning at the secondary level. It emphasizes the implementation of both teaching and learning strategies to develop independent learners. Limited to Education majors.
Prerequisites: A minimum GPA of 2.75; English 101 and 102 or permission of the instructor. Corequisite: Education 319N. Prerequisite or Corequisite: Education 250.
Course Type(s): EX, WT

ED 319N Cr. 0.0
Content Literacy
NCATE Assessment
Corequisite: Education 319.
Course Type(s): none

ED 320 Cr. 3.0
Teaching Students with Diverse Needs
Addresses two issues in today’s field of education: ESL students in mainstream classrooms and students with special needs in inclusion classrooms. The relevant topics will be explored to provide teacher candidates with a theoretical foundation, an understanding of their legal responsibility, and an opportunity to design instruction addressing various needs of diverse students in an inclusive setting. Limited to Education majors.
Prerequisites: Education 250, a minimum GPA of 2.75; and English 101 and 102 or permission of the instructor.
Course Type(s): RD, WT

ED 321 Cr. 3.0
Supplemental Instruction in Reading and Mathematics
Focus is on supplemental instruction for reading and mathematics in educational settings 6-8, but draws heavily on assessment and analysis of student errors from Pre-K to 5 as well. Extensive opportunities for diagnosis and planning for remedial intervention in reading and mathematics will be provided.
Prerequisites: Education 360, Educational Leadership 327, and a minimum GPA of 2.75.
Course Type(s): none

ED 327 Cr. 3.0
Theories and Practice of ESL Instruction Part I
With an emphasis on teaching English through content, part one of this two-semester course will introduce the history of ESL teaching and critically explore exemplary curriculum designs and methods of teaching ESL. A wide range of ESL instructional materials, services, and assessment measures will be introduced and practiced, with an emphasis on standard-based content and ESL teaching. Both instructional design and implementation will be the focus for practice, with embedded language acquisition/learning theories and research studies carefully examined.
Prerequisites: Education 320 and a minimum GPA of 2.75. Corequisite: Education 327N.
Course Type(s): none
ED 327N  Cr. 0.0
Theories and Practices of ESL Instruction Part I
NCATE Assessment
Corequisite: Education 327.
Course Type(s): none

ED 328  Cr. 3.0
Theory and Practice of ESL Instruction Part II
A continuation of ED 327 examines public issues pertinent to ESL education, with an emphasis on making connections between theories or research findings and classroom practice. More approaches to ESL instruction will be introduced with an emphasis on various strategies and techniques for teaching specific language skills in a standard-based content and ESL teaching program. Reflective practice is an integral part.
Prerequisites: Education 327 or 374, English 442, and a minimum GPA of 2.75.
Corequisite: ED 328N.
Course Type(s): none

ED 328N  Cr. 0.0
Theory and Practice ESL Instruction Part II
NCATE Assessment
Corequisite: ED 328.
Course Type(s): none

ED 331  Cr. 2.0
Music for the Child
Methods and materials of teaching in the elementary school (K-8); singing, rhythmic expression, listening, use of simple instruments, and correlating music with other areas of learning. For Education majors only. Also listed as Music 331.
Prerequisites: Music 151 and 218.
Course Type(s): none

ED 333  Cr. 2.0
The Teaching of Music in the Secondary School
Study and application of appropriate concepts, methods, skills, and materials for secondary-school music teachers. For Education majors only. Also listed as Music 333.
Prerequisites: Music 151 and 218.
Course Type(s): none

ED 351  Cr. 3.0
Methods of Teaching Art I
The history and philosophy of art education; the construction of art curricula and the exploration of teaching methods; media and tools appropriate for the educational level. Methods I deals with the needs of the elementary school child. Open to Education majors only. Also listed as Art 351.
Prerequisites: Art 114, 116, and 192.
Course Type(s): none

ED 352  Cr. 3.0
Methods of Teaching Art II
The history and philosophy of art education; the construction of art curricula and the exploration of teaching methods; media and tools appropriate for the educational level. Methods II deals with the needs of the adolescent. Open to Art and Education majors only. Also listed as Art 352.
Prerequisite: Art 351 or Education 351.
Course Type(s): none

ED 360  Cr. 3.0
Methods of Teaching Elementary Mathematics
Designed to provide a profound understanding of the concepts taught in elementary school mathematics. Demonstrated for teacher candidates are techniques to foster conceptual development in young learners, thus producing confidence and success in the learning of mathematics. The essential elements of instruction, assessment, grouping strategies, and effective questioning are illustrated and honed when planning to address the instructional needs for diverse learners in mathematics.
Prerequisites: Mathematics 103 or 203, Educational Leadership 326, and a minimum GPA of 2.75.
Corequisite: Education 360N.
Course Type(s): EX

ED 360N  Cr. 0.0
Methods of Teaching Elementary Mathematics
NCATE Assessment Corequisite: Education 360.
Course Type(s): none

ED 361  Cr. 3.0
Methods of Teaching Science for Elementary School
Designed for those without a strong background in science (although those with a strong background will also benefit greatly from this course.) The intent of this course is to provide an integrated perspective for teaching science from pre-kindergarten through grade 8. This course has a field experience component.
Prerequisites: Educational Leadership 326 and a minimum GPA of 2.75.
Corequisite: Education 361N.
Course Type(s): EX
### ED 361N  
**Methods of Teaching Science for Elementary School**  
NCATE Assessment  
Corequisite: Education 361.  
Course Type(s): none  

### ED 362  
**Teaching Elementary Social Studies**  
Introduces the elementary teacher certification candidates to the social studies curriculum and methods. Course content will emphasize national and state standards for social studies education, cross-curriculum integration, particularly world languages and culture, personal and social problem solving, and situated cognition in social studies education learning. The essential elements of planning, instruction, and assessment are explored to address the needs of diverse learners in social studies education.  
Prerequisites: Educational Leadership 326 and a minimum GPA of 2.75.  
Corequisite: Education 362N.  
Course Type(s): EX  

### ED 362N  
**Teaching Elementary Social Studies**  
NCATE Assessment  
Corequisite: Education 362.  
Course Type(s): EX  

### ED 365  
**Mathematics for the Secondary Teacher Part I**  
Designed to deepen future secondary-school teachers’ understanding of the complexities of the secondary mathematics curriculum and to build upon their competencies at the instructional implementation level. Teacher candidates are offered a unified perspective of curriculum and teaching at the secondary level in mathematics. Included is exploration into inquiry-based learning, the essential elements of instruction, assessment, grouping strategies, and effective questioning as these techniques are utilized to bring conceptual understanding of important mathematics to all learners in this content area. The experiential component provides the candidates with opportunities to translate theory into practice.  
Prerequisites: Education 319 or Educational Leadership 327 and a minimum GPA of 2.75. Corequisite: Education 365N.  
Course Type(s): EX  

### ED 365N  
**Mathematics for the Secondary Teacher Part I**  
NCATE Assessment  
Corequisite: Education 365.  
Course Type(s): none  

### ED 366  
**Mathematics for the Secondary Teacher Part II**  
Depends on the understanding of future secondary-school teachers in the complexities of the secondary mathematics curriculum and builds their competencies at the level of instructional implementation. Instructional methodologies studied in Education 365 will be more broadly applied to more advanced mathematical concepts. Limited to Education majors.  
Prerequisites: Education 365 and a minimum GPA of 2.75.  
Corequisite: Education 366N.  
Course Type(s): EX  

### ED 366N  
**Mathematics for the Secondary Teacher Part II**  
NCATE Assessment  
Corequisite: Education 366.  
Course Type(s): none  

### ED 367  
**Teaching Language Arts at the Secondary Level Part I**  
As a component of the teacher-education program, the intention is to introduce to the future secondary English/Language Arts teachers the fundamental concepts of curriculum design and instructional planning. To also introduce a variety of approaches to curriculum design with an emphasis on the two distinct but important goals of language arts education: developing general literacy skills and discovering the inner joy of reading literature and using language as a tool for communication. Topics related to decision-making, classroom management, and instructional planning are treated in depth to help prospective teachers master the basic competencies at the level of planning to fulfill the requirement for state and national certification. The experiential component provides the students with opportunities for hands-on experiences for deepening understanding and strengthening competencies.  
Prerequisites: Education 319 or Educational Leadership 327 and a minimum GPA of 2.75. Corequisite: Education 367N.  
Course Type(s): EX  

### ED 367N  
**Teaching Language Arts at the Secondary Level Part I**  
NCATE Assessment  
Corequisite: Education 367.  
Course Type(s): none
ED 368 Cr. 3.0
Teaching Language Arts at the Secondary Level Part II
Provides in-depth preparation to teacher candidates desiring to teach English/Language Arts at the secondary level by extending the essential knowledge, skills, and strategies grounded in research and related to effective classroom instruction. Teacher candidates will have increased opportunities to apply theory and refine practice in the use of print and nonprint texts and in the integration of the English Language Arts. The NCTE/IRA and New Jersey Core Content Curriculum Standards will be an integral part of the course. Candidates are required to complete a thirty-hour practicum in a local school. Prerequisites: Education 367 and a minimum GPA of 2.75. Corequisite: Education 368N. Course Type(s): EX

ED 368N Cr. 0.0
Teaching Language Arts at the Secondary Level Part II
NCATE Assessment
Corequisite: Education 368. Course Type(s): none

ED 369 Cr. 3.0
Methods of Teaching Science for the Secondary Teacher Part I
Science methods for middle and secondary-education students is designed for those with a strong background in science. The intent is to provide an integrated perspective of teaching science from grade 9 through grade 12. It also provides active learning of science concepts through various inquiry activities. Following the learning theories that have produced both the National Science Education Standards and the New Jersey Core Curriculum Content Standards for science, it will utilize projects, cases, and problems in real-world settings, using a diversity of instructional methods and strategies to provide each student with the opportunity to learn how to teach inquiry and problem-solving across the sciences. It has a thirty-hour field component. Limited to Education majors. Prerequisites: Education 369 and a minimum GPA of 2.75. Corequisite: Education 370N. Course Type(s): none

ED 370 Cr. 3.0
Methods of Teaching Science for the Secondary Teacher Part II
Science methods for middle and secondary-education students is designed for those with a strong background in science. The intent is to provide an integrated perspective of teaching science from grade 9 through grade 12. It also provides active learning of science concepts through various inquiry activities. Following the learning theories that have produced both the National Science Education Standards and the New Jersey Core Curriculum Content Standards for science, it will utilize projects, cases, and problems in real-world settings, using a diversity of instructional methods and strategies to provide each student with the opportunity to learn how to teach inquiry and problem-solving across the sciences. It has a thirty-hour field component. Limited to Education majors. Prerequisites: Education 369 and a minimum GPA of 2.75. Corequisite: Education 370N. Course Type(s): EX

ED 370N Cr. 0.0
Methods of Teaching Science for the Secondary Teacher Part II
NCATE Assessment
Corequisite: Education 370. Course Type(s): none

ED 371 Cr. 3.0
Teaching Social Studies at the Secondary Level Part I
Introduces the middle and secondary-level teacher certification candidate to social studies curriculum and methods. Course content will emphasize national and state standards for social studies education curriculum across the traditional social science disciplines. Prerequisites: Education 319 or Educational Leadership 327 and a minimum GPA of 2.75. Corequisite: Education 371N. Course Type(s): EX

ED 371N Cr. 0.0
Teaching Social Studies at the Secondary Level Part I
NCATE Assessment
Corequisite: Education 371. Course Type(s): none
**ED 372**  
*Cr. 3.0  
*Teaching Social Studies at the Secondary Level Part II  
Expands and further develops competencies. Instructional methodologies focusing on a constructivist, student-centered approach will be explored. Targets strategies for future secondary teachers to meet the New Jersey Core Curriculum Content Standards for Social Studies to include: infusing Economics and Geography into the curriculum, developing greater technology coalescence, extending cross-curriculum lesson plans, embracing a pluralistic approach, and expanding multicultural themes. Fosters the development of effective inquiry-based curriculum activities making active use of community-based resources. Limited to Education majors.  
Prerequisites: Education 371 and a minimum GPA of 2.75.  
Corequisite: Education 372N.  
Course Type(s): EX

**ED 372N**  
*Cr. 0.0  
*Teaching Social Studies at the Secondary Level Part II  
NCATE Assessment  
Corequisite: Education 372.  
Course Type(s): none

**ED 374**  
*Cr. 3.0  
*Issues and Practices in World Language Education Part II  
Issues and practices in world language curriculum and instruction. Fieldwork required. Designed to expand future world language teachers’ understanding of the complexities of the content-based instruction in curriculum design and strengthen their competencies with a focus on standard-based language instruction that addresses the national and state standards. Issues related to decision-making, classroom management, assessment and reporting systems, student diversity, and role of community will be explored. The experiential component of the course provides the students with opportunities for hands-on experiences for deepening understanding and strengthening competencies. Limited to Education majors.  
Prerequisites: Education 319, Education or Foreign Languages 427, and a minimum GPA of 2.75.  
Corequisite: Education 374N.  
Course Type(s): EX

**ED 374N**  
*Cr. 0.0  
*Issues and Practices in World Language Education Part II  
NCATE Assessment

**ED 375**  
*Cr. 3.0  
*Integrated Secondary Teaching Methods Part I  
As a component of the teacher-education program, the intention is to introduce the future secondary teachers the fundamental concepts of curriculum design and instructional planning. It focuses on a constructivist approach to instructional planning and practices. Topics related to decision-making, classroom management, and instructional planning are treated in depth to help prospective teachers master the basic competencies at the level of planning to fulfill the requirement for state and national certification. The experiential component of the course provides the students with opportunities for hands-on experiences for deepening understanding and strengthening competencies. Limited to Education majors.  
Prerequisites: Education 319 and a minimum GPA of 2.75.  
Corequisite: Education 375N.  
Course Type(s): EX

**ED 375N**  
*Cr. 0.0  
*Integrated Secondary Teaching Methods Part I  
NCATE Assessment  
Corequisite: Education 375.  
Course Type(s): none

**ED 376**  
*Cr. 3.0  
*Integrated Secondary Teaching Methods Part II  
Deepens future secondary school teachers’ understanding of the complexities of the curriculum and builds their competencies at the level of instructional implementation in specific subject areas (i.e., science, math, language arts, social studies, world languages, arts). Focuses on a broad spectrum of instructional methodologies and techniques that are workable in today’s classrooms and that address the needs of diverse learners. A constructivist approach to planning and instruction will be emphasized. Provides students with opportunities for hands-on experiences for deepening understanding and strengthening competencies. Limited to Education majors.  
Prerequisites: Education 375 and a minimum GPA of 2.75.  
Corequisite: Education 376N.  
Course Type(s): EX

**ED 376N**  
*Cr. 0.0  
*Integrated Secondary Teaching Methods Part II  
NCATE Assessment  
Corequisite: Education 376.  
Course Type(s): none
ED 377  Cr. 3.0
Integrated K-12 Teaching Methods
Deepens future K-12 school teachers’ understanding of the complexities of the curriculum and builds their competencies at the level of instructional implementation in specific subject areas (i.e., music, arts, and world languages, etc.). Focuses on a broad spectrum of instructional methodologies and techniques that are workable in today’s classrooms and which address the needs of diverse learners. A constructivist approach to planning and instruction will be emphasized. The experiential component of the course provides the students with opportunities for hands-on experience for deepening understanding and strengthening competencies.
Prerequisites: Education 319, 320 and a minimum GPA of 2.75.
Corequisite: Education 377N.
Course Type(s): none

ED 377N  Cr. 0.0
Integrated K-12 Teaching Methods
NCATE Assessment
Corequisite: Education 377.
Course Type(s): none

ED 378  Cr. 3.0
Methods of Teaching Health K-12
Focuses on the planning, development, and teaching of health education in K-12 school settings. Emphasis will be placed on using recent data and contextual information to design instruction that focuses on the importance of exercise, family and community, school and work environments, and diet to promoting and maintaining good health throughout life for students with diverse needs and from diverse backgrounds. Field experience is required.
Prerequisite: Education 320.
Corequisite: Education ED 378N.
Course Type(s): none

ED 378N  Cr. 0.0
Methods of Teaching Health K-12
NCATE Assessment
Corequisite: Education 378.
Course Type(s): none

ED 379  Cr. 3.0
Methods of Teaching Physical Education K-12
Designed to present current methods and techniques of teaching physical education to students in grades K-12. Particular attention will be on new techniques for adjusting tasks for a wide variety of children’s interests, abilities, and learning styles, and ensuring safe use of equipment in physical education. As well, lifetime sports and activities for students with diverse needs and from diverse backgrounds will be highlighted. Field experience is required.
Prerequisite: Education 320.
Course Type(s): none

ED 379N  Cr. 0.0
Methods of Teaching Physical Education, K-12
NCATE Assessment
Corequisite: Education 379.
Course Type(s): none

ED 380  Cr. 3.0
Middle Level Learning and Teaching
The candidate will examine aspects of middle-level schooling that are responsive to the nature and needs of adolescents. The candidate will apply knowledge of adolescents’ cognitive and affective development to design learning environments and to structure and implement learning experiences that effectively promote academic achievement and personal growth for all middle-grade students.
Prerequisites: Education 250, 320, and a minimum GPA of 2.75.
Corequisite: Education 380N.
Course Type(s): EX

ED 380N  Cr. 0.0
Middle Level Learning and Teaching
NCATE Assessment
Corequisite: Education 380.
Course Type(s): none

ED 398  Cr. 1.0 - 3.0
Special Topics in Education (300 Level)
An intensive study of a particular subject or problem in education to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisites: As announced in the course schedule and a minimum GPA of 2.75.
Course Type(s): none

ED 416  Cr. 8.0
Student Teaching
Full-time school assignment under the daily supervision of a cooperating teacher. In addition, the supervisor from Monmouth University observes, evaluates, and confers with the student teacher a minimum of six times. Campus seminar(s) required. Applications for student teaching must be submitted by the end of the first semester of the junior year (or completion of 80 credits). Limited to
Education majors.
Prerequisites: Passing the appropriate state required teacher examinations, Senior standing, approval of the department, and a minimum GPA of 2.75.
Course Type(s): EX

ED 416S Cr. 1.0
Student Teaching Seminar
A one-credit seminar to be taken in conjunction with student teaching.
Course Type(s): none

ED 417 Cr. 8.0
Supervised Student Teaching
Designed for full-time teachers; on-the-job experiences are used to plan and evaluate teaching strategies and materials, develop teaching skills based on a knowledge of sound learning theory, and develop a teaching model or personal philosophy of teaching. The University supervisor observes, evaluates, and confers with the in-service teacher a minimum of six times each semester. Campus seminar(s) required. Limited to Education majors.
Prerequisites: Completion of all required and elective education courses and a minimum GPA of 2.75.
Course Type(s): EX

ED 417S Cr. 1.0
Supervised Student Teaching Seminar
A one-credit seminar to be taken in conjunction with supervised student teaching.
Course Type(s): none

ED 427 Cr. 3.0
The Teaching of World Languages
Curriculum development in foreign languages at the elementary and secondary level; the study and application of teaching methods and materials. Also listed as Foreign Languages 427.
Course Type(s): none

ED 427 Cr. 3.0
The Teaching of World Languages
Curriculum development in foreign languages at the elementary and secondary level; the study and application of teaching methods and materials. Also listed as Foreign Languages 427.
Course Type(s): none

ED 498 Cr. 1.0 - 3.0
Special Topics in Education (400 Level)
An intensive study of a particular subject or problem in education to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisites: As announced in the course schedule and a minimum GPA of 2.75.
Course Type(s): none

ED 499 Cr. 1.0 - 3.0
Independent Study in Education
Independent research in education in an area not substantially treated in a regular course offering under the supervision of an Education faculty member; written evaluation of the research is required. For students with superior ability.
Prerequisite: Prior permission of the directing professor and department chair. Application must be filed before registration.
Course Type(s): none

EDUCATION - EDUCATIONAL LEADERSHIP

EDL 201 Cr. 3.0
Educational Psychology
Focus is on the application of research and theories from the field of psychology to the practice of teaching.
Focuses on how theoretical and empirical knowledge about human development, cognition, and learning can be applied to schools and other educational settings. Not open to students who have passed Education 201 or Psychology 201.
Course Type(s): none

EDL 206 Cr. 3.0
Child and Adolescent Development
An introduction to the field of human development.
Concepts and theories of child and adolescent growth and development will be covered from the prenatal period through adolescence. Not open to Psychology majors.
Prerequisites: Educational Leadership 201 and a minimum GPA of 2.75.
Course Type(s): none

EDL 280 Cr. 3.0
Introduction to Early Childhood Education
Examines the historical, philosophical, and theoretical foundations of early-childhood education. Covers major aspects of the physical, socio-emotional, and cognitive development of young children from birth to eight years of age. Addresses major theories and concepts of child development, early childhood ethics and professionalism, developmentally appropriate practice, diverse early childhood curriculum and programs, inclusion, and home-school partnerships. Limited to Education majors.
Prerequisite: A minimum GPA of 2.75.
Course Type(s): none
EDL 325 Cr. 3.0
Language and Early Literacy Development, Birth Through Kindergarten
Focuses on language development and early literacy of regular, special education, and young learners from diverse backgrounds, birth to kindergarten, which involves a field experience. The content includes the study of the theories and acquisition of language development and sound awareness, the interrelated nature of language development and literacy, the appropriate development and assessment of language and early literacy, methods for engaging and motivating all young learners, and strategies for involving families and community members. Course Type(s): none

EDL 326 Cr. 3.0
Literacy Instruction in K-5 Educational Settings I
Focuses on the literacy development of regular and special education children, including those from diverse backgrounds in grades K-5. Ongoing assessment and instructional strategies will be explored in various engaging, literate, educational settings. Prerequisites: Education 250 and a minimum GPA of 2.75. Corequisite: Educational Leadership 326N. Course Type(s): none

EDL 326N Cr. 0.0
Literacy Instruction in K-5 Educational Settings I
NCATE Assessment
Corequisite: EDL 326. Course Type(s): none

EDL 327 Cr. 3.0
Literacy Instruction in K-5 Educational Settings II
Focuses on the literacy development of regular and special education children, including those from diverse backgrounds in grades K-5. Ongoing assessment and instructional strategies for integrating literacy in the content areas will be explored in various, engaging, educational settings. Prerequisites: English 101 and 102 or permission of the instructor, and a minimum GPA of 2.75. Corequisite: Educational Leadership 327N. Course Type(s): WT

EDL 327N Cr. 0.0
Literacy Instruction in K-5 Educational Settings II
NCATE Assessment
Corequisite: Educational Leadership EDL 327. Course Type(s): none

EDL 333 Cr. 3.0
Family Partnerships in Early Childhood Settings
Covers the history and significance of family and community involvement in early childhood education: an overview of perspectives regarding family diversity, parent-professional partnerships and communication, early intervention and special education services, and the legal and ethical rights of diverse contemporary families of young children. Contextual factors, social, cultural, racial, exceptionality, and environment, known to impact learning, will be addressed with an approach to develop the skills and knowledge needed for teachers to create positive working relationships with families and communities. Limited to Education majors. Prerequisites: English 101 and 102 or permission of the instructor, and a minimum GPA of 2.75. Course Type(s): WT

EDL 363 Cr. 4.0
Early Childhood Curriculum and Methods
Examines basic principles and current research on early-childhood curricula. The focus of the course is on designing an integrated, developmentally appropriate curriculum in order to strengthen all aspects of children’s development, including cognitive, language, social, emotional, and physical capabilities. Discusses the appropriate teaching methods that meet children’s individual, developmental, and cultural needs and the importance of observation and authentic assessment in curriculum planning. Also addresses the use of creative play to support children’s learning and development in early-childhood settings. Limited to Education majors only. Prerequisite: A minimum GPA of 2.75. Course Type(s): none

EDL 398 Cr. 3.0
Special Topics in Educational Leadership
An intensive study of a particular subject or problem in education to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis. Prerequisites: As announced in the course schedule and a minimum GPA of 2.75. Course Type(s): none

EDL 499 Cr. 3.0
Independent Study in Educational Leadership
Independent research in education in an area not substantially treated in a regular course offering under the supervision of an Education faculty member; written evaluation of the research is required. For students with superior ability.
Prerequisite: Prior permission of the directing professor and department chair. Application must be filed before registration.

Course Type(s): none

EDUCATION - SPECIAL EDUCATION

EDS 330 Cr. 3.0
*Human Exceptionalities*
Philosophical, historical, and legal foundations of special education. The Council for Exceptional Children (CEC) Code of Ethics, the Professional Practice Standards for Teachers of Exceptional Learners, and the New Jersey Professional Teaching Standards are studied. Exploration of the similarities and differences among the cognitive, physical, cultural, social, and emotional needs of individuals with disabilities. Examination of the educational implications of characteristics of various exceptionalities. Educational implications for learners from diverse cultures and second-language learners will also be addressed. An overview of continuum of service delivery models will be explored with implications to various learners.
Prerequisites: English 101 and 102 or permission of the instructor, and a minimum GPA of 2.75.

Course Type(s): WT

EDS 332 Cr. 3.0
*Family/ School/ Community Partnerships and Resources, P-12*
Focus on the legal and historical perspectives of family involvement in special education. Family systems theory and parent-professional partnerships in decision making are included for all learners, P-12. Identifying appropriate community resources for persons with and without disabilities and their families and strategies for transition and career planning are addressed.
Prerequisite: A minimum GPA of 2.75.

Course Type(s): none

EDS 336 Cr. 3.0
*Classroom Management*
The study and application of various theories of behavior management for students with and without disabilities. Practical application of theories for classrooms are included. Addressing social competence skills and facilitating positive interpersonal relationships in classrooms are discussed. Field experience required.
Prerequisites: Special Education 330 and a minimum GPA of 2.75.

Course Type(s): none

EDS 338 Cr. 3.0
*Assessment Approaches, P-12*
An introduction to the use of assessment in making decisions about instructional grouping, exceptionality, eligibility, and educational programming. Students will learn about ethical standards for professional practice and standardized and teacher-developed assessment procedures. Practice is provided in using assessment data to make decisions about placement in a curriculum, pupil progress, appropriate long-term goals and short-term instructional objectives, and selection of instructional strategies. Both formal and informal assessment strategies are included.
Prerequisites: Special Education 330 and a minimum GPA of 2.75.

Course Type(s): none

EDS 342 Cr. 3.0
*Instructional Methods and Materials for Middle/ Secondary Students with Mild/ Moderate Disabilities*
Study and application of curriculum, methods, materials, classroom organization, and management for secondary students with mild/moderate disabilities. Field experience required.
Prerequisites: Special Education 330, 336, 338, and a minimum GPA of 2.75.

Course Type(s): none

EDS 350 Cr. 3.0
*Individualizing Curricula and Systematic Instruction for Special Education*
The development and application of research-based, effective teaching techniques, necessary adaptations, and supports to meet the learning needs of exceptional students, prescriptive models for intervention, and ways of observing, recording, and responding to behaviors. Field experience required.
Prerequisites: Special Education 330, 332, and 338, and a minimum GPA of 2.75.

Course Type(s): none

EDS 352 Cr. 3.0
*Curricula, Methods and Materials for Learners with Difficulties*
The development of educational programs and applications of curricula, methods, and materials appropriate for the strengths and needs of all students with disabilities and/or difficulties in special education and inclusive settings. Focus on identifying and creating adaptations to support students with difficulty learning in classrooms.
Field experience required.  
Prerequisites: Special Education 330, 336, and 338, and a minimum GPA of 2.75.  
Course Type(s): none

**EDS 398**  
**Cr. 1.0 - 3.0**  
*Special Topics in Special Education*  
An intensive study of a particular subject or problem in education to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.  
Prerequisite: As announced in the course schedule and a minimum GPA of 2.75.  
Course Type(s): none

**EDS 499**  
**Cr. 3.0**  
*Independent Study in Special Education*  
Independent research in education in an area not substantially treated in a regular course offering under the supervision of an Education faculty member; written evaluation of the research is required. For students with superior ability.  
Prerequisite: Prior permission of the directing professor and department chair. Application must be filed before registration.  
Course Type(s): none

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**ENGLISH**

**EN 100**  
**Cr. 3.0**  
*Writing Workshop*  
Development of skills useful for essay writing; opportunity to write in other forms; and projects to fit individual student needs. Offered in summer only; restricted to EOF students.  
Course Type(s): none

**EN 101**  
**Cr. 3.0**  
*College Composition I*  
A college-level writing course designed to prepare students to make the transition from high school to college by familiarizing them with the standards for academic writing they will encounter throughout their educational and professional careers. Students will gain intense experience in writing academic prose that demonstrates knowledge, understanding, analysis, and application of ideas from a variety of progressively sophisticated and interrelated texts.  
Course Type(s): none

**EN 102**  
**Cr. 3.0**  
*College Composition II*  
Reinforces and expands the reading and writing activities taught in English 101 (academic writing demonstrating knowledge, understanding, analysis, and application of ideas). In addition to sustaining what has already been learned in other writing courses, EN 102 focuses on the academic research essay as a fundamental written form needed across the disciplines.  
Prerequisite: English 101.  
Course Type(s): none
EN 212 Cr. 3.0
Literature of Oppression
Selected works of the eighteenth, nineteenth, and twentieth centuries are covered, with attention to representations of oppression as displayed in slavery, colonialism, imperialism, and post-colonial responses.
Prerequisites: English 101 and 102.
Course Type(s): LIT

EN 213 Cr. 3.0
Tragedy and the Tragic
Explores the nature of literary tragedy by having students consider the conventions of both classical and Shakespearean tragedy and decide whether literary narratives that are merely sad - particularly those in contemporary times and from genres other than drama - may similarly be termed tragedy.
Prerequisites: English 101 and 102.
Course Type(s): LIT

EN 214 Cr. 3.0
The Irish: Home and Abroad
A comparison of the Irish epic, The Tain to The Odyssey and exploration of the literature and culture of Ireland and the Irish diaspora, which may include writers of Irish descent from Canada, the US, Australia, South America, and other parts of the world.
Prerequisites: English 101 and 102.
Course Type(s): LIT

EN 215 Cr. 3.0
Vampire Literature: Bite Me
Literature about vampires starting with nineteenth-century European texts and moving into the twentieth and twenty-first centuries in the Americas. These texts involve themes of vampirism representative to cultural, ethical, and political issues for their times.
Prerequisites: English 101 and 102.
Course Type(s): LIT

EN 216 Cr. 3.0
Literary Studies for English Majors
An introduction to literary studies. Close study of representative texts in fiction, poetry, drama, the essay, and literary theory and criticism; writing of analytical essays, integrating close reading of text with theoretical critical approaches.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): WT

EN 227 Cr. 3.0
Foundations of British Literature
A British and Irish literature survey from the Middle Ages through the late eighteenth century, emphasizing close analysis of texts and fundamental approaches to critical writing.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): WT

EN 228 Cr. 3.0
Foundations of American Literature
An American literature survey from the Colonial period to the Civil War, emphasizing fundamental critical terms and concepts and the use of writing to explore relationships between literature and criticism.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): WT

EN 229 Cr. 3.0
Non-European Literature in English
Survey of national literature from the non-western, non-European world. Literary analysis and class reading of selected prose, poetry and dramatic literature.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): CC, WT

EN 251 Cr. 3.0
Creative Writing: Introduction
Students analyze in a workshop setting readings in two or more genres of literature (poetry, fiction, drama, non-fiction) to observe techniques in craft, and present their own creative writings for intensive examination by workshop participants.
Prerequisites: English 101 and 102.
Course Type(s): none

EN 252 Cr. 3.0
Creative Writing: Fiction
Short-story writing with critiques.
Prerequisite: English 251 or permission of the instructor.
Course Type(s): ENCWU

EN 253 Cr. 3.0
Creative Writing: Poetry
Experiment with a variety of verse forms and techniques for the purpose of developing creativity and deepening the appreciation of poetry.
EN 254 Cr. 3.0
Creative Writing: Drama
The writing of one-act plays; development of comic and
dramatic techniques.
Prerequisite: English 251 or permission of the instructor.
Course Type(s): ENCWU

EN 255 Cr. 3.0
Creative Writing: Non-Fiction
Development of advanced writing skills to explore a vari-
ety of personal essay forms, such as the memoir, travel
writing, and the lyric essay.
Prerequisite: English 251 or permission of the instructor.
Course Type(s): ENCWU

EN 271 Cr. 3.0
Professional Writing
An advanced writing workshop introducing the rhetorical
principles and writing practices necessary for producing
appropriate workplace writing; emphasis on a wide range
of audiences, genres, ethical issues and contexts that
professional writers commonly encounter.
Prerequisites: English 101 and 102.
Course Type(s): none

EN 282H Cr. 3.0
Theatre of Protest
Analysis of five plays from various periods in western cul-
ture to determine how playwrights used the theatre to
protest conditions in their societies.
Prerequisites: English 101 and 102.
Course Type(s): HO

EN 298 Cr. 1.0 - 3.0
Special Topics in English (200 Level)
An intensive study of a particular subject or problem in
English to be announced prior to registration. The course
may be conducted on either a lecture-discussion or a
seminar basis.
Prerequisites: English 101 and 102.
Course Type(s): none

EN 299 Cr. 3.0
Independent Study for the Minor in Writing
For the Writing Minor, development of a major writing
project under the guidance of a faculty member.
Prerequisites: English 101 and 102.
Course Type(s): none

EN 305 Cr. 3.0
Shakespeare I
Shakespeare's life and times, his poetry, his dramatic tech-
nique, and the conventions of the Elizabethan stage, with
emphasis on the early comedies, histories, and tragedies.
Prerequisites: English 101, 102 and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 306 Cr. 3.0
Shakespeare II
Shakespeare's life and times, his poetry, his dramatic tech-
nique, and the conventions of the Elizabethan Stage, with
emphasis on the early comedies, histories, and tragedies.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 307 Cr. 3.0
Middle English Literature
Arthurian legends, dream visions, and the beginnings of
English drama, from the twelfth through fifteenth cen-
turies, in translation or in Middle English.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 309 Cr. 3.0
Renaissance in England
Poetry, prose, and drama from the reign of Elizabeth I
through the Protectorate, excluding Shakespeare. Authors
may include: Spenser, Marlowe, Webster, Sidney, Bacon,
Donne, Milton, and Marvell.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 310 Cr. 3.0
Restoration and Augustan Literature
Survey of British poetry, prose and drama from the
Restoration to the late eighteenth century, with special
attention to genre and the development of the novel.
Authors may include: Behn, Defoe, Swift, Pope,
Johnson, Burney, Gray, Leapor, Austen, and Cowper.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 312 Cr. 3.0
British Romantic Literature
The romantic involvement with self, including major poets
Appendix A: Course Descriptions

and prose writers from Blake through Shelley.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 315  Cr. 3.0
British Victorian Literature
The post-romantic literature of crisis among the
Victorians. Authors may include: Carlyle, Tennyson, the
Brontes, and Browning.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 316  Cr. 3.0
Modern British and Irish Literature
British and Irish writers from the 1890’s through the
Second World War, including W.B. Yeats, James Joyce,
Virginia Woolf, and Stevie Smith.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 318  Cr. 3.0
Contemporary British and Irish Literature
British and Irish writers since the Second World War, including
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 324  Cr. 3.0
Literature of Colonial America
Major genres, texts, and narratives of the early Americas,
from exploration and conquest to colonization. May
include the following writers: Native American narrative
and poetry, Cabeza de Vaca, John Smith, Mary
Rowlandson, William Bradford, Anne Bradstreet,
Jonathan Edwards, Edward Taylor, Benjamin Franklin,
William Byred, and Sarah Kemble Knight.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 327  Cr. 3.0
Mid-Nineteenth Century American Literature
Literature of the United States from the rise of transcen-
dentalism to the Civil War. Authors may include: Poe,
Emerson, Thoreau, Whitman, Stowe, Douglass, Melville,
and Hawthorne.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 329  Cr. 3.0
American Realism
American literature from 1870 to 1910, emphasizing
developments in realistic fiction and poetry.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 331  Cr. 3.0
Twentieth Century African American Literature
An overview of African American poetry, drama, fiction
and non-fiction in the context of the Harlem Renaissance,
the Civil Rights movement, the African American feminist
movement, and the new African American Renaissance,
while considering the contemporary events and literary
movements that affected the writers. Authors include
McKay, Hurston, Hughes, Baldwin, Morrison, Walker,
Angelou, Wilson.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 332  Cr. 3.0
Modern American Literature
American writers from World War I to World War II,
including Willa Cather, William Faulkner, Robert Frost,
and Richard Wright.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 334  Cr. 3.0
Contemporary American Literature
American writers from World War II to the present, includ-
ing Arthur Miller, James Baldwin, John Updike, and
Elizabeth Bishop.
Prerequisites: English 101, 102, and three credits from
courses with a course type of LIT.
Course Type(s): none

EN 341  Cr. 3.0
Twentieth Century South Asian Literature
Examines twentieth-century fiction, poetry, and essays by
writers from India, Pakistan, Bangladesh, and Sri Lanka
to consider the style and form they use to comment upon
issues of nationalism, identity, anti-imperial sentiment,
and modernization.
Prerequisites: English 101, 102, and three credits from courses with a course type of LIT.
Course Type(s): CC

EN 352 Cr. 3.0
Craft of Writing
An in-depth study of the creative writing process, either single - or multi genre. Students may develop a craft workbook that focuses on both traditional and contemporary literary forms and strategies. Students write by assignment and develop techniques of reviewing in order to compare and contrast major authors' aesthetics with their own creative gestures. A final portfolio may consist of approximately thirty pages of revised fiction, nonfiction, or drama, or approximately fifteen pages of revised poetry, or twenty to twenty-five pages, revised, of some combination of genres agreed upon between the student and the professor. The collection should be titled and given a cohesive arrangement.
Prerequisite: English 251, or permission of the instructor.
Course Type(s): ENCWU

EN 384 Cr. 1.0 - 3.0
Tutoring ESL
Students will tutor non-native members of the greater community in basic literacy (speaking, listening and reading). Students will be responsible for lesson implementation and evaluation. This course does not qualify as a 300+ English elective.
Course Type(s): EX

EN 388 Cr. 3.0
Cooperative Education: English
Integration and application of knowledge gained in the academic setting with career-related or community experiences. Work in an external setting, meeting at least three times in the semester with a faculty sponsor from the English department to establish reasonable goals and expectations for the experience, to determine progress at or near the mid-term and to make the final presentation-oral and written-for evaluation. This course may be repeated for credit.
Prerequisites: Completion of all required 100 and 200-level English courses and at least two English electives at the 200-level or higher; permission of department chair may also be required.
Course Type(s): EX

EN 398 Cr. 1.0 - 3.0
Special Topics in English (300 Level)
An intensive study of a particular subject or problem in English to be announced prior to registration.
Prerequisite: Three credits from courses with a course type of LIT, or permission of the instructor.
Course Type(s): none

EN 399 Cr. 1.0 - 3.0
Independent Study in English
Reading and research on a selected topic under the direction of an English department faculty member. Instructor’s consent required.
Course Type(s): none

EN 405 Cr. 3.0
Chaucer
Selections from the Canterbury Tales, Troilus and Criseyde, and short poems in Middle English.
Prerequisites: English 101, 102, three credits from courses with a course type of LIT and two courses from English 226 - 229, or written permission of the instructor.
Course Type(s): none

EN 415 Cr. 3.0
New Jersey Literature
An advanced survey of New Jersey literary history from the Colonial period to the present.
Prerequisites: English 101, 102, three credits from courses with a course type of LIT and two courses from English 226 - 229, or written permission of the instructor.
Course Type(s): none

EN 416 Cr. 3.0
Secret Gardens: Classic Children’s Literature
English-language children’s literature, focusing on Golden Age illustrated narratives by authors such as Nesbit, Burnett, Milne, and Grahame, but also including poetry and earlier prose fiction by Carroll and Alcott.
Prerequisites: English 101, 102, three credits from courses with a course type of LIT and two courses from English 226 - 229.
Course Type(s): none

EN 417 Cr. 3.0
Writing World War II In Britain
Major poems and prose of World War II Britain that treat the Battle of Britain, the Blitz, the Holocaust, and the North Africa campaign.
Prerequisites: English 101, 102, three credits from cours-
EN 421 **African Diaspora Literatures**
The study of the twentieth century literatures of Worldwide African Diaspora. Primary texts will be drawn from different genres-prose, poetry and drama and will represent the different shores and locations of African Diasporas Worldwide.
Prerequisites: English 101, 102, three credits from courses with a course type of LIT and two courses from English 226-229, or written permission of the instructor.
Course Type(s): none

EN 424 **Postmodern Literature**
Explores the works of key figures in postmodern American and/or British literature and includes a study of theoretical structures and cultural changes that help define literary postmodernism.
Prerequisites: English 101, 102, three credits from courses with a course type of LIT and two courses from English 226-229, or written permission of the instructor.
Course Type(s): none

EN 425 **Postcolonial Literature**
Selected, literary representations of colonial and postcolonial discourses in literature, theory, and criticism. Focus on creative representation from African nations, Caribbean, and the Indian Subcontinent.
Prerequisites: English 101, 102, three credits from courses with a course type of LIT and two courses from English 226-229, or written permission of the instructor.
Course Type(s): none

EN 426 **The Short Story in English**
Development of the short story genre in English from the eighteenth century to the present, including critical readings.
Prerequisites: English 101, 102, three credits from courses with a course type of LIT and two courses from English 226-229; or written permission of the instructor.
Course Type(s): none
tics: morphology, syntax, semantics, phonology, and prag-

The development of the English language from its Indo-

Students analyze in a workshop-setting longer works

Instruction in theories of expressive and expository writing

Can be repeated for credit. Limited to Education or Special Education majors only.
Prerequisites: English 101, 102, three credits from courses with a course type of LIT, and two courses from EN 226 - 229, or written permission of the instructor.
Course Type(s): EX

EN 498

Cannot be taken as an English 300+ elective. Limited to Education or Special Education majors only.
Prerequisites: English 101, 102, three credits from courses with a course type of LIT, and two courses from EN 226 - 229, or written permission of the instructor.
Course Type(s): none

EN 475

Writing and New Media
A study of theories and concepts of writing and rhetoric in digital media with emphasis on the uses of verbal and visual media in digital spaces, such as web sites, blogs, and wikis. Topics examined include authorship, narrative, and multimedia participation, design, and creation.
Prerequisites: English 101, 102, one LIT designated course, and two WT designated courses in any major.
Course Type(s): none

EN 488

Cooperative Education: English
Integration and application of knowledge gained in the academic setting with career-related or community experiences. Work in an external setting, meeting at least three times in the semester with a faculty sponsor from the English department to establish reasonable goals and expectations for the experience, to determine progress at or near the mid-term and to make the final presentation-oral and written-for evaluation. This course may be repeated for credit.
Prerequisites: Completion of all required 100 and 200-level English courses and at least two English electives at the 200-level or higher; permission of department chair may also be required.
Course Type(s): EX

EN 491

Seminar in English
A concentrated study on a single author, a related group of authors, or a single topic or theme, which includes the production of a scholarly paper based on substantial, independent research. This course is repeatable for credit.
Prerequisites: English 101, 102, three credits from courses with a course type of LIT, and two courses from English 226 -229, or written permission of the instructor.
Course Type(s): none

EN 498

Special Topics in English (400 Level)
An intensive study of a particular subject or problem in English to be announced prior to registration.
Prerequisites: English 101, 102, three credits from cours-
es with a course type of LIT, and two courses from English 226-229, or written permission of the instructor.
Course Type(s): none

EN 499 Cr. 1.0 - 3.0
Independent Study in English
Reading and research on a selected topic under the direction of an English Department faculty member.
Prerequisites: English 101, 102, three credits from courses with a course type of LIT and two courses from English 226-229, or written permission of the instructor.
Course Type(s): none

EXPERIENTIAL EDUCATION

EX 287 Cr. 1.0 - 6.0
Service Learning Projects
Introduction to learning through community service. Under faculty supervision, students may work on service projects proposed by external sponsors and agencies. Students will learn about the issues, problems, and techniques associated with projects that address and solve real-world problems, and provide services and benefits to the community.
Prerequisite: Permission of the Experiential Education Director.
Course Type(s): EX

EX 387 Cr. 1.0 - 6.0
Service Learning Projects
Introduction to learning through community service. Under faculty supervision, students may work on service projects proposed by external sponsors and agencies. Students will learn about the issues, problems, and techniques associated with projects that address and solve real-world problems, and provide services and benefits to the community.
Prerequisite: Permission of the Experiential Education Director.
Course Type(s): EX

EX 487 Cr. 1.0 - 6.0
Service Learning Projects
Introduction to learning through community service. Under faculty supervision, students may work on service projects proposed by external sponsors and agencies. Students will learn about the issues, problems, and techniques associated with projects that address and solve real-world problems, and provide services and benefits to the community.

Prerequisite: Permission of the Experiential Education Director.
Course Type(s): EX

FIRST YEAR SEMINAR

FY 101 Cr. 3.0
First Year Seminar
Addresses various topics, in a seminar-style, that are of particular interest to first-year university students, taught by faculty from multiple disciplines. Also addresses sharpening higher-level academic skills, enhancing awareness of ethical issues, and making a successful transition to university life.
For First-Year students only.
Course Type(s): none

FOREIGN LANGUAGES

Arabic

FA 101 Cr. 3.0
Elementary Arabic 1
Elements of language structure through oral and written practice in the classroom, supplemented by work in the language laboratory with emphasis on everyday Arabic and easy Arabic prose.
Course Type(s): CC1

FA 102 Cr. 3.0
Elementary Arabic 2
Elements of language structure through oral and written practice in the classroom, supplemented by work in the language laboratory with emphasis on everyday Arabic and easy Arabic prose.
Prerequisite: Arabic 101 or some knowledge of the language.
Course Type(s): CC1

Chinese

FC 101 Cr. 3.0
Elementary Chinese I
An elementary-level communicative based language course in standard Chinese, which is called Mandarin to distinguish it from regional dialects, with simplified characters, the standard script in China. An introduction to basic Mandarin Chinese grammar, vocabulary, and communicative structures, this course is intended for students with no previous knowledge of Mandarin Chinese. Students partic-
ipate in pair, small group, and whole-class conversation, 
listening, comprehension and writing activities that focus 
on the meaningful and accurate conveying of information. 
Course Type(s): CC1

FC 102  Cr. 3.0
Elementary Chinese II
A continuation of Elementary Chinese I, this course is an 
elementary-level communicative based language course 
standard Chinese, which is called Mandarin, to distin-
guish it from regional dialects with simplified characters, 
the standard script in China. A continuation of the intro-
duction to basic Mandarin Chinese grammar, vocabulary, 
and communicative structures, this course is intended for 
students who have completed Elementary Chinese I or 
have some previous knowledge of Mandarin Chinese. 
Students participate in pair, small group, and whole-class 
conversation, listening, comprehension and writing activi-
ties that focus on the meaningful and accurate conveying 
of information. 
Prerequisite: Elementary Chinese 101. 
Course Type(s): CC1

FC 398  Cr. 3.0
Special Topics in Chinese
Elements of language structure through oral and written 
practice in the classroom, supplemented by work in the 
language laboratory with emphasis on everyday Chinese 
and easy Chinese prose. 
Course Type(s): CC1

Foreign Languages

FO 199  Cr. 1.0 - 3.0
Independent Study in Foreign Language 
Guided readings and research on an area or topic select-
ed in consultation with the instructor. 
Course Type(s): none

FO 298  Cr. 3.0
Special Topics in Foreign Literature 
Reading in English translation of works by foreign 
authors. Topics may center on works by a single author or 
be chosen from a period or genre, and will vary from 
semester to semester. 
Course Type(s): CC1

FO 299  Cr. 1.0 - 3.0
Independent Study in Foreign Language 
Guided readings and research on an area or topic select-
ed in consultation with the instructor. Regular conferences 
with the instructor and written reports. 
Course Type(s): none

FO 311  Cr. 1.0 - 3.0
Independent Readings
Supervised readings in the original language for students 
who wish to do intensive work in their major field; materi-
als are selected in consultation with the student’s advisor 
from the major field, and the student confers regularly 
with an instructor from the language staff. 
Prerequisite: Intermediate proficiency in the language 
(202 or equivalent), and approval of the Foreign 
Language Studies chair, and the department for which the 
student will do the reading. 
Course Type(s): none

FO 312  Cr. 1.0 - 3.0
Independent Readings
Supervised readings in the original language for students 
who wish to do intensive work in their major field; materi-
als are selected in consultation with the student’s advisor 
from the major field, and the student confers regularly 
with an instructor from the language staff. 
Prerequisite: Foreign Language 311. 
Course Type(s): none

FO 398  Cr. 1.0 - 3.0
Special Topics in Foreign Literature 
Students study text in the original language. Course con-
tent will vary from semester to semester. 
Prerequisite: Some knowledge of the language. 
Course Type(s): CC1

FO 399  Cr. 3.0
Independent Study in Foreign Language 
Guided readings and research on an area or topic select-
ed in consultation with the instructor. 
Course Type(s): none

FO 427  Cr. 3.0
The Teaching of World Languages 
Curriculum development in foreign languages at the elemen-
tary and secondary level; the study and application of teach-
ing methods and materials. Also listed as Education 427. 
Course Type(s): none

FO 498  Cr. 3.0
Special Topics in Foreign Languages 
Students study text in the original language at an
Appendix A: Course Descriptions

advanced level. Course content will vary from semester to semester.
Course Type(s): none

**FO 499** Cr. 3.0
Independent Studies in the Teaching of World Languages
Curriculum development in foreign languages at the elementary and secondary level; the study and application of teaching methods and materials.
Course Type(s): none

**FO LIOP** Cr. 0.0
Oral Proficiency Interview
Language Testing International Examination for undergraduate students; requires one hour preparation a week.
Course Type(s): none

**FO OPI** Cr. 0.0
Oral Proficiency Interview for the Spanish Major
This undergraduate oral proficiency interview requires one-hour preparation a week.
Course Type(s): none

French

**FF 101** Cr. 3.0
Elementary French I
An elementary-level, communicative-based language course. Intended for students with no French at all or no more than two years of high school French. Practice in the classroom is supplemented by work in the language laboratory. French 101 and 102 are sequential.
Course Type(s): CC1

**FF 102** Cr. 3.0
Elementary French II
An elementary-level, communicative-based language course. Intended for students with no more than three years of high-school French or students who have completed French 101. French 101 and 102 are sequential.
Prerequisite: French 101.
Course Type(s): CC1

**FF 201** Cr. 3.0
Intermediate French I
An intermediate-level, communicative-based language sequence. A review of French grammar, vocabulary and communicative structures, this course sequence (FF 201-202) emphasizes skill development in speaking, listening comprehension, reading, and writing in French through oral and written practice in the classroom and in the language laboratory. Students will also be introduced to French literature and culture through short literary and non-literary texts. French 201 and 202 are sequential.
Students who register for French 201 must also register for a weekly session of conversation practice in the Foreign Language Resource Center, coordinated by the Department of Foreign Language Studies.
Prerequisite: Four years of high-school French or French 102.
Course Type(s): CC1

**FF 202** Cr. 3.0
Intermediate French II
An intermediate-level, communicative-based language sequence. A review of French grammar, vocabulary and communicative structures, this course sequence (FF 201-202) emphasizes skill development in speaking, listening comprehension, reading, and writing in French through oral and written practice in the classroom and in the language laboratory. Students will also be introduced to French literature and culture through short literary and non-literary texts. French 201 and 202 are sequential.
Students who register for French 202 must also register for a weekly session of conversation practice in the Foreign Language Resource Center, coordinated by the Department of Foreign Language Studies.
Prerequisite: French 201.
Course Type(s): CC1

**FF 301** Cr. 3.0
Survey of French Literature
Survey of French Literature up to 1800.
Course Type(s): CC1

**FF 303** Cr. 3.0
Advanced French Composition and Conversation
Oral and written use of correct, idiomatic French vocabulary building, oral discussion, composition, and instruction in the presentation of material.
Prerequisite: Twelve credits in French.
Course Type(s): CC1

**FF 309** Cr. 3.0
French Culture and Civilization
Political, social, and other developments in France from the Middle Ages to 1800.
Course Type(s): CC1
FF 312  Cr. 1.0 - 3.0
Independent Readings in French
Supervised readings in the original language for students who wish to do intensive work in their major field; materials are selected in consultation with the student's advisor from the major field, and the student confers regularly with an instructor from the language staff.
Course Type(s): none

FF 399  Cr. 3.0
Independent Study in French
Guided readings and research on an area or topic of the French language, culture and/or literature selected in consultation with the instructor. Regular conferences with the instructor and written reports.
Course Type(s): none

FF 499  Cr. 3.0
Independent Study in French
Guided readings and research on an area or topic of the French language, culture and/or literature selected in consultation with the instructor. Regular conferences with the instructor and written reports.
Course Type(s): none

FG 201  Cr. 3.0
Intermediate German I
Review of grammar, vocabulary, and idiomatic expressions; skill development in reading and writing German through exercises in composition and the reading of modern German texts. Students who register for German 201 must also register for a weekly session of conversation practice in the Foreign Language Resource Center, coordinated by the Department of Foreign Language Studies.
Course Type(s): CC1

FG 202  Cr. 3.0
Intermediate German II
Review of grammar, vocabulary, and idiomatic expressions; skill development in reading and writing German through exercises in composition and the reading of modern German texts. Students who register for German 202 must also register for a weekly session of conversation practice in the Foreign Language Resource Center, coordinated by the Department of Foreign Language Studies. Prerequisite: German 101.
Course Type(s): CC1

FG 299  Cr. 3.0
Independent Study in German
Guided readings and research on an area or topic of the German language, culture and/or literature selected in consultation with the instructor. Regular conferences with the instructor and written reports.
Course Type(s): none

FG 499  Cr. 3.0
Independent Study in German
Guided readings and research on an area or topic of the German language, culture and/or literature selected in consultation with the instructor. Regular conferences with the instructor and written reports.
Course Type(s): none

FG LAB  Cr. 0.0
Conversation Practice
Separate lab component from intermediate course(s). Corequisite: German 201 or 202.
Course Type(s): none

German

FG 101  Cr. 3.0
Elementary German I
Elements of language structure through oral and written practice in the classroom, supplemented by work in the language laboratory, with emphasis on everyday German and easy German prose.
Course Type(s): CC1

FG 102  Cr. 3.0
Elementary German II
Elements of language structure through oral and written practice in the classroom, supplemented by work in the language laboratory, with emphasis on everyday German and easy German prose. Prerequisite: German 101.
Course Type(s): CC1

Hebrew

FH 101  Cr. 3.0
Elementary Modern Hebrew I
Elements of language structure through oral and written
practice, supplemented by work in the language labora-
tory, with emphasis on everyday Hebrew.
Course Type(s): CC1

FH 102 Cr. 3.0
Elementary Modern Hebrew II
Elements of language structure through oral and written
practice, supplemented by work in the language laborato-
ry, with emphasis on everyday Hebrew.
Prerequisite: Hebrew 101 or some knowledge of the
language.
Course Type(s): CC1

FH 299 Cr. 1.0 - 3.0
Independent Study Hebrew
Guided readings and research on an area or topic of the
Hebrew language, culture and/or literature selected in
consultation with the instructor. Regular conferences with
the instructor and written reports.
Course Type(s): none

Irish

FIR 101 Cr. 3.0
Elementary Irish I
First semester Irish is an elementary-level communicative
based language course. An introduction to basic Irish
grammar, vocabulary and communicative structures, this
course is intended for students with no previous knowl-
gedge of the Irish language. In order to provide students
opportunities to engage in spontaneous creativity in the
language, students engage with diverse multi-media
learning technologies and will study grammar as a means
to a communicative end.
Course Type(s): CC1

FIR 102 Cr. 3.0
Elementary Irish II
Second semester Irish is an elementary-level communicative
based language course. A continuation of the intro-
duction to basic Irish grammar, vocabulary and commu-
nicative structures, this course is intended for students
with Irish I or the equivalent. In order to provide students
opportunities to engage in spontaneous creativity in the
language, students engage with diverse multi-media
learning technologies and will study grammar as a means
to a communicative end.
Prerequisite: Irish 101.
Course Type(s): CC1

Italian

FI 101 Cr. 3.0
Elementary Italian I
An elementary-level, communicative-based language
course. This course is intended for students with no
Italian at all or no more than two years of high school
Italian. Practice in the classroom is supplemented by
work in the language laboratory. Italian 101 and 102 are
sequential.
Course Type(s): CC1

FI 102 Cr. 3.0
Elementary Italian II
Intended for students with no more than three years of
high-school Italian or students who have completed Italian
101. Italian 101 and 102 are sequential.
Prerequisite: Italian 101.
Course Type(s): CC1

FI 201 Cr. 3.0
Intermediate Italian I
An intermediate-level, communicative-based language
sequence. A review of Italian grammar, vocabulary, and
communicative structures, this course sequence empha-
sizes skill development in speaking, listening comprehen-
sion, reading, and writing in Italian through oral and writ-
ten practice in the classroom and in the language labora-
tory. Students will also be introduced to Italian literature
and culture through short literary and non-literary texts.
Italian 201 and 202 are sequential. Students who register
for Italian 201 must also register for a weekly session of
conversation practice in the Foreign Language Resource
Center, coordinated by the Department of Foreign
Language Studies.
Prerequisite: Four years of high-school Italian or Italian 102.
Course Type(s): CC1

FI 202 Cr. 3.0
Intermediate Italian II
An intermediate-level, communicative-based language
sequence. A review of Italian grammar, vocabulary, and
communicative structures, this course sequence empha-
sizes skill development in speaking, listening comprehen-
sion, reading, and writing in Italian through oral and writ-
ten practice in the classroom and in the language labora-
tory. Students will also be introduced to Italian literature
and culture through short literary and non-literary texts.
Italian 201 and 202 are sequential. Students who register
for Italian 202 must also register for a weekly session of
conversation practice in the Foreign Language Resource
Center, coordinated by the Department of Foreign Language Studies.
Prerequisite: Italian 201.
Course Type(s): CC1

**FI 299** Cr. 1.0 - 3.0  
*Independent Study in Italian*  
Guided readings and research on an area or topic of the Italian language, culture and/or literature selected in consultation with the instructor. Regular conferences with the instructor and written reports.  
Course Type(s): none

**FI 303** Cr. 3.0  
*Advanced Italian: Composition and Conversation I*  
Oral and written use of correct, idiomatic Italian vocabulary building, oral discussion, and instruction in the presentation of material.  
Prerequisite: Twelve credits in Italian.  
Course Type(s): CC1

**FI 304** Cr. 3.0  
*Advanced Italian: Composition and Conversation II*  
Oral and written use of correct, idiomatic Italian vocabulary building, oral discussion, composition, and instruction in the presentation of material.  
Prerequisite: Italian 303.  
Course Type(s): CC1

**FI 399** Cr. 1.0 - 3.0  
*Independent Study in Italian*  
Guided readings and research on an area or topic of the Italian language, culture and/or literature selected in consultation with the instructor. Regular conferences with the instructor and written reports.  
Course Type(s): none

**FI 499** Cr. 3.0  
*Independent Study in Italian*  
Guided readings and research on an area or topic of the Italian language, culture and/or literature selected in consultation with the instructor. Regular conferences with the instructor and written reports.  
Course Type(s): none

**FL 101** Cr. 3.0  
*Elementary Latin I*  
Elements of language structure through oral and written exercises in the classroom, supplemented by work in the language laboratory.  
Course Type(s): CC1

**FL 102** Cr. 3.0  
*Elementary Latin II*  
Elements of language structure through oral and written exercises in the classroom, supplemented by work in the language laboratory.  
Prerequisite: Latin 101.  
Course Type(s): CC1

**FL 199** Cr. 3.0  
*Independent Study in Latin*  
Guided readings and research on an area or topic selected in consultation with the instructor. Regular conferences with the instructor and written reports.  
Prerequisite: Prior permission of the directing professor and department chair.  
Course Type(s): none

**FL 299** Cr. 3.0  
*Independent Study in Latin*  
Guided readings and research on an area or topic selected in consultation with the instructor. Regular conferences with the instructor and written reports.  
Prerequisite: Prior permission of the directing professor and department chair.  
Course Type(s): none
Appendix A: Course Descriptions

Portuguese

FP 103 Cr. 3.0
Elementary Portuguese for Business I
Introduction to the elements of Portuguese language structure through oral and written practice in the classroom, supplemented by work in the language lab with emphasis on both spoken and written Portuguese relating to the business world.
Course Type(s): CC1

FP 104 Cr. 3.0
Elementary Portuguese for Business II
Introduction to the elements of Portuguese language structure through oral and written practice in the classroom, supplemented by work in the language lab, with emphasis on both spoken and written Portuguese relating to the business world.
Prerequisite: Portuguese 103.
Course Type(s): CC1

Spanish

FS 101 Cr. 3.0
Elementary Spanish I
An elementary-level, communicative-based language course, intended for students with no Spanish at all or no more than two years of high-school Spanish. Practice in the classroom is supplemented by work in the language laboratory. Spanish 101 is to be taken before 102.
Course Type(s): CC1

FS 102 Cr. 3.0
Elementary Spanish II
An elementary-level, communicative-based language course, intended for students with no Spanish at all or no more than two years of high-school Spanish. Practice in the classroom is supplemented by work in the language laboratory. Intended for students with no more than three years of high-school Spanish or students who completed Spanish 101.
Prerequisite: Spanish 101.
Course Type(s): CC1

FS 199 Cr. 3.0
Independent Study in Spanish
Guided readings and research on an area or topic selected in consultation with the instructor. Regular conferences with the instructor and written reports.
Prerequisite: Prior permission of the directing professor and department chair.
Course Type(s): none

FS 201 Cr. 3.0
Intermediate Spanish I
An intermediate-level, communicative-based language sequence (Spanish 201-202). A review of Spanish grammar, vocabulary and communicative structures, this course sequence emphasizes skill development in speaking, listening comprehension, reading, and writing in Spanish through oral and written practice in the classroom and in the language laboratory. Students will also be introduced to Hispanic literature and culture through short literary and non-literary texts. Students who register for Spanish 201 must also register for a weekly session of conversation practice in the Foreign Language Resource Center, coordinated by the Department of Foreign Language Studies.
Prerequisite: Four years of high-school Spanish or Spanish 102.
Course Type(s): CC1

FS 202 Cr. 3.0
Intermediate Spanish II
An intermediate-level, communicative-based language sequence. A review of Spanish grammar, vocabulary and communicative structures, this course sequence (Spanish 201-202) emphasizes skill development in speaking, listening comprehension, reading, and writing in Spanish through oral and written practice in the classroom and in the language laboratory. Students will also be introduced to Hispanic literature and culture through short literary and non-literary texts. Students who register for Spanish 202 must also register for a weekly session of conversation practice in the Foreign Language Resource Center, coordinated by the Department of Foreign Language Studies.
Prerequisite: Spanish 201.
Course Type(s): CC1

FS 298 Cr. 3.0
Special Topics in Spanish (200 Level)
Students study text in the original language at an advanced level. Course content will vary from semester to semester.
Course Type(s): CC1

FS 300A Cr. 3.0
Advanced Spanish: Composition and Conversation I
Oral and written use of correct, idiomatic Spanish vocabulary building, oral discussion, composition, instruction in the presentation of material, and complementary laborato-
Students who register for Spanish 300A must also register for a weekly session of conversation practice in the Foreign Language Resource Center, coordinated by the Department of Foreign Languages. Prerequisite: Spanish 202 or five or more years of Advanced Placement credits.

Course Type(s): CC1

**FS 300B**  
**Cr. 3.0**  
*Advanced Spanish: Composition and Conversation II*  
Oral and written use of correct, idiomatic Spanish vocabulary building, oral discussion, composition, instruction in the presentation of material, and complementary laboratory work in preparation for the Oral Proficiency Interview. Students who register for Spanish 300B must also register for a weekly session of conversation practice in the Foreign Language Resource Center, coordinated by the Department of Foreign Languages. Prerequisite: Spanish 202 or five or more years of Spanish or Advanced Placement credits.

Course Type(s): CC1

**FS 301**  
**Cr. 3.0**  
*Introduction to Hispanic Literature*  
Introduction to the four principal genres of Hispanic literature. Fundamentals of literary analysis through a selection of texts from Medieval through contemporary Spanish literature, and colonial through twentieth-century Latin American literature. Prerequisites: Spanish 300A or 318 (if not a native speaker) and Spanish 300B; and English 101 and 102 or permission of the instructor.

Course Type(s): CC1, WT

**FS 305**  
**Cr. 3.0**  
*Survey of Spanish-American Literature*  
Survey of Latin-American literature studying representative works from the Colonial period through the twentieth-century. Genres covered include novel, drama, poetry, essay, and short story. Taught in Spanish. Prerequisites: Spanish 301 or permission of the department chair; and English 101 and 102 or permission of the instructor.

Course Type(s): CC1, WT

**FS 307**  
**Cr. 3.0**  
*Survey of Spanish Literature*  
Survey of Peninsular Spanish literature that focuses on drama, short story, and poetry from the medieval period until the beginning of the eighteenth century. Emphasis will be on the drama of the Renaissance and Baroque periods incorporating playwrights, such as Lope de Vega, Tirso de Molina, and Calderon de la Barca. In addition, poets and writers such as Garcilaso, Fray Luis, Santa Teresa, and Maria de Zayas are included. Taught in Spanish. Prerequisite: Spanish 301 or permission of the department chair.

Course Type(s): CC1

**FS 309**  
**Cr. 3.0**  
*Culture and Civilization Spain*  
Study of the culture and civilization of Spain from pre-historic times to the present day. The first part of the course will present the major historical developments and artistic movements of the Iberian Peninsula with special focus placed upon the plastic arts (painting, architecture, sculpture). The second part of the course will focus on contemporary socio-cultural issues such as the Spanish economy, politics (dictatorship and democracy), society, and cultural life. Taught in Spanish.

Course Type(s): CC1

**FS 310**  
**Cr. 3.0**  
*Culture and Civilization of Latin America*  
The natural aspects and historical evolution of the culture and civilization of Latin American countries. Landmarks in the political, economic, cultural and social history of the continent are traced from the pre-colonial times to the present. Students are introduced to, and familiarized with, the world of Latin American history, life, thought, and feelings. Emphasis is given to aspects of Latin America today such as the new political and economic map in the twenty-first century, women’s impact in politics, LGBT issues, religion, education, science and technology, music, art, and film. Conducted in Spanish.

Prerequisites: English 101 and 102 or permission of the instructor.

Course Type(s): CC1, WT

**FS 311**  
**Cr. 1.0 - 3.0**  
*Independent Readings in Spanish*  
Supervised readings in the original language for students who wish to do intensive work in their major field; materials are selected in consultation with the student’s advisor from the major field, and the student confers regularly with an instructor from the language staff.

Course Type(s): none

**FS 312**  
**Cr. 1.0 - 3.0**  
*Independent Readings in Spanish*  
Supervised readings in the original language for students...
who wish to do intensive work in their major field; materials are selected in consultation with the student’s advisor from the major field, and the student confers regularly with an instructor from the language staff.

Course Type(s): none

FS 313 Cr. 3.0
*Commercial Spanish*
Designed to acquaint the students with the mercantile practice, documents, and terminology needed for the understanding of the business usages of the Spanish-speaking countries.
Prerequisite: Spanish 202 or five or more years of Spanish or Advanced Placement credits.
Course Type(s): CC1

FS 315 Cr. 3.0
*Introduction to Spanish Linguistics*
An introduction to the linguistic analysis of the Spanish language from the point of view of its internal organization and sound system. Intended for Spanish majors and will be conducted entirely in Spanish. Students will be introduced to the morphological study of the language; an introduction to Spanish phonetics in theory and practice will incorporate the history of the Spanish language from Latin to modern Spanish. Discussion of Hispanic dialectology and geolinguistics.
Prerequisite: Four years of high-school Spanish or four semesters of college Spanish.
Course Type(s): CC1

FS 318 Cr. 3.0
*Spanish Pronunciation, Voice and Diction*
An analytical and practical study of contemporary Spanish pronunciation, conducted completely in Spanish. Students are introduced to the phonetics (the study of sounds) and phonology (the study of the sound system) of the Spanish language.
Prerequisites: Spanish 101, 102, 201, 202 or the equivalent as pursuant to the Foreign Language Studies Placement Policy.
Course Type(s): CC1

FS 398 Cr. 3.0
*Special Topics in Spanish*
Students study text in the original language. Course context will vary from semester to semester.
Course Type(s): none

FS 399 Cr. 1.0 - 3.0
*Independent Study in Spanish*
Guided readings and research on an area or topic of the Spanish language, culture, and/or literature selected in consultation with the instructor. Regular conferences with the instructor and written reports.
Course Type(s): none

FS 403 Cr. 3.0
*Spanish Literature of the Eighteenth and Nineteenth Centuries*
Novels, drama, and poetry, with emphasis on the works of Iriarte, Moratin, Espronceda, Zorrilla, Becquer, Galdos, and others.
Course Type(s): CC1

FS 404 Cr. 3.0
*Spanish Literature of the Twentieth Century*
The evolution of Spanish literature from the Generation of 1898 to the present; analysis of the drama, novel, and poetry of the period.
Course Type(s): CC1

FS 405 Cr. 3.0
*The Spanish-American Short Story*
A critical study of the cuento (short story) in Spanish America. Major authors and trends are studied in historical and social contexts. By studying a significant amount of short stories by authors both male and female from different countries, students will become acquainted with the development of this genre in Spanish America and get to know some of the most representative authors of the genre. They will learn to use different critical approaches to analyze their work. Readings will include, among others, works by: Isabel Allende, Mario Benedetti, Jorge Luis Borges, Rosa Maria Britton, Rosario Castellanos, Martha Cerda, Julio Cortazar, Jose Donoso, Rosario Ferre, Renee Ferrer, Gabriel Garcia Marquez, Jose Luis Gonzalez, Angelica Gorodischer, Liliana Heker, Elena Poniatowska, Horacio Quiroga, Juan Rulfo, Luisa Valenzuela, and Bella Clara Ventura. Taught in Spanish.
Prerequisites: Spanish 301 or permission of the instructor; and English 101 and 102 or permission of the instructor.
Course Type(s): CC1, WT

FS 406 Cr. 3.0
*Cervantes*
Analytical readings in Cervantes’ Entremeses, Novelas Ejemplares, and Don Quixote.
Course Type(s): CC1
FS 407 Cr. 3.0
The Spanish-American Novel I
The development of the novel in Spanish-America.
Prerequisites: Two courses in Spanish at the 300-level or higher or permission of the instructor.
Course Type(s): CC1

FS 408 Cr. 3.0
The Spanish-American Novel II
The development of the novel in Spanish-America.
Prerequisites: Two courses in Spanish at the 300-level or higher or permission of the instructor.
Course Type(s): CC1

FS 409 Cr. 3.0
Advanced Spanish: Grammar and Stylistics
Focuses on the study of advanced grammar and style through writing, translation, and oral practice in Spanish. It is intended for majors and for teachers or students intending to teach.
Prerequisites: Spanish 300B and 300A or Spanish 313. (Native Spanish speakers only need to take Spanish 300B with departmental approval).
Course Type(s): CC1

FS 410 Cr. 3.0
Contemporary Spanish-American Women Writers
A survey of the literature written by contemporary Spanish-American women writers. Texts examined will cover the genres of novel, short story, and poetry. Consideration of women's language and discourse, the relations between gender and writing considered within a historical context, and critical and theoretical aspects of gender and writing. Readings will include, among others, works by Claribel Alegria, Isabel Allende, Carmen Boullosa, Rosario Castellanos, Laura Esquivel, Rosario Ferre, Renee Ferrer, Elena Garro, Angelica Gorodischer, Liliana Heker, Silvia Molina, Cristina Peri Rossi, Elena Poniatowska, Laura Restrepo, Marcela Serrano, Rosina Valcarcel, Zoe Valdes, Ana Lydia Vega.
Prerequisites: Two courses in Spanish at the 300-level or higher or permission of the instructor.
Course Type(s): none

FS 411A Cr. 3.0
Writing for the Media in Spanish
Focus on writing for all Spanish media (print and online news, television, radio). Fundamentals of news writing, news editing, online journalism, editorial writing, and feature writing will be studied. The class will be conducted in Spanish.
Prerequisites: Communication 211 and 215.
Corequisites: Spanish 301 and 300B.
Course Type(s): CC1

FS 411B Cr. 3.0
Writing for the Media in Spanish
Conducted in Spanish, focus will be on writing for all Spanish media (print and online news, television, radio). Fundamentals of news writing, news editing, online journalism, editorial writing, and feature writing will be studied.
Prerequisites: Communication 102 and 350.
Corequisites: Spanish 301 and 300B.
Course Type(s): CC1

FS 412 Cr. 3.0
Advanced Business Spanish I
Introduces the terminology and the techniques used in commercial transactions, including interpretation and writing of business materials. Enhances students' ability to function effectively in an increasingly important commercial-language environment, locally in the United States as well as abroad, in any Spanish-speaking country.
Develops students' geographic literacy and cultural understanding of the Spanish-speaking world, as these are central to being able to successfully conduct business in Spanish. Concentrates on vocabulary and linguistic and cultural background needed when dealing with subjects such as goods and services, marketing, finance, foreign market, and import-export.
Prerequisite: Spanish 313.
Course Type(s): none

FS 413 Cr. 3.0
Advanced Business Spanish II
Introduces the terminology and the techniques used in commercial transactions, including interpretation and writing of business materials. Enhances students' ability to function effectively in an increasingly important commercial-language environment, locally in the United States as well as abroad, in any Spanish-speaking country.
Develops students' geographic literacy and cultural understanding of the Spanish-speaking world, as these are central to being able to successfully conduct business in
Appendix A: Course Descriptions

FS 414 Cr. 3.0
Current Issues in Business in the Spanish-Speaking World
Explores various topics and aspects of current business conditions, thought and policy in Spanish-America, Spain and the United States. Intended for students majoring in Spanish and International Business and any Spanish major interested in learning more about current topics in business of the Spanish speaking world.
Prerequisites: Spanish 300B and Spanish 300A or 313. With department approval, native Spanish speakers only need to take Spanish 300B.
Course Type(s): none

FS 415 Cr. 3.0
The Literature and Culture of Post-Franco Spain
An in-depth analysis of the literary and cultural scene in contemporary Spain in light of the after-effects of the Spanish Civil war and subsequent 40-year dictatorship. Will consider particular problems and issues that have arisen in democratic Spain through close readings and discussions of some of the most significant narrative and cinematic texts of the Post-Franco period including relevant literary and cultural criticism. Will be taught completely in Spanish.
Prerequisites: Spanish 300B and 301.
Course Type(s): CC1

FS 416 Cr. 3.0
Medieval and Golden Age of Spanish Literature
An in-depth study of three periods of Spanish Peninsular literature: Medieval, Golden Age, and Baroque. Works include Poema de Mio Cid, La Celestina, La vida de Lazarillo de Tormes and other picaresque novels. The poetry of Gongora and Quevedo will also be studied. Taught in Spanish.
Prerequisites: Spanish 301, 300B, and either Spanish 305 or 307, or permission of the department.
Course Type(s): CC1

FS 455 Cr. 3.0
Latin American Seminar
Interdisciplinary study and research on a topic of contemporary interest.
Prerequisite: Permission of Foreign Language Studies department.
Course Type(s): CC1

FS 499 Cr. 3.0
Independent Study in Spanish
Guided readings and research on an area or topic of the Spanish language, culture and/or literature selected in consultation with the instructor. Regular conferences with the instructor and written reports.
Course Type(s): none

FS LAB Cr. 0.0
Conversation Practice
Separate lab component from intermediate course(s).
Corequisite: Spanish 201 or 202.
Course Type(s): none

GENDER STUDIES

GS 218 Cr. 3.0
Comparative History of the Family
Analyze the history of the family through fiction, monographs, articles, and primary documents. It will explore how the family developed, why it persisted, and the many forms it has taken. Consider how family size and structure, roles, functions, and power dynamics have varied, not only according to historical era, but also along class, ethnic, regional, religious, and national lines. Also listed as Anthropology 218 and History 218.
Course Type(s): GS

GS 220 Cr. 3.0
History of Advertising
Designed to develop a critical understanding of the historical evolution of advertising in the United States, with critical attention to race, class, gender, and sexuality. We will explore the economic, political, and cultural factors that have contributed to the development of advertising, and which have been affected by advertising. Some of the topics to be discussed include: the rise of national advertising; the relation of advertising to consumption; advertising to children; political advertising, the relationship between advertisers and the medium in which they appear (magazines, television, radio, etc.); and broadcast and internet advertising. Also listed as Anthropology 220 and History 220.
Course Type(s): GS, HSUS
GS 225  Cr. 3.0
Introduction to Gender Studies
Examines gender inequalities and the pervasiveness of gender as a way of structuring/organizing social life. Emphasizes how gender as a social structure intersects with other social structures such as race, class, and sexuality to legitimize power and privilege and/or constrain diverse groups of people. Critiques conventional theories of gender and sociology and covers a broad spectrum of topics using feminist and sociological perspectives. Also pays attention to the connection between social structure and human agency - how people’s experiences are both shaped by social forces and shaped through human action. Also listed as Sociology 225.
Course Type(s): CD, GS, SI, SS.SV

GS 252  Cr. 3.0
Race and Ethnicity
Introduces students to the sociological study of race and ethnicity in the United States as interrelated social systems of power that grant a range of material and non-material advantages to different groups of people based on socially constructed definitions of race and ethnicity, particularly as race and ethnicity intersect with a variety of other social structures such as gender and class. Focuses on the historical legacy and current practices of institutionalized racism that have and continue to shape social relations in the U.S. Also listed as Sociology 252. Also listed as Sociology 252.
Course Type(s): CD, GS, SI

GS 305  Cr. 3.0
Women in US History
Surveys women’s historical experience in the U.S. The emphasis of the course will be on how women of different socio-economic backgrounds, races, and ethnic groups have shaped and been affected by US History. Also listed as History 305.
Course Type(s): GS

GS 307  Cr. 3.0
History of Sexuality in America
Explores the social and cultural history of sexuality in the United States. How race, class, and gender have influenced ideas about sexuality, morality, and power. Major topics include: reproduction, gay and lesbian sexualities, sexually transmitted diseases, and sexual representation and censorship. Also listed as History 307.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): CD, GS, HSUS, WT

GS 370  Cr. 3.0
Gender Studies Seminar
An examination of several disciplines from the perspective of sex and gender. Each discipline is reviewed, and sources of bias are identified. Special attention is given to new data and emergent paradigms generated by recent research in Gender Studies and their implications for traditional assumptions.
Prerequisite: Three credits in Gender Studies elective courses.
Course Type(s): GS

GS 377  Cr. 3.0
A Comparative Study of Women in the World
A comparative study of the political, cultural, social, and economic status of women in the United States, Western Europe, Russia, Japan, Israel, and Third World nations. Also listed as Political Science 377.
Prerequisites: Gender Studies 225; and English 101 and 102 or permission of the instructor.
Course Type(s): GS, GU, WT

GS 399  Cr. 3.0
Independent Study in Gender Studies
Guided research of a selected topic under the direction of a member of the Gender Studies faculty.
Prerequisites: Gender Studies 225, six credits in Gender Studies electives, and prior permission of the directing professor.
Course Type(s): none

GEOGRAPHIC INFORMATION SYSTEMS

GIS 250  Cr. 3.0
Introduction to Geographic Information Systems
Provides both the theoretical and methodological background for proficient use of Geographical Information Systems (GIS). A multidisciplinary integration of theories and applications pertinent to both natural and social science research. Lectures and discussions will introduce the conceptual and methodological platform that is necessary to design, implement, and interpret GIS research. Weekly lab exercises will develop problem-solving skills and emphasize common research techniques in GIS. Students will also learn field techniques of spatial data collection. In sum, demonstrates how both GIS tools and a geographic perspective may be applied to a broad range of social and ecological research problems. Not open to students who have successfully completed Geography 150.
Prerequisite: Information Technology 100 or 102.
Course Type(s): MEKP, SS.SV, TL
GIS 350 Cr. 3.0
Spatial Data
Provides an introduction to the collection of various types of spatial data relevant to many GIS applications and basic database management for organization of the data. Students will be introduced to various data-collection techniques through a combination of lectures, discussions, readings, and hands-on experience in the field. Not open to students who have completed GO 250.
Course Type(s): none

GIS 375 Cr. 3.0
Applications in Remote Sensing and Geographic Information Systems (GIS)
Introduction to intermediate and advanced uses of geographic information systems (GIS) for managing and analyzing remotely sensed data. Will be of specific interest to students working with environmental data such as biology, botany, urban planning, and archeology. Prerequisite: Geographic Information Systems 250.
Course Type(s): none

GIS 400 Cr. 3.0
Individualized GIS-Based Research Seminar
Participants in this seminar will, with the instructor’s guidance, 1) plan all aspects of their own discipline-specific research, 2) acquire all of the necessary data, 3) build and populate a spatial database for their data, 4) create a GIS to import, manipulate, and analyze their data, and 5) present their completed project. Not open to students who have successfully completed GO 300. Prerequisite: GIS 250. Course Type(s): none

GIS 470 Cr. 3.0
Internship Seminar in Geographic Information Systems
Provides an internship for students who have taken a course in Geographic Information Systems. Not open to students who have successfully completed Geography 470. Prerequisite: GIS 250.
Course Type(s): EX

GEOGRAPHY

GO 100 Cr. 3.0
People, Places, and Environments: Introduction to Geography
Emphasis on the introductory level, is on cultural, physical, and world-regional geography. Topics include cultural and physical dimensions of the earth and the interrelationships of humans and the environment. Course Type(s): SS.SV, TL

GO 101 Cr. 3.0
Principles of Human Geography
The human environment in which we live; the influence and effect of space, place, location, scale, distance, and movement separately and in their mutual interaction with the cultural, economic, social, and political, urban circumstances of peoples and places. Course Type(s): CD, SS.SV, TL

GO 102 Cr. 3.0
Environmental Geography
Introduces students to the study of location, distribution, and interrelationships of the physical processes that form the environment, and how human activities influence these processes. Topics include: climate, biogeography, biodiversity, sustainability, as well as topography, map reading, and GIS. Course Type(s): MEBP, SS.SV

GO 125 Cr. 3.0
Maps and Mapping
Introduction to the study of maps and cartography from the perspective of the social sciences. Topics will include: map types, the content and structure of maps, map interpretation, the history of mapping, map propaganda, the use of maps in society, and sources of data. Students will use maps and mapping to represent and interpret past and present economic, political, social, and geographic phenomena. Course Type(s): SS.SV

GO 212 Cr. 3.0
Political Geography
The geographical aspects of internal political problems, international relations, and areas of current tension; and the problems of boundaries, sea and air routes, and internal communications of major powers, with emphasis on Europe and the Middle East. Course Type(s): none

GO 220H Cr. 3.0
The City in Film
Through the study of popular images of the city in film, reflect on urban problems and issues, as well as perceptions of the city changing over time. Explores themes in urban studies through the medium of film. The films are
augmented by related readings and serve as a starting point for illumination and critique of the political economy and sociocultural dimensions of cities and urban society.

Course Type(s): HO

GO 231  Cr. 3.0
Urban Sociology
Theoretical analysis of the modern urban community, including the history of the city and analysis of urban institutions and behavior patterns; problems relating to metropolitan and suburban areas, community planning, and urban renewal. Also listed as Sociology 231.
Prerequisite: Sociology 101.
Course Type(s): none

GO 267  Cr. 3.0
Tourism Around the World
Introductory examination of the various factors that impact tourism in different parts of the world. Students will consider political, social, economic, cultural, and environmental factors that affect tourists, local populations, and the physical destinations. Also listed as Anthropology 267.
Course Type(s): CC, GU, SUS

GO 268  Cr. 3.0
Urbanization Around the World
Introduction to urbanization on a global scale. Historical and contemporary development of the world’s cities, using geographical approaches to urban analysis. Includes examination of urban forms and the local global, social, cultural, economic, political, and physical processes that shape and are shaped by cities, and the large and rapidly growing cities of the developing world that dominate and control the global economy. Also listed as Anthropology 268.
Course Type(s): CC, SUS

GO 275  Cr. 3.0
Global Environmental Problems
Focus on the complex relationship between human beings and their environments in an effort to build an ecological perspective in a global framework. Discussion of basic issues of ecological science in terms of impact on both the western and non-western worlds. Also listed as Anthropology 275.
Course Type(s): CC, MEBP, SUS

GO 298  Cr. 1.0 - 3.0
Special Topics in Geography (200 Level)
An intensive study of a particular subject or problem in geography to be announced prior to registration.
Course Type(s): none

GO 399  Cr. 3.0
Independent Study in Geography
Reading and research on a selected topic under the direction of a faculty member.
Course Type(s): none

GO 450  Cr. 3.0
Internship Seminar in Applied Geography
Students gain practical experience in the application of geographical ideas and techniques through an internship and integrative capstone seminar. Only open to students minoring in geography.
Prerequisites: Completion of all other requirements of the minor.
Course Type(s): EX

GO 489  Cr. 3.0
Internship in Geography
Provides an internship for students who have taken one or more courses in geography and wish to gain practical experience in the application of geographical ideas and techniques.
Prerequisite: Geography 101.
Course Type(s): EX

GO 499  Cr. 3.0
Independent Study in Geography
Reading and research on a selected topic under the direction of a faculty member.
Prerequisites: Geography 101 and prior permission of the directing professor and department chair.
Course Type(s): none

GEOLOGY

GL 100  Cr. 3.0
Diamonds, Drilling and Dinosaurs: Introductory Geology
Provides comprehensive coverage of the geosciences which spans from the formation of our universe to understanding the physical processes that affect the New Jersey coastline. The principles of geology and earth science are used to demonstrate to the student that the geosciences are involved in every aspect of their daily lives and to make them aware of the role they play in society both economically and physically.
Course Type(s): none
HEALTH STUDIES

HE 100 Cr. 3.0
Technology and Health Informatics
Designed to provide an introduction to the computer technology used in health care and its impact on decision-making. Includes an overview of the basic computer skills required to process electronic information, the nature and types of health information available on the World Wide Web, the development of search skills associated with finding information, linking electronic information to health decision-making processes, ethical and social issues involving the use of technology, and identifying major issues in computer and Internet security. Also listed as Nursing 100.
Course Type(s): TL

HE 101 Cr. 3.0
Strategies for Healthy Living
Factors influencing personal health; function of body cells and systems; lifestyle choices such as nutrition, exercise, alcohol, drug and tobacco use, sexuality, contraception, and sexually transmitted diseases; the U.S. health care system and those of other countries.
Course Type(s): none

HE 150 Cr. 3.0
Medical Terminology
Introduction of medical terminology to those students who have an interest in a wide variety of health care services. Presents a study of basic medical terms, including prefixes, suffixes, word roots, special endings, plural forms, abbreviations, and has a special emphasis on spelling, definition, usage, and pronunciation for each body system. A programmed learning, word building system will be used to learn word parts that are used to construct and analyze new terms. The accurate use and understanding of medical terminology used in communications between health care professionals, clients, and other providers of care will be enhanced by taking this course.
Course Type(s): HE.EL, HEPE

HE 160 Cr. 3.0
Substance Use and Abuse
Physical, psychological, and sociological aspects of addictive substances; legal and ethical concerns; alternative methods of dealing with stress in young adulthood; socially responsible behavior.
Course Type(s): none

HE 190 Cr. 3.0
Introduction to Health Research
Introduces students to the basic concepts in health sciences research. Students will gain an understanding of the rationale for conducting research, study designs, qualitative and quantitative inquiry, principles of instrumentation and measurement, data management and interpretation, and research proposal writing and presentation techniques. Students should be able to apply these concepts to evaluate research done by others.
Course Type(s): none

HE 198 1.0 - 3.0
Special Topics in Health Studies
An intensive study of a particular subject or problem in health studies to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis. Prerequisite: As announced in the course schedule.
Course Type(s): none

HE 212 Cr. 3.0
Health - A Lifelong Process
Health from conception through senescence using a developmental approach. Examines the factors that influence health at each stage of life, including the effect of environmental, biological, and genetic influences and common deviations from health. Using this approach, the student will investigate the effect of political and economic policies, education, epidemiology, health promotion, and illness prevention programs.
Course Type(s): RD

HE 215 Cr. 3.0
Wellness and Fitness
A comprehensive study of wellness and fitness and will include scientific principles and practical applications of exercise to promote a healthy lifestyle. The health-related fitness components, heart health, stress management, nutrition, weight management, and cancer prevention will be examined. Particular emphasis will be placed on the analysis of personal fitness and wellness status, and will lead to the creation and implementation of a behavior change program. Delivered in a lecture/practical performance format.
Course Type(s): HE.EL, HEPE

HE 225 Cr. 3.0
Mind-Body Connection
Focuses on the psychology of wellness and illness and the healing connections between the mind and body across diverse cultures. How stress is interpreted and expressed in different cultures will be explored. The heal-
ing practices and rituals of different faiths and cultural traditions will be explored.
Course Type(s): CC, HE.EL, NU.EL

HE 235 Cr. 3.0
Human Aging
Designed to provide an understanding of the major health problems, health promotion, and wellness concepts which affect older people. Offers an introduction to the physical and functional changes associated with human aging. Common illnesses which are often identified in older people will be discussed. In addition, factors will be presented which are believed to cause or influence the aging process, changes in physical function and quality of life.
Course Type(s): HE.EL, HEPE

HE 310 Cr. 4.0
Becoming a Home Health Aide
Through classroom lecture, discussions, reading and laboratory practice the student will learn the 76 hour training program designed to meet the NJ requirements for the Certified Homemaker/Home Health Aide (HHA). After completion of this course the student will have the opportunity to sit for the state examination and become certified as a HHA. Once certified, the student will be able to gain employment as a certified HHA in numerous agencies and institutions in New Jersey.
Course Type(s): HE.EL

HE 320 Cr. 3.0
Principles of Health Education
Examination of the principles and practices of health education for adults in the community, including program development and implementation, educational strategies, behavioral objectives, learner characteristics, and institutional assessment. Essential factors for teaching, learning, and motivating clients to make behavioral changes to promote health. Previously listed as Health Studies 420.
Prerequisite: Health Studies 101.
Course Type(s): HEPE, RD

HE 324 Cr. 3.0
Human Sexuality
Designed to provide the student with a factual background as well as an in-depth understanding of his or her own and others’ sexuality and how it affects health. Focuses on developing an understanding of the essential components of human sexuality and its interrelationship with human development. Social, cultural, and developmental determinants will be examined for their influence upon human sexuality. Examines the relationship between human sexuality and professional nursing practice. Content will include: the use of a sexual history in the nursing assessment, sexually transmitted disease, effects of pregnancy and aging on sexuality, effects of medical, surgical, and chronic health problems on an individual’s sexual functioning; and identity. The role of the nurse as an educator/counselor is discussed. Also listed as Nursing 324.
Course Type(s): GS

HE 330 Cr. 3.0
Women’s Health
Health care needs/concerns of women from diverse cultures will be examined. The focus will be on African, Asian, Caribbean, and Latina perspectives of health beliefs, health practices, physical and psychological threats, ethical issues. Body image, sexuality, marriage customs, reproduction, childbirth, parenting, lifestyle choices, menopause, and aging will be examined within the context of culture and contrasted to those of western women. Also listed as Nursing 330.
Course Type(s): CC, CD, GS, HE.EL, HEPE, NU.EL

HE 340 Cr. 3.0
Environmental Health Issues
A comprehensive study of current environmental, occupational health issues and associated health risks. Focus on the practical applications of assessing environmental, quality and occupational safety. Major topics include: population growth, water quality, use of pesticides, air pollution, food quality, and occupational health. Legal and regulatory issues also considered.
Course Type(s): GU, HE.EL, HEPE, MEBP, NU.EL, SUS

HE 360 Cr. 3.0
Transcultural Health
Focuses on African, Asian, Caribbean, South and Latin-American, Middle-East, and Indian beliefs, values and health practices, physical and psychological threats to health, and ethical issues. Differences of cultural beliefs related to health, illness and the impact on the delivery of healthcare will be examined. Also listed as Nursing 360.
Course Type(s): CC, GU, HE.EL, HEPE

HE 365 Cr. 3.0
Wisdom, Wellness and Aging
Provides an understanding of the cross-cultural variations in the status of aging and health in older adults. Examples of various cultures include examining older adults from non-English speaking countries, such as Korea, Iran, Mexico, China, and Brazil. Examines factors
that affect the economic, social, and health care decisions made by the older adults from these diverse populations as well as other nations. Topics to be covered include examinations of health implications on aging populations in non-English speaking countries. Compare countries, such as Japan, India, and Nigeria, to explore how their specific culture influences caregiving, social support networks, and community. Specific cultural views of love, intimacy, and sexuality in older adults will be examined. Also listed as Nursing 365.

Course Type(s): CC, HE.EL, HEPE

HE 370 Cr. 3.0
Alternative/Complementary Health Therapies
Cultural origins of CAM therapies will be discussed. Perspectives of health and healing through co-mingling Eastern Traditional Complementary and Alternative (TCAM) therapies and Western biomedical practices into an integrative strategy will be examined. Appropriate therapies for health promotion and specific illness contexts, potential risks/benefits, ethical issues addressing treatment choices and global entities that employ CAM therapies will be discussed. There will be an emphasis on choosing CAM therapies that are supported by research as safe and effective. Knowledge of reliable sources of information on the Internet will improve decision making regarding therapies. Also listed as Nursing 370.

Course Type(s): CC, GU, HE.EL, HEPE, NU.EL

HE 375 Cr. 3.0
Health in Developing Countries: A Cross-Cultural Perspective
Designed to introduce students to the concept of health as a cross-cultural issue. Students will examine their own health beliefs and practices and expand their understanding of health and health issues of the developing world. Contemporary health issues will be analyzed. Health-care delivery systems in selected countries in Asia and Africa will be examined and compared to the American health care system. Students are expected to problem solve and postulate solutions to contemporary and emerging health issues. Also listed as Nursing 375.

Course Type(s): CC, GU, HE.EL, HEPE, NU.EL, SUS

HE 380 Cr. 3.0
Nutrition and Health
An introduction to the physiology of nutrition, basic concepts of normal nutrition and nutrition in chronic disease (such as diabetes mellitus, and cardiovascular disease and obesity) will be explored. A study of the basic nutrients and the gastrointestinal system in its role of digestion, absorption, and metabolism. Food needs of an individual throughout life (birth to old age) will be considered along with necessary dietary modifications caused by decreased activity. Food fads and fallacies will be discussed, as will factors to consider in choosing a healthy diet. Current concerns, such as how safe are the additives in our foods; the role of sugar, salt, and highly processed foods; and alternative therapies, such as herbal remedies and phytochemicals and their potential roles in modern nutrition will be studied. Weight management will be addressed as it relates to medical-nutrition therapy. Also listed as Nursing 380.

Course Type(s): NU.EL

HE 385 Cr. 3.0
American Health Care Delivery System
Examination of the main components of the American health care system and its effects upon the persons served. Organizational structure, financing mechanisms, governmental policy, and delivery of care.

Course Type(s): none

HE 398 Cr. 1.0 - 3.0
Special Topics in Health Education (300 Level)
An intensive study of a particular subject or problem in health education to be announced prior to registration. Prerequisite: As announced in the course schedule.

Course Type(s): HE.EL, HEPE

HE 399 Cr. 1.0 - 3.0
Independent Study in Health
Guided research and in-depth study of an area of health of particular interest to the student.

Course Type(s): HE.EL, HEPE

HE 430 Cr. 3.0
Health Advocacy
Focus is on personal and peer health advocacy. Being healthy involves making decisions that are right for each individual and being part of a community that promotes healthy behaviors. Advocating for individual health requires that the student has the confidence, basic understanding of advocacy, resources, and skills to make proper health decisions. Foster student health advocacy as skills are taught while students grapple with personal and social questions that affect their overall health and the health of others. Put student health promotion into the hands of the students. They will be required to create a health initiative. These initiatives will foster a healthier Monmouth University community.

Prerequisites: Health 101, 160, 212, 225 and 320.
Corequisites: Health 324 and Health 380.
Course Type(s): HEPE

HE 435 Cr. 3.0  
**Promoting Health in Communities**
Healthcare of groups and communities; this includes community and public health theories, epidemiology, health promotion, illness prevention, research, ethics, vulnerable populations, and common deviations from health. Previously listed as Health Studies 335. Prerequisites: Health 101, 160, 212, 225, and 320; and English 101 and 102 or permission of the instructor. Corequisites: Health 324 and 380. 
Course Type(s): WT

HE 440 Cr. 3.0  
**Health Policy**
Delves into the core elements that define health policy. Describes factors, such as the healthcare delivery systems (public/non-profits vs. private/for profits), access to care, healthcare financing, quality of care issues, and social issues, such as gender and culture, and their impact on health and healthcare. The dynamics of the policy-making process at different levels (federal, state and local) will be explored, along with policy analysis and how policy influences healthcare decisions. The complexities and challenges of healthcare reform will be identified. Prerequisites: Health Studies 101 and 212, English 101 and 102, or permission of the instructor. Corequisites: Health 324 and 380. 
Course Type(s): WT

HE 476 Cr. 3.0  
**Interpersonal Violence**
Examines the various types and patterns of violence related to cultural values, beliefs, biases, and societal issues, as well as the historical perspectives of violence. Course content includes: family, community, youth, and workplace violence; child, domestic, elder, and sexual abuse. Theories concerning gender violence, gangs, bias and hate crimes, and terrorism are challenged. Public health and health care issues related to violence, and primary, secondary, and tertiary-level interventions for victims and offenders of violence are discussed. Individual responsibilities associated with identification and reporting violence are identified. Health care measures to identify and prevent violence are analyzed. Methods of treatment for victims and perpetrators of violence are evaluated. Course Type(s): HE.EL, HEPE

HE 485 Cr. 3.0  
**Senior Seminar in Health**
Provides students with the experiential education requirement for the B.S. in Health Studies. Students will have a placement in a health setting where they will have the opportunity to work with a health professional and to apply what they have learned in class to the experiential setting. Weekly seminars will be designed to allow the students to share their experiences with their peers. Prerequisites: Health Studies 101, 160, 212, 225, 320, 324, and 380. Corequisites: Health Studies 430, 435, and 440. 
Course Type(s): EX, HEPE

HE 498 Cr. 3.0  
**Special Topics in Health**
An intensive study of a particular subject or problem in health education to be announced prior to registration. Course Type(s): HE.EL, HEPE

HE 499 Cr. 1.0 - 3.0  
**Independent Study in Health Studies**
Guided research and in-depth study of an area of health studies of particular interest to the student. Course Type(s): HE.EL, HEPE

HISTORY

HS 101 Cr. 3.0  
**Western Civilization in World Perspective I**
An introduction to the major historical developments in the history of western society and its intellectual tradition. Secondarily, it is also an introduction to the uses of history itself. Our survey will consider ancient Greece and Rome, Medieval Europe, the Renaissance, the Reformation, and the rise of nation-states in Europe. To understand the history of the west in a larger context, we will examine it in relation to the history of the Middle East, particularly at points of contact such as the Crusades. Course Type(s): HS.SV

HS 102 Cr. 3.0  
**Western Civilization in World Perspective II**
A readings-based introduction to Western history, from the seventeenth century to the present, in the perspective of a major non-western civilization. Topics include the Enlightenment, the Industrial Revolution, the Great Depression, the World Wars, the Cold War, and Globalization. Course Type(s): HS.SV
Appendix A: Course Descriptions

HS 103 Cr. 3.0
US History I
The development of the multi-ethnic American nation. Colonial origins, the Revolution, the Age of Jackson, slavery, the Civil War, and Reconstruction.
Course Type(s): none

HS 104 Cr. 3.0
US History II
The development of the multi-ethnic American nation. The emergence of modern industrial America, domestic reform and civil rights, world conflict, and leadership.
Course Type(s): none

HS 198 Cr. 1.0 - 3.0
Special Topics in History (100 Level)
An intensive study of a particular subject or problem in history to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar-basis. Prerequisite: As announced in the course schedule.
Course Type(s): none

HS 203 Cr. 3.0
New Jersey History: A Mirror on America
An introduction to and overview of New Jersey history (1600-1950). Various trends in local history are tied to national developments. Important people, events, and trends in the state history are examined.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): HSUS, WT

HS 209 Cr. 3.0
The History of African-Americans
The study of African-Americans from their first contacts with Europeans through the rise of the Black Power movement in the 1960’s; the status of African-American society and contributions to American culture.
Course Type(s): HSUS

HS 213 Cr. 3.0
Jacksonian Era
The political, social, and economic forces of the Jacksonian era, 1824-1850: the people, parties, and issues; entrepreneurs and workers; reformers and radicals; Manifest Destiny and the Mexican War; and struggles over slavery.
Course Type(s): HSUS

HS 215 Cr. 3.0
The Rise of Modern America, 1877-1933
The response to industrialism and the search for a new order by the farmers, laborers, immigrants, African-Americans, and reformers.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): HSUS, WT

HS 216 Cr. 3.0
Recent American History, 1933-Present
The development of an urban nation and its related problems, emergence of minority groups, welfare capitalism versus welfare statism, and the impact of war and revolution upon domestic programs.
Course Type(s): HSUS

HS 217 Cr. 3.0
Twentieth-Century United States Political History
Survey of twentieth-century American politics, the progressive period, the Republican ascendancy, the New Deal, the Second World War, the Cold War, and post-Cold War period, with special focus on the evolution of liberalism and conservatism, critical campaigns and elections, and the power of the presidency.
Course Type(s): HSUS

HS 218 Cr. 3.0
Comparative History of the Family
Analyze the history of the family through fiction, monographs, articles, and primary documents. It will explore how the family developed, why it persisted, and the many forms it has taken. Consider how family size and structure, roles, functions, and power dynamics have varied, not only according to historical era, but also along class, ethnic, regional, religious, and national lines. Also listed as Anthropology 218 and Gender Studies 218.
Course Type(s): GS

HS 219 Cr. 3.0
United States Military History
Surveys the American experience of war, from the first Native American-European contact through the military interventions at the dawn of the 21st century; examines not only the major conflicts in this period, but also the evolution of strategy, military institutions, civil-military relations, and the American way of war.
Course Type(s): HSUS
HS 220 Cr. 3.0

History of Advertising
Designed to develop a critical understanding of the historical evolution of advertising in the United States, with critical attention to race, class, gender, and sexuality. We will explore the economic, political, and cultural factors that have contributed to the development of advertising, and which have been affected by advertising. Some of the topics to be discussed include: the rise of national advertising; the relation of advertising to consumption; advertising to children; political advertising, the relationship between advertisers and the medium in which they appear (magazines, television, radio, etc.) and broadcast and internet advertising. Also listed as Anthropology 220 and Gender Studies 220.
Course Type(s): GS, HSUS

HS 221 Cr. 3.0

History of Latin America I
Latin-American history from the Indian and European origins to the wars for independence, Indian, and Iberian backgrounds, conquest and colonization, eighteenth-century reforms, and the non-Iberian colonies of the Caribbean.
Course Type(s): CC, HSLA, HSNW, HSPRE

HS 222 Cr. 3.0

History of Latin America II
Latin-American history from the wars for independence, the rise of nationalism, and the Inter-American system and relations.
Course Type(s): CC, HSLA, HSNW

HS 225 Cr. 3.0

Supreme Court Decisions in American History
Analyses American history through United States Supreme Court decisions. Explores how the court developed, grew in strength, and the effect it has had on America’s political and cultural development. It will also consider how the court’s size, structure, and political importance impacted on society according to the historical era being studied.
Course Type(s): HSUS

HS 233 Cr. 3.0

Classical Civilizations
Mediterranean civilizations from the Ancient Near East through Classical Greece and Rome, to the close of the Western Roman Empire.
Course Type(s): HSEU, HSPRE

HS 243 Cr. 3.0

Medieval Europe I (300-1400)
Europe from the decline of Rome through the fourteenth century. Semester I (to 1100): barbarian invasions, rise of the Church, early Medieval culture, Byzantium and Islam, feudalism and manorialism. Semester II: Empire vs. Papacy, the Church at its height, the flowering of Medieval culture.
Course Type(s): HSEU, HSPRE

HS 244 Cr. 3.0

Medieval Europe II (300-1400)
Europe from the decline of Rome through the fourteenth century. Semester I (to 1100): barbarian invasions, rise of the Church, early Medieval culture, Byzantium and Islam, feudalism and manorialism. Semester II: Empire vs. Papacy, the Church at its height, the flowering of Medieval culture.
Course Type(s): HSEU, HSPRE

HS 251 Cr. 3.0

History of the British Isles I
Roman, Anglo-Saxon, and Celtic cultures; consolidation of the Anglo-Norman Feudal Monarchy; the impact of the Reformation and Tudor absolutism; and constitutional crisis and revolution to 1688.
Course Type(s): HSEU, HSPRE

HS 252 Cr. 3.0

History of the British Isles II
Union between England and Scotland, Parliamentary reform, Industrial Revolution, Empire and Commonwealth, Ireland and Home Rule, democracy and the welfare state, and contemporary Britain and Ireland.
Course Type(s): HSEU

HS 253 Cr. 3.0

History of Ireland
Selected themes in Irish history from prehistoric times to the present, including Celtic Christianity, Norman Conquest and Gaelic Recovery, Protestant Ascendancy, Rebellion and Revolution, the Famine and Emigration, Home Rule, the Irish Republic, the Troubles in Northern Ireland and the European Union.
Course Type(s): HSEU

HS 261 Cr. 3.0

History of Russia I
Russia from ancient times to the Nuclear Age. Semester I: the consolidation and decline of the Kievan state, the
Muscovite and Imperial eras, the impact of the West to about 1855.
Course Type(s): CC, GU, HO, HSAS, HSEU, HSNW, HSPRE

HS 262 Cr. 3.0
History of Russia II
Russia from ancient times to the Nuclear Age. Semester II: the reform era, revolutionary movements, the Soviet state, and the evolution and collapse of the communist regime.
Course Type(s): CC, HSAS, HSEU, HSNW

HS 264 Cr. 3.0
North American Indians
Survey of the cultural, social, and linguistic diversity of Pre-Columbian North American societies and problems of contemporary Indian groups. Also listed as Anthropology 264.
Course Type(s): CC, GU, HSPRE, HSUS

HS 266 Cr. 3.0
Historical Archaeology
Provides an introduction to historical archaeology, the archaeology of the modern world (c.1492+). Focuses on archaeological sites in the United States. Students are introduced to the various written and material sources that historical archaeologists use to interpret the recent past, including artifacts, vernacular architecture, grave markers, documents, photographs and other visual sources. Archaeological field methods are also introduced with a minimum of one class period spent excavating an archaeological site. Also listed as Anthropology 266.
Prerequisites: Anthropology 103 or History 103; and English 101 and 102 or permission of the instructor.
Course Type(s): HSPRE, HSUS, WT

HS 270 Cr. 3.0
European Civilizations in the Nineteenth Century
A survey of European politics, industrialization, technology, society, art, science, ideas, and global connections in the nineteenth century, 1815-1914.
Course Type(s): HSEU

HS 271 Cr. 3.0
Europe, 1914-1939
Europe during and after World War I: the consequences of that war, the crisis of European democracy, Communism and the Soviet Union, the rise of Fascism in Italy and National Socialism in Germany, and the failure of collective security.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): GU, HSEU, WT

HS 272 Cr. 3.0
Europe Since 1939
World War II and post-war Europe: the Cold War, European recovery, economic integration, Communism in Eastern Europe, the Soviet Union as a major power, and Europe's changing role.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): GU, HSEU, WT

HS 277 Cr. 3.0
Western Intelligence and Cultural Traditions
A history of ideas, as viewed in philosophy, literature, and art, that have shaped the Western world from the Renaissance to the present; humanism, rationalism, and modern science; the conflict of reason and faith since the seventeenth century.
Prerequisite: Philosophy 101.
Course Type(s): HSEU

HS 283 Cr. 3.0
The Civilizations of Asia (India, China, Japan)
A survey of Asia's great cultural traditions through literature, art, science, religion and institutions, and the interplay of these traditional cultures with Western civilization.
Course Type(s): CC, HSAS, HSNW, HSPRE

HS 288 Cr. 3.0
Cooperative Education: History
Provides students with an opportunity to apply classroom theory in practice through actual work experience. Placements are selected to forward the student's career interest through experiential education. Repeatable for credit.
Prerequisite: Junior or Senior standing.
Course Type(s): EX

HS 290 Cr. 3.0
Popular Culture and the Middle East
Examines recent events, traditional cultural practices, and the perceptions of the Middle East through the lens of popular media (film, graphic novels, journalism, etc.). Topics to be covered may include but are not limited to: religion, the Arab (Spring 2011), the Iranian Revolution, the Arab-Israeli Conflict, women's rights/roles, Orientalism and racism, and common governing structures. Also listed as Anthropology 290.
Course Type(s): GU, HSNW
HS 291 Cr. 3.0

Introduction to Islamic History
Examines the history and development of the Islamic umma (the community of Muslim believers) across time and space. Traces the development of Islam, taking care to understand the environment into which it was first introduced, and follow its development in terms of philosophy and spirituality to the present day. Takes into account variation within the religion as it spread out of the Arabian Peninsula and across the world.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): CC, GU, HSAS, HSEU, HSNW, HSPRE, WT

HS 292 Cr. 3.0

The Middle East and the Rise of the Gunpowder Empires
Examines the history of the Middle East from the 1200s through the end of the 1700s. In the West this era is typically known as the high-water mark for Islamic Civilization, an era marked by a height for Islamic art, architecture, and political organization, this era also marks the time during which Islamic governments held power over the largest swath of territory. To understand this time period students will examine Persian, Ottoman, Egyptian, Indian, and Maghribi/Andalusian history.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): CC, GU, HSAS, HSNW, WT

HS 293 Cr. 3.0

The African Diaspora in the Americas
The dispersion of African people across the world was a seminal event in the history of humankind. African people have profoundly influenced the development of human history from this dispersion. Includes a comprehensive historical overview of the African Diaspora in the Caribbean, Latin America, and North America, from the height of the Atlantic Slave Trade in the eighteenth century to the present.
Course Type(s): GU, HSNW, HSUS

HS 294H Cr. 3.0

Milestones in African History
Examines some milestones in African history. Consideration of issues such as colonialism and African responses, nationalism, politics of independence, promotion of African unity, the new South Africa, the Rwandan genocide, and Africa in contemporary-world politics. Limited to students in the Honors Program.
Course Type(s): CC, HO, HSAF, HSNW

HS 295 Cr. 3.0

History of Africa
Africa in modern times, emphasizing the sub-Saharan part of the continent; traditional African civilizations; European colonization and its impact on Africa; economic, social, and political transformation; and the problems of nation-building.
Course Type(s): CC, HSAF, HSNW

HS 296 Cr. 3.0

Cultures and Societies of Africa
Examines the history, cultures, and societies of Africa from the precolonial to the contemporary period. Discusses the cultural, political, and economic changes that have taken place in Africa as a result of Western influence. Also listed as Anthropology 296.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): CC, HSAF, HSNW, WT

HS 297 Cr. 3.0

History of West Africa
An examination of the history of West Africa from AD 1000 to the present. Special topics include: the sources of West African history, the peoples and empires of West Africa, agriculture and the trans-Saharan trade, the introduction of Islam, the coming of the Europeans, and the post-independent period of West Africa.
Prerequisites: History 101 and 102; and English 101 and 102 or permission of the instructor.
Course Type(s): CC, HSAF, HSNW, HSPRE, WT

HS 298 Cr. 1.0 - 3.0

Special Topics in History (200 Level)
An intensive study of a particular subject or problem in history to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

HS 299 Cr. 1.0 - 3.0

Independent Study in History
Guided study of a selected topic in history not substantially treated in a regular course, under the direction of a member of the History faculty. Extensive reading and at least one written report are required.
Course Type(s): none
Appendix A: Course Descriptions

HS 303 Cr. 3.0
American Colonial and Early National Period
The evolution of the British colonies from their establishment to the American Revolution. The first problems in the development of the new nation to the era of Andrew Jackson.
Course Type(s): HSUS

HS 304 Cr. 3.0
Monuments and Commemoration: Loss and Remembrance
Examines the evolution of American attitudes towards commemoration and remembrance from the colonial period to the present. Focuses on the analysis of landscapes and artifacts, e.g. monuments, grave markers, cemeteries, and historic sites. Topics discussed include the evolution of American burial grounds from colonial burial grounds to the rural cemeteries of the Victorians, and modern memorial parks. Changing grave marker designs and iconography are examined. Distinct ethnic, regional, and national memorial practices are also studied. Public memorials in the form of statuary, commemorative institutions, and historic sites will also be discussed. There will be field trips to select sites. Also listed as Anthropology 304.
Course Type(s): HSUS

HS 305 Cr. 3.0
Women in US History
Surveys women’s historical experience in the US. The emphasis of the course will be on how women of different socio-economic backgrounds, races, and ethnic groups have shaped and been affected by US History. Also listed as Gender Studies 305.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): GS, HSUS, WT

HS 307 Cr. 3.0
History of Sexuality in America
Explores the social and cultural history of sexuality in the United States. How race, class, and gender have influenced ideas about sexuality, morality, and power. Major topics include: reproduction, gay and lesbian sexualities, sexually transmitted diseases, and sexual representation and censorship. Also listed as Gender Studies 307.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): CD, GS, HSUS, WT

HS 308 Cr. 3.0
The American Civil Rights Movement
Includes a historical examination of the major personalities, groups, and organizations central to the development of the American Civil Rights Movement in the 1960’s. Students will be introduced to important scholarship and participant histories crucial to the Movement through an examination of both primary and secondary source material.
Course Type(s): CD, HSUS

HS 309 Cr. 3.0
Readings in African-American Intellectual History
Examines some of the major themes and thinkers in the development of the African-American intellectual tradition from the black abolitionists to the present. Major topics of the course include the formation of black oppositional leadership in the Reconstruction south, Booker T. Washington and racial accommodation, W.E.B. DuBois and integration, along with black nationalism and contemporary, black-feminist theory.
Course Type(s): CD, HSUS

HS 310 Cr. 3.0
Business and Economic Development of the United States
The impact of political and economic decisions on the structure of society: agrarianism, merchant capitalism, laissez-faire industrialism, neomercantilism, and the social welfare state.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): HSUS, WT

HS 311 Cr. 3.0
History Internship Seminar
Application of theory learned in the classroom in practice through actual work experience. Includes both academic and experiential learning. Eight to twelve hours per week in a public history or fieldwork setting. Open only to history majors. Also listed as Anthropology 311.
Course Type(s): EX

HS 313 Cr. 3.0
History of the Book in America
Examines the impact of printed text in America historical development from the colonial era to the present day. It will cover selected topics that will demonstrate that the printed text in all of its various manifestations was shaped by a nascent and evolving American culture and, in turn,
was instrumental in shaping this culture.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): HO, HSUS, WT

HS 315  Cr. 3.0  Field Research in Archaeology
Archaeological field methods, analysis of data, and anthropological interpretation; students will do supervised work on local sites. May be repeated for a maximum of six credits. Also listed as Anthropology 315.
Prerequisites: Anthropology 103 or 107 or permission of the instructor.
Course Type(s): EX, HSUS

HS 316  Cr. 3.0  The Worker in American Life
A survey of the major historical transformations affecting the lives of American working people, from the late eighteenth century to the present, and their social, political, economic, and cultural response to these changes.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): HSUS, WT

HS 318  Cr. 3.0  History of Public Policy
A survey of major issues in domestic public policy. Emphasis on changes in the process of policy formulation in both the public and private sectors from the early nineteenth century to the present.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): HSUS, PO, WT

HS 319  Cr. 3.0  History of the American City
Students study the history of the American city from the colonial era to the present, examining how cultural, economic, geographical, political, and technological factors have influenced urban development and vice versa.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): HSUS, WT

HS 330  Cr. 3.0  The Civil War and Reconstruction
Covers the military, political, and social history of the American Civil War, and the rise, the fall, and the legacies of the postwar Reconstruction.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): HSUS, WT

HS 331  Cr. 3.0  World War II
Considers the military, economic, and political characteristics of the Allied and Axis powers and the strategies they produced; examines the military campaigns, the wartime economies, life on the home fronts, the experience of combat, the dynamics of occupation, and the roles of morality and immorality in the conduct of the war.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): HSEU, HSUS, WT

HS 332  Cr. 3.0  The Cold War
Examines the rivalry between the United States and the Soviet Union that organized global politics for forty-five years; the roles of ideology, economy, and security that fueled it; the diplomacy, propaganda, and armed might used to wage it; and the impact it had on participants’ politics and culture.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): HSEU, HSUS, WT

HS 333  Cr. 3.0  The Vietnam Era
The Vietnam Era, which grew out of America’s longest war, was a major influence on American society at home and abroad. Examines the military and political role the U.S. played in this conflict, its influence on American society, and the living legacy of this turbulent era.
Course Type(s): HSUS

HS 335  Cr. 3.0  A History of the Ancient Near East
A survey of the history and culture of ancient Mesopotamia, Egypt, and their Near Eastern neighbors from the rise of the first literate urban societies through the conquests of Alexander the Great and the Successors. The focus will be on an examination of the preserved material culture, including texts and art and architecture as revealed through archaeology.
Also listed as Anthropology 335.
Course Type(s): HSAS, HSNW, HSPRE
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Course Type(s)</th>
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<tbody>
<tr>
<td>HS 338</td>
<td>3.0</td>
<td>Ancient Art and Ancient History: Greece, Egypt and the Near East</td>
<td>Surveys the culture and history of pre-Classical Greece in the light of its Egyptian and western Asiatic neighbors from the rise of the first literate urban societies through the Persian invasions. It will examine in detail the nature and degree of the dependence of pre-Classical Greek art on the artistic vocabulary of its older eastern neighbors as evidenced by sculpture, architecture and the minor arts. Specific objects will be treated as historical documents by which to understand better these ancient societies and the hierarchy of ideas and beliefs that produced them. Also listed as Anthropology 338.</td>
<td>English 101 and 102 or permission of the instructor.</td>
<td>HSNW, HSPRE</td>
</tr>
<tr>
<td>HS 344</td>
<td>3.0</td>
<td>French Revolution and Napoleon</td>
<td>Study of France and French influence on Europe between 1789 and 1815; the causes and changing aims of the Revolution, the conflict of ideologies, the failure of the First Republic, and the Napoleonic Empire. Prerequisites: English 101 and 102 or permission of the instructor.</td>
<td></td>
<td>HSEU, WT</td>
</tr>
<tr>
<td>HS 351</td>
<td>3.0</td>
<td>Victorian Culture</td>
<td>Victorian England was the first nation to experience the full force of the societal upheaval caused by industrialization. This course will focus on selected aspects of this culture to demonstrate the complexity of the problems faced by Victorians and the ensuing debates in all theaters of life on proposed solutions to these problems. Specific emphasis will be placed on Victorianism, the middle class ethos, which was both product and agent of Victorian culture. Prerequisites: English 101 and 102 or permission of the instructor.</td>
<td></td>
<td>CD, HSEU, WT</td>
</tr>
<tr>
<td>HS 352</td>
<td>3.0</td>
<td>Militant Nationalism</td>
<td>Examines the development militant nationalist groups and the ideologies behind militant nationalism over the course of the twentieth century. Several case studies will be examined including, but not necessarily limited to: the Irish Republican Army (IRA), the National Liberation Front of Algeria (FLN), the Euskadi Ta Askatasuna (ETA), and the Tamil Tigers (LTTE). Course Type(s): HSEU, HSNW</td>
<td>English 101 and 102 or permission of the instructor.</td>
<td>CC, CD, HSLA, HSNW, WT</td>
</tr>
<tr>
<td>HS 357</td>
<td>3.0</td>
<td>Blood &amp; Iron: Germany in the Nineteenth Century</td>
<td>Prussian militarism, legacy of the French Revolution, 1848, Bismarck and Unification, social tensions in the Empire, industrialization, nationalism and racism, and causes of World War I. Prerequisites: English 101 and 102 or permission of the instructor.</td>
<td></td>
<td>HSEU, WT</td>
</tr>
<tr>
<td>HS 358</td>
<td>3.0</td>
<td>Modern Germany, 1914-Present</td>
<td>World War I, Revolution of 1918-19, Weimar Republic, origins of Nazism, the Third Reich, World War II, the Occupation, post-war Germans, and Unification. Prerequisites: English 101 and 102 or permission of the instructor.</td>
<td></td>
<td>HSEU, WT</td>
</tr>
<tr>
<td>HS 359</td>
<td>3.0</td>
<td>The Holocaust</td>
<td>An examination of the Holocaust with special emphasis on the historical background in European political, social, economic, and religious institutions; the implications of the planned extermination of European Jewry for world civilization; and the question of responsibility. Prerequisites: English 101 and 102 or permission of the instructor.</td>
<td></td>
<td>HSEU</td>
</tr>
<tr>
<td>HS 360</td>
<td>3.0</td>
<td>Brazil: History and Culture</td>
<td>Exposes students to the cultural diversity and historical processes that have produced modern Brazil. Focuses on the effects that large-scale socio-economic processes (e.g. colonization, mercantilism, slavery, nation-building, free trade) have had on the lives of everyday people, past and present, paying special attention to issues of race, gender, and material inequality. Examines the livelihoods and belief-systems of Amazonian Indians, African slave communities, urban slum-dwellers, subsistence cultivators, and Japanese immigrants, looking at their contributions to Brazil's history, and studying the national culture that somehow makes them all Brazilians. Also listed as Anthropology 360. Prerequisites: English 101 and 102 or permission of the instructor.</td>
<td></td>
<td>CC, CD, HSLA, HSNW, WT</td>
</tr>
<tr>
<td>HS 367</td>
<td>3.0</td>
<td>Civilizations of the Andes</td>
<td>A survey of the anthropological history of the Andes from the beginning of civilization through the Inca Empire to contemporary Quecha and Aymara speakers. Pre-Inca</td>
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societies, social and political organization of peasant culture, and the role of rural migration in transforming contemporary Andean cities. Also listed as Anthropology 367.
Prerequisite: Three credits in anthropology or sociology; and English 101 and 102 or permission of the instructor.
Course Type(s): CC, GU, HSLA, HSNW, HSPRE, WT

HS 388 Cr. 3.0
Cooperative Education: History
Provides students with an opportunity to apply classroom theory in practice through actual work experience. Placements are selected to forward the student's career interest through experiential education. This course is repeatable for credit.
Prerequisites: History 101, 102 and Junior or Senior standing.
Course Type(s): EX

HS 391 Cr. 3.0
The Modern Middle East
Covers the history of the geographic Middle East, North Africa and some of South and Central Asia (largely the heartland of the Islamic world) from 1798 to the present. Particularly interested in examining the fall of Empires and monarchies and the rise of modern nationalist movements in addition to the rise of religious fundamentalist and socialist movements across the region as well.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): CC, GU, HSNW, WT

HS 392 Cr. 3.0
History of the Arab-Israeli Conflict
Examines the development of the conflict over a region known as Palestine (post-1948; Israel) from the late 1800's to the present. Special emphasis will be placed on themes related to imperialism, nationalism, cultural definition, religion, ethnicity, gender, militancy, and the environment.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): CD, HSAS, HSEU, HSNW, WT

HS 396 Cr. 3.0
Colonial Africa
Examines the process of European colonization of Africa in the second half of the nineteenth century. The main issues include: the scramble for and partition of Africa, African resistance to European imperialism and colonization, colonial political, economic, and social policies, the rise of nationalism, and the process of decolonization.
Course Type(s): CC, HSAF, HSNW
Appendix A: Course Descriptions

HS 436 Cr. 3.0
The Reformation
A study of sixteenth- and early seventeenth-century religious and political developments in Europe; causes of the Reformation, its political and social institutionalization, ideas of reformers, wars of religion, and the Counter-Reformation. Also listed as Religious Studies 436.
Prerequisite: Junior standing or twelve credits in History.
Course Type(s): HSEU, HSPRE

HS 437 Cr. 3.0
Power and Enlightenment: Europe 1648-1789
A study of European history from the Treaty of Westphalia to the French Revolution, emphasizing the contrast between political and military developments, and cultural and intellectual trends. Special emphasis on the development of absolutism in France, Prussia, Austria, Spain, and Russia, the struggle against absolutism in Britain, Sweden, and the Netherlands; the ideals and goals of the European enlightenment, developing social and political tensions, and enlightened despotism.
Course Type(s): HSEU, HSPRE

HS 441 Cr. 3.0
Research Seminar in European History
The development, research, and writing of a research paper in European history, with special emphasis on scrupulous documentation, use of primary sources, clear expository writing, and oral presentation of research results.
Prerequisites: History 103, 104, Senior standing, and eighteen credits of history above History 104.
Course Type(s): RD

HS 453 Cr. 3.0
Tudor - Stuart England
Focus will be on society, politics, and religion in the sixteenth and seventeenth-century England. Major topics for discussion will include the English Reformation, the Age of Elizabeth and Shakespeare, the British Civil Wars, the Restoration, and the Revolution of 1688. Each topic will be discussed with reference to the social and economic changes that helped to mold this period.
Prerequisites: Junior standing or twelve credits in History; and English 101 and 102 or permission of the instructor.
Course Type(s): HSEU, HSPRE, WT

HS 481 Cr. 3.0
Research Seminar in African-Caribbean History
The development, research, and writing of a research paper in African or Caribbean history, with special emphasis on scrupulous documentation, use of primary sources, clear expository writing, and oral presentation of research results.
Prerequisites: History 103, 104, Senior standing, and eighteen credits of History above History 104.
Course Type(s): RD

HS 488 Cr. 3.0
Cooperative Education: History
Provides students with an opportunity to apply classroom theory in practice through actual work experience. Placements are selected to forward the student's career interest through experiential education.
Prerequisite: Junior or Senior standing.
Course Type(s): EX

HS 489 Cr. 3.0
History Internship
Supervised, professional experience in public history programs and institutions (e.g., museums, archives, historical societies, preservation agencies). Emphasis on the development of professional skills in areas such as the care and management of historical collections, public education and outreach programming, collections research and analysis, and grant research and writing. This course is repeatable for credit.
Prerequisites: Junior standing, departmental approval, and placement.
Course Type(s): EX

HS 491 Cr. 3.0
Research Seminar in Middle-East History
The development, research, and writing of a research paper in Middle-Eastern History, with special emphasis on scrupulous documentation, use of primary sources, clear expository writing, and oral presentation of research results.
Prerequisites: History 103, 104, Senior standing, and eighteen credits of history above History 104.
Course Type(s): RD
HS 498 Cr. 1.0 - 3.0
Special Topics in History (400 Level)
An intensive study of a particular subject or problem in history to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

HS 499 Cr. 3.0
Readings and Research in History
Guided study of a selected topic in history not substantially treated in a regular course, under the direction of a member of the History faculty. Extensive reading and at least one written report are required.
Prerequisites: Senior standing; status as a History, History and Political Science, or History and Education major with a 3.00 or higher average in major coursework; and prior permission of directing professor and department chair.
Course Type(s): none

HOMELAND SECURITY

HLS 212 Cr. 3.0
Introduction to Homeland Security
Provides an overview of various threats to domestic security from terrorism, and other related risks and vulnerabilities, examining government policies, risk management, national preparedness, and preventative methods necessary in prevention acts of terrorism.
Effective Fall 2013.
Course Type(s): none

HLS 235 Cr. 3.0
GIS Applications in Homeland Security
Focus on the basic theories in Geographic Information (GIS) and hands-on experience. Practical approach to analyze criminal justice related homeland security data. Students will develop a skill set to map crime data and perform spatial analytical tasks.
Prerequisite: Homeland Security 212. Effective Fall 2013.
Course Type(s): none

HLS 245 Cr. 3.0
Strategic Security Management
Reviews the new business demands on the security professional in a post-September 11 era. Provides an understanding of how to use hard data to drive a security strategy and to measure success of a program. Topics covered will include threat assessment, vulnerability assessment, and risk assessment, highlighting the differences, advantages, and disadvantages of each, as well as establishing effective security programs.
Prerequisite: Homeland Security 212. Effective Fall 2013.
Course Type(s): none

HLS 285 Cr. 3.0
Domestic and International Terrorism
Introduces students to terrorism in the contemporary era, focusing on the post-World War II period as a primary emphasis. Familiarizes students with international and domestic terrorism, concentrating on definitional issues, acts of terrorism and the relationship to culture, religious history, politics, economics and ideology. Other topics will include the media’s role, female terrorists, conventional and unconventional terrorist tactics, and counter-terrorism strategies and laws.
Prerequisite: Homeland Security 212. Effective Fall 2013.
Course Type(s): none

HLS 286 Cr. 3.0
Principles of Emergency Management
Introduces students to the background components and systems involved in the management of disasters and other emergencies. Focusing on the United States, the course will illustrate current practices, strategies and key players involved in emergency management.
Prerequisite: Homeland Security 212. Effective Fall 2013.
Course Type(s): none

HLS 320 Cr. 3.0
Infrastructure Security Issues
Introduces students to the practices of federal, state, local, and private entities to protect the nation from acts of terrorism. Focus will be placed on an understanding of the importance of security towards the nation’s defense and the various methods of protection utilized by organizations working within homeland security. Topics include the history and evolution of security, fundamentals of defense, and specific threats to homeland security.
Prerequisite: Homeland Security 212 or Criminal Justice 212. Effective Fall 2013.
Course Type(s): none

HLS 375 Cr. 3.0
Homeland Security Internship
Practical experience under joint supervision (agency and Monmouth University) at a Homeland Security related agency/facility. This will be accomplished through onsite experience and class discussion and mentoring by professor and agency supervisor.
Prerequisites: English 101 or 102 and permission of the instructor. Effective Fall 2013.
Course Type(s): WT

HLS 385 Cr. 3.0
Cyber Terrorism
Provides students with an in-depth examination of evolving technologies that directly impact the homeland security domain. Information systems technologies are being utilized to make our lives more efficient on a global scale, and have emerged to improve and also threaten our national security. It is the usage of technology, and in particular the global information infrastructure, by which terrorists communicate, coordinate and facilitate their initiatives and ideologies. Students will explore elements of cyber terrorism and emerging technologies that can facilitate and strengthen capability specific national priorities in order to improve national preparedness.
Prerequisite: Homeland Security 212. Effective Fall 2013.
Course Type(s): none

HLS 394 Cr. 3.0
Terrorism: Crisis and Trauma
Explore the psychological impact of terrorism including psychiatric disorders, physiological changes, and social/family disruption. Strategies and techniques for identifying trauma and skill for intervention will be discussed. Effective Fall 2013.
Course Type(s): none

HLS 395 Cr. 3.0
Terrorists Crime Science Investigation
Utilizing modern investigative technology in terroristic crime scenes; specialized evidence collection; role of crime scene manager.
Prerequisite: Homeland Security 212. Effective Fall 2013.
Course Type(s): none

HLS 405 Cr. 3.0
Transportation Threats
Provides an overview of transportation and border security challenges and opportunities in the homeland security era. Explores topics associated with border and transportation security infrastructure, to include: intermodals, seaports, vessels, airports, aircraft, train stations, trains, roadways, bridges, tunnels, vehicles, pipelines, and electronic communications. Explores visionary and technological solutions employed to enhance borders and transportation security. Students will be required to discuss the legal, economic, political, and cultural concerns and impacts associated with border and transportation security.

Prerequisite: Homeland Security 212. Effective Fall 2013.
Course Type(s): none

HLS 410 Cr. 3.0
Intelligence and Threat Analysis
Introduces students to intelligence-gathering and its role in defending our nation from acts of terrorism. To present the importance and techniques of intelligence-gathering as they relate to our government's preparation for and response to acts of terrorism. Describes intelligence within homeland security and how such information is used to analyze and prepare for threats to our nation.
Prerequisite: Homeland Security 212. Effective Fall 2013.
Course Type(s): none

HLS 430 Cr. 3.0
Weapons of Mass Destruction
Focus on the practical and theoretical aspects of preparing for and dealing with incidents involving WMD (Weapons of Mass Destruction). Discussion on the various devices and the means of delivering damage. Analysis of the intelligence approaches to reduce such an event.
Prerequisite: Homeland Security 212. Effective Fall 2013.
Course Type(s): none

HLS 490 Cr. 4.0
Senior Research Project in Homeland Security
Provide the student with an opportunity to complete a senior thesis in the area of Homeland Security. By exploring and analyzing the practical as well as theoretical problems, the student will be able to recommend changes with Homeland Security based upon empirical study.
Prerequisite: Criminal Justice 315. Effective Fall 2013.
Course Type(s): none

HONOR COURSES

HO 101 Cr. 1.0
Cultural Engagement I
Designed to help students develop a life-long engagement with cultural and intellectual discourse. Requires students to attend various on and off campus events (theater, music, dance, art, seminars). The events are enriched through discussion of their meaning and significance and the preparation of written assessments.
Course Type(s): HO
HO 102  Cr. 1.0
*Cultural Engagement II*
Designed to help students develop a life-long engagement with cultural and intellectual discourse. Students are required to attend various on and off campus events (theater, music, dance, art, seminars). The events are enriched through discussion of their meaning and significance and the preparation of written assessments.
Course Type(s): HO

HO 250H  Cr. 3.0
*Honors Seminar in Humanities*
Examination of a topic from the point of view of a specific discipline with a broad perspective across the humanities.
Prerequisites: Honors status and Sophomore standing.
Course Type(s): HO

HO 252H  Cr. 3.0
*Honors Seminar in Mathematics/ Natural Sciences*
Examination of a topic from the point of view of a specific discipline with a broad perspective across the natural sciences and mathematics.
Prerequisites: Honors status and Sophomore standing.
Course Type(s): HO

HO 254H  Cr. 3.0
*Honors Seminar in Social Sciences*
Examination of a topic from the point of view of a specific discipline with a broad perspective across the social sciences.
Prerequisites: Honors status and Sophomore standing.
Course Type(s): HO

HO 498  Cr. 1.0 - 3.0
*Special Topics in Honors*
An intensive study of a particular subject or problem in history to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

HO 498H  Cr. 2.0
*Honors Thesis Proposal*
A proposal for a paper or project to be completed under the direction of a professor in the student's discipline or allied disciplines. The thesis proposal will be defended before a faculty committee. The proposal must be completed with a grade of B or higher to enroll in Honors 499H.
Prerequisites: Senior standing, a minimum GPA of 3.20, and at least twelve credits of honors courses.
Course Type(s): HO

HO 499H  Cr. 2.0
*Senior Honors Thesis*
A paper or project to be completed under the direction of a professor in the student's discipline or allied disciplines. The thesis will be defended before a faculty committee. Students must complete the entire four credits before receiving any grade.
Prerequisites: Senior standing, a minimum GPA of 3.20, completion of Honors 498H with a grade of B or higher, and student's thesis committee approval.
Course Type(s): HO

**HUMANITIES**

HU 201  Cr. 3.0
*Critical Discourse*
An introduction to basic principles of clear thinking and effective argument, combined with small group discourse and collaborative problem solving.
Prerequisite: English 102 or 151H.
Course Type(s): RD

HU 290  Cr. 3.0
*Professional Ethics*
Theoretical ethics and its application to enduring and contemporary moral issues. Examination of principles basic to humane professional practice. Investigation of moral issues as these take shape in a variety of professions, including nursing, education, social work, law, and criminal justice. Attention to the institutional contexts of moral decisions confronting professionals and the social responsibilities of professionals.
Course Type(s): none

HU 298  Cr. 1.0 - 3.0
*Special Topics: Humanities*
Interdisciplinary topics in the humanities or social sciences, covering specialized areas not generally included in regular course offerings. Subject may vary depending upon student and faculty interests.
Prerequisite: As announced in the course schedule.
Course Type(s): none
INFORMATION TECHNOLOGY

IT 100 Cr. 3.0
Information Technology
Introduction to computer-based information management concepts that provide an integrated approach to personal computer software in a Windows environment. These include, word processing, spreadsheet, database, presentation graphics, and electronic communication applications; information retrieval from the Internet and online library resources; fundamental computer literacy; and the ethical and societal implications of computer technology. Hands-on experience with a microcomputer on a networked system is provided. Not open to students who have completed Computer Science 100, 102, or 201, or Information Technology 102.
Course Type(s): TL

IT 102 Cr. 3.0
Information Technology for Scientists
Introduction to computer-based information management that provides an integrated approach to personal computer software in a Windows environment, which includes word processing, spreadsheet, mathematics, database, presentation graphics, Internet and electronic communication applications. Emphasizes scientific applications, technical report preparation and presentation. Hands-on experience with a microcomputer on a networked system is provided.
Course Type(s): TL

IT 150 Cr. 3.0
Information Technology for Business
Introduction to computer-based information business management that provides an integrated approach to personal computer software in a Windows environment. This includes fundamental technology literacy; operating systems, word processing, spreadsheet, database, presentation graphics, and electronic communication applications; computer and network security; troubleshooting; information retrieval from the Internet and on-line library resources; intranet and extranet systems; and the ethical, societal, legal, and economic implications of computer technology. Hands-on experience with a microcomputer on a networked system is provided.
Course Type(s): TL

IT 200 Cr. 3.0
Advanced Information Technology
Advanced concepts and techniques in computer-based information management are provided through an integrated approach to personal computer hardware and software in a Windows environment. These include: hardware and software considerations; societal and ethical considerations; the program development life cycle; creating tables; merging documents and desktop publishing in word processing; creating templates, workbooks with multiple worksheets, and creating a data map in electronic spreadsheets; creating custom reports and an application system using macros in database management; and using embedded visuals in presentation graphics applications. Hands-on experience with a microcomputer on a networked system is provided.
Prerequisite: Information Technology 100 or 102, or Computer Science 102 or Information Technology 150.
Course Type(s): none

IT 250 Cr. 3.0
Internet and Network Technology
Introduction to integrated application software used for authoring and publishing Web sites in a Windows environment. Applications include markup programming and Internet scripting languages used to create Web pages. Network technologies and the fundamental concepts involved in creating a network and in facilitating network operation will also be introduced. Concepts include: protocols, networking media, and architectures. Hands-on experience with a microcomputer on a networked system is provided.
Prerequisite: Information Technology 200 or Computer Science 175 or permission of the Director of Information Technology.
Course Type(s): none

IT 298 Cr. 3.0
Special Topics in Information Technology (200 Level)
Topics of current interest in Information Technology.
Prerequisites: Information Technology 100 and as announced in the course schedule.
Course Type(s): none

IT 300 Cr. 3.0
Windows Applications: Program Design and Implementation
Program development life cycle, core programming concepts, and software design and methodologies used to create Windows applications with Visual Basic. Practical problems are used to illustrate application-building techniques used in a variety of applications, including Windows desktop application and applications targeted for the Internet and Intranets. Topics include designing customized user interfaces, building dialog boxes, adding drag and drop functionality to applications, and creating...
customized database management and reporting applications. Hands-on experience with a microcomputer on a networked system is provided.

Prerequisite: Information Technology 250 or permission of the Director of Information Technology.

Course Type(s): none

IT 398 Cr. 3.0
Special Topics in Information Technology (300 Level)
Topics of current interest in Information Technology.
Prerequisites: Information Technology 100 and as announced in the course schedule.
Course Type(s): none

IT 399 Cr. 3.0
Independent Study in Information Technology
Reading and research on a selected topic under the direction of a faculty member.
Course Type(s): none

IT 405 Cr. 3.0
Advanced Internet Technology
The most current tools and technologies used in professional Web site development are introduced through the case study and lecture approach. Topics include the application of advance scripting languages and software applications for interactive controls, cascading style sheets, dynamic page layout, special effects, document formatting and transformation.
Prerequisites: Information Technology 250 and 300.
Course Type(s): none

IT 450 Cr. 3.0
Information Systems Project Management
The tools and skills of the systems analyst needed in information systems project management are introduced through the case study and experiential approach. Project management software will be used within an integrated-software environment-systems framework; students will complete two information technology projects in web and database design for external clients.
Prerequisite: Information Technology 250 or permission from the IT program director. Corequisite: Information Technology 300.
Course Type(s): EX

IT 498 Cr. 3.0
Special Topics in Information Technology (400 Level)
Topics of current interest in Information Technology.
Prerequisites: Information Technology 100 and as announced in the course schedule.
Course Type(s): none

MARINE SCIENCES

MS 198 Cr. 4.0
Oceanography
Study of the physical and chemical properties of seawater; oceanic circulation; waves and tides; and estuarine and shoreline processes.
Course Type(s): ME

MS 298 Cr. 4.0
Introduction to Marine Biology
The student will be able to identify the environmental parameters of marine habitats and their effect on the distribution of the marine flora and fauna. The student will collect and identify numerous representatives of local marine forms and become proficient in the utilization of the various kinds of equipment necessary to complete these tasks. The student will also gain knowledge regarding marine organism physiology, behavior, and anatomy.
Course Type(s): ME

MS 298A Cr. 4.0
Introduction to Marine Sciences
Oceanography will be explored.
Course Type(s): ME

MS 298C Cr. 1.0 - 4.0
Special Topics in Marine Science
Marine and Environmental Chemistry. The study of the chemical constituents of seawater, their properties and interactions, including their reactions at the air-sea and sea-bottom interfaces. Sampling and analytic techniques.
Course Type(s): ME

MS 498A Cr. 1.0 - 3.0
Special Topics in Marine Sciences
Seashore Ornithology. Brief identifications of birds of the ocean, salt marsh, sand dunes, and adjacent land areas. Includes discussion of habits and ecology.
Course Type(s): ME

MS 498B Cr. 1.0
Special Topics in Marine Sciences
Marine Pollution and Solutions. The identification, monitoring, origin, movement and fate of toxic substances in the marine environment with emphasis on New Jersey’s estuaries and oceanic environments. The impacts of con-
taminants on biota and man will be discussed.
Course Type(s): ME

**MS 498C**  
Cr. 1.0 - 3.0
**Special Topics in Marine Sciences**  
Management of Marine Resources. An overview of the economic, political, legal and social problems related to management of the diversity of legitimate uses of marine resources, including fisheries, mineral and energy resources and waste disposal.
Course Type(s): ME

**MATHEMATICS**

**MA 050**  
Cr. 3.0
**Pre-Algebra Mathematics**  
The language of mathematics, terms and symbols, the real number system, arithmetic operations on real numbers, including exponents and roots, emphasis on fractions and decimals, and evaluation of expressions. Special topics on divisibility, figurate numbers, and introduction to college algebra. Three hours per week, plus mandatory attendance with mathematics lab. This course cannot be used to satisfy graduation requirements.
Course Type(s): none

**MA 100**  
Cr. 3.0
**Quantitative Reasoning and Problem Solving**  
Basic mathematical concepts studied through solving problems in collaborative groups; examination of decision-making and problem-solving techniques and various formats for representing quantitative information. Prerequisite: Mathematics 050, passed with a grade of C- or higher, if required.
Course Type(s): none

**MA 101**  
Cr. 3.0
**College Algebra**  
The axioms and properties of the real number system. Manipulating expressions representing quantities; functions and their representations as rules, graphs or tabulations; linear and polynomial functions; zeros, factoring techniques, and graphical properties of polynomials; the logarithm and exponential; solving systems of equations; sequences and summations; and combinations and permutations. Calculators required for selected topics. This course cannot be used in satisfaction of the general education mathematics requirement. Prerequisite: Mathematics 050, passed with a grade of C- or higher, if required, or three credits of Math.
Course Type(s): none

**MA 103**  
Cr. 3.0
**Foundations of Elementary Mathematics**  
Careful examination of mathematical ideas behind the mathematics taught in grades K-8, and their history and applications to daily life. Intended primarily for future elementary-school teachers to provide them with a better understanding of the mathematics they will teach. This course will also be of value for any student who wants a better understanding of these ideas. Focus on understanding and exploring the mathematics behind computation through problem solving, projects, group explorations, use of manipulatives, and some use of technology. Topics include: number systems, measurement, probability, statistics, and geometry. Not open to freshmen. Prerequisite: Mathematics 050, passed with a grade of C- or higher, if required.
Course Type(s): none

**MA 105**  
Cr. 3.0
**Mathematical Modeling in the Social Sciences**  
Exploration and aspects of algebra, mathematical modeling, and data analysis, which are important in the social sciences. Topics include: an introduction to data, the use of variables, and assorted kinds of graphs to represent data, the concept of function, the problem of fitting functions to data, representing change over time, rates of change, linear functions and linear models, piecewise-linear functions, and an introduction to non-linear functions. Pedagogical methods to be used include: projects using real data, computer explorations, and group work. Prerequisite: Mathematics 050, passed with a grade of C- or higher, if required.
Course Type(s): none

**MA 107**  
Cr. 3.0
**Mathematics in the Arts**  
Study of artistic design in architecture, painting, sculpture, and crafts; math of music. Prerequisite: Mathematics 100 or 101.
Course Type(s): none

**MA 109**  
Cr. 4.0
**Pre-Calculus Mathematics**  
The real number system, algebraic expressions, exponents, radicals, solution of equations, solutions of inequalities, functions, graphing of functions, and trigonometry. Not open to students who have successfully completed Mathematics 125. Prerequisite: Appropriate score on the mathematics placement test and Math 101, passed with a minimum grade of C- or higher.
Course Type(s): none
Appendix A: Course Descriptions

MA 115 Cr. 3.0
Introduction to Mathematics Modeling in the Biological Sciences
Development of an understanding of linear, exponential, logarithmic, and trigonometric functions. Introduction to linear, exponential, logarithmic, and trigonometric models of biological phenomena.
Prerequisite: Mathematics 050, passed with a grade of C- or higher, if required.
Course Type(s): none

MA 116 Cr. 3.0
Calculus for the Biological Sciences
Introduction to calculus, from a primarily graphical perspective, through applications to biological and ecological phenomena. Topics include: differentiation, integration, and differential equations.
Prerequisite: Mathematics 115 or 109, passed with a grade of C- or higher, or placement directly into this course.
Course Type(s): none

MA 117 Cr. 3.0
Quantitative Analysis for Business I
Linear equations and models, systems of linear equations and applications, matrices and techniques for solving systems of equations, linear programming and applications, quadratic functions and models, and exponential and logarithmic models. A computer laboratory component is incorporated. Designed for students majoring in Business Administration; other students by permission of the Mathematics Department.
Prerequisite: Appropriate score on the mathematics placement test or successful completion of Mathematics 101 or 105, passed with a grade of C- or higher.
Course Type(s): none

MA 118 Cr. 3.0
Quantitative Analysis for Business II
Functions, limits, continuity, polynomial calculus, including optimization models, anti-derivatives, area and applications to business models; introduction to probability and statistics as applied to business models.
Prerequisite: Mathematics 117, passed with a grade of C- or higher, or permission of the Department of Mathematics.
Course Type(s): none

MA 120 Cr. 4.0
Introduction to Mathematical Reasoning
Introduction to reasoning, proof, and exposition in mathematics. Topics include: Boolean logic, set theory, counting techniques, functions, mathematical induction, permutations, and the proofs of various elementary theorems.
Prerequisite: Mathematics 101, passed with a grade of C- or higher, or placement level 3.
Course Type(s): none

MA 125 Cr. 4.0
Calculus with Analytic Geometry I
Functions, limits, continuity, and the differential and integral calculus of algebraic, trigonometric, and exponential functions.
Prerequisite: Appropriate score on the mathematics placement test or Mathematics 109, passed with a grade of C- or higher, if required.
Course Type(s): none

MA 126 Cr. 4.0
Calculus with Analytic Geometry II
Functions, limits, continuity, and the differential and integral calculus of algebraic, trigonometric, exponential functions.
Prerequisite: Mathematics 125 passed with a grade of C- or higher.
Course Type(s): none

MA 130 Cr. 3.0
Applied Discrete Mathematics
Introduction to reasoning, proof, and exposition in mathematics. Topics include: Boolean logic, set theory, counting techniques, functions, mathematical induction, permutations, and the proofs of various elementary theorems.
Prerequisite: Mathematics 101, passed with a grade of C- or higher, or placement level 3.
Course Type(s): none

MA 131L Cr. 1.0
Mathematics Laboratory I
Computer laboratory exercises to complement classroom instruction. Emphasis is placed on the use of algorithmic techniques in solving mathematical problems. Students will develop computer programs to successfully implement the algorithms. First in a three-course (one-credit each) computer laboratory experience for mathematics majors. Several projects, such as: traveling salesperson problem, linear and binary search algorithms, Huffman coding, and random walk simulation, Horner's algorithm for evaluating polynomials, and string arithmetic algorithm. Corequisite: Mathematics 120 or 125.
Course Type(s): none
MA 132L Cr. 1.0
Mathematics Laboratory II
Continuation of Mathematics 131L. Possible topics in this second laboratory include: approximation methods for instantaneous rate of change, Newton’s algorithm for estimating roots, calculating Taylor series approximation errors, Euler’s algorithm for numerically solving differential equations, numerical integration algorithms, and Monte Carlo integration.
Prerequisite: Mathematics 131L passed with a grade of C- or higher.
Corequisite: Mathematics 126.
Course Type(s): none

MA 133L Cr. 1.0
Mathematics Laboratory III
Continuation of Mathematics 132L. Possible topics in this third laboratory include: simplex algorithm, finding bases for vector spaces, division algorithm and Euclidean algorithm, Chinese remainder theorem, and estimating stochastic matrices.
Prerequisite: Mathematics 132L passed with a grade of C- or higher.
Corequisite: Mathematics 221.
Course Type(s): none

MA 151 Cr. 3.0
Statistics with Applications
Analysis of data, probability, random variables, normal distribution, sampling theory, confidence intervals, and statistical inference. Not open to computer science majors or to students required to complete Mathematics 125, except software engineering majors.
Prerequisite: Mathematics 101, 105, or 115, passed with a grade of C- or higher, or Mathematics placement exam score at the Mathematics 109 level.
Course Type(s): none

MA 198 Cr. 1.0 - 3.0
Special Topics in Mathematics (100 Level)
An intensive study of a particular subject or problem in mathematics to be announced prior to registration. The course may be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

MA 199 Cr. 3.0
Independent Study in Mathematics
Independent study in a topic not substantially treated in a regular mathematics course; for students with superior ability; weekly consultation required.
Course Type(s): none

MA 203 Cr. 3.0
Foundations of Elementary Mathematics I
Careful examination of mathematical ideas behind the mathematics taught in grades K-6, their history, and applications to daily life. Intended primarily for future elementary-school teachers to provide them with a better understanding of the mathematics they will teach. This course, along with MA 204, Foundations of Elementary Mathematics II, will also be of value for any student who wants a better understanding of these ideas. Focus on understanding and exploring mathematics through problem solving, projects, group explorations, use of manipulatives, and some use of technology. MA 203 concentrates on problem solving, whole number arithmetic and theory, discrete math, integers, fractions, decimals, and algebraic concepts. MA 203 does not count toward the mathematics major or minor requirements.
Prerequisite: Mathematics 050.
Course Type(s): none

MA 204 Cr. 3.0
Foundations of Elementary Mathematics II
Careful examination of mathematical ideas behind the mathematics taught in grades K-6, their history and applications to daily life. Intended primarily for future elementary-school teachers to provide them with a better understanding of the mathematics they will teach. This course, along with MA 203, Foundations of Number Systems I, will also be of value for any student who wants a better understanding of these ideas. Focus on understanding and exploring mathematics through problem solving, projects, group explorations, use of manipulatives, and some use of technology. Topics in MA 204 include: fractions, ratios and percents, data analysis, counting and probability, geometry of shape, measurement, and measurement geometry (perimeter, area, surface area, volume). MA 204 does not count toward the mathematics major or minor requirements.
Prerequisite: Mathematics 203 passed with a grade of C- or higher.
Course Type(s): none

MA 211 Cr. 3.0
Differential Equations
Elementary methods of solution, nth order linear equations, systems of linear equations, Laplace transform methods, numerical solutions, and initial and boundary
MA 219  Cr. 3.0
History of Mathematics
Development of mathematical concepts from primitive counting methods through the invention of calculus, including the history of computers and computing.
Prerequisite: Mathematics 126 passed with a grade of C- or higher.
Course Type(s): none

MA 221  Cr. 3.0
Linear Algebra
Systems of equations, matrix algebra, linear transformations, Eigenvectors, linear programming, and computational methods.
Prerequisites: Mathematics 120 and 125, both passed with a grade of C- or higher; MA-LVL2.
Course Type(s): none

MA 225  Cr. 4.0
Calculus with Analytic Geometry III
Infinite series, partial differentiation, multiple integration, and associated solid analytic geometry.
Prerequisite: Mathematics 126, passed with a grade of C- or higher, MA-LVL1 and MA-LVL2.
Course Type(s): none

MA 237  Cr. 4.0
Programming and Technology in Mathematics
Provides an introduction to the use of technology as it applies to mathematics. A major component of the course will be to build a solid foundation in the skills needed to apply mathematical concepts to programming. In addition, the use of technology in presentations, scholarly searches, and its role and limitations in computer and internet security will be covered. Students will gain an appreciation of the important ethical and social issues involving the use of technology.
Prerequisites: Mathematics 120, 125 and 126, all passed with a grade of C- or higher and successful passing of the Gateway Exam II.
Corequisite: Mathematics 211 or 221 or 225.
Course Type(s): TL

MA 298  Cr. 1.0 - 3.0
Special Topics in Mathematics (200 Level)
An intensive study of a particular subject or problem in mathematics to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

MA 299  Cr. 3.0
Independent Study in Mathematics
Independent study in a topic not substantially treated in a regular mathematics course; for students with superior ability; weekly consultation required.
Course Type(s): none

MA 314  Cr. 3.0
Number Theory
Properties of integers, divisibility, prime numbers, congruence, and Diophantine equations.
Prerequisites: Mathematics 120 and 221, passed with a grade of C- or higher, and placement level 3; and English 101 and 102 or permission of the instructor.
Course Type(s): WT, RD

MA 317  Cr. 3.0
Geometry
Study of Euclid’s axioms, fifth postulate and its substitutes, absolute geometry, projective geometry, constructions, and convexity.
Prerequisites: Mathematics 120, and either Mathematics 221 or 225, passed with a grade of C- or higher; MA-LVL3.
Course Type(s): none

MA 319  Cr. 3.0
Probability and Statistics I
An axiomatic approach to probability and a calculus-based introduction to introductory statistics, including discrete and continuous distributions, expectation and variation covariance and generating functions.
Prerequisite: Mathematics 126 passed with a grade of C- or higher.
Course Type(s): none

MA 320  Cr. 3.0
Probability and Statistics II
A continuation of Mathematics 319, including sample distributions, exploratory data analysis, estimation methods, regression and correlation, as well as applications to quality control.
Appendix A: Course Descriptions

Prerequisite: Mathematics 319, passed with a grade of C- or higher; MA-LVL3.
Course Type(s): none

MA 388 Cr. 3.0
Cooperative Education: Mathematics
Affords the student an opportunity to apply mathematical theory to practical work-related experience. Includes both academic and experiential components. Involves 10 hours per week of work experience. The academic aspect includes a reflective journal and a written report; repeatable for credit.
Prerequisites: Mathematics 211 and 319, passed with a grade of C- or higher, if a Mathematics major; or Mathematics 120 and 126, passed with a grade of C- or higher, if other major; a cumulative GPA of 2.00 and Junior or Senior standing.
Course Type(s): EX

MA 398 Cr. 1.0 - 3.0
Special Topics in Mathematics (300 Level)
An intensive study of a particular subject or problem in mathematics to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis. Prerequisite: As announced in the course schedule.
Course Type(s): none

MA 399 Cr. 3.0
Independent Study in Mathematics
Independent study in a topic not substantially treated in a regular mathematics course; for students with superior ability; weekly consultation required.
Course Type(s): none

MA 410 Cr. 3.0
Modern Algebra
Beginning with the natural numbers, the integers and rational numbers are developed. Complex numbers and roots of unity are followed by groups, rings, and polynomials.
Prerequisites: Mathematics 120, 221, and 314, all passed with a grade of C- or higher.
Course Type(s): none

MA 411 Cr. 3.0
Abstract Algebra
The study of groups, rings, ideals, fields and field extensions, culminating with Solvability and Galois Theory.
Prerequisite: Mathematics 410 passed with a grade of C- or higher.
Course Type(s): none

MA 413 Cr. 3.0
Complex Analysis
Complex numbers and plane, functions, derivatives, line integrals, and Cauchy integral theorem. Cauchy’s formula, series, applications.
Prerequisites: Mathematics 225 and either Mathematics 314 or 317, passed with a grade of C- or higher.
Course Type(s): none

MA 415 Cr. 3.0
Real Analysis
Metric spaces, real number system, limits, functions, continuity, differentiation and integration, and counter-examples.
Prerequisites: Mathematics 225 and either Mathematics 314 or 317, passed with a grade of C- or higher; and English 101 and 102 or permission of the instructor.
Course Type(s): WT

MA 419 Cr. 3.0
Introduction to Mathematical Modeling
Introduction to mathematical modeling, which is a process in which a real-world situation is studied, simplified, and abstracted to the point that mathematical tools can be applied to gain understanding. Introduction to the process, first via a text and mini-projects, then in teams investigating problems from local industries or organizations.
Prerequisites: Junior or Senior standing; Mathematics 211, 221, and 319, passed with a grade of C- or higher and placement level 3; and English 101 and 102 or permission of the instructor.
Course Type(s): EX, WT

MA 421 Cr. 3.0
Applied Multivariate Regression and ANOVA
Provides a working knowledge of multivariate regression and ANOVA methods balanced with the theory underlying these techniques. Intended for students considering a career in statistics, including but not limited to biostatistics, financial mathematics and theoretical statistics.
Topics include: an introduction to experimental design, power and effect size calculations, data screening and transformation to meet assumptions of the analyses, multivariate regression, multinomial logistic regression, multivariate survival analysis, ANOVA/ANCOVA/MANOVA/MANCOVA, and time permitting, an introduction to time series analysis. Extensive use is made of real-world case data from business/finance, health/biology, and education/psychology.
Prerequisite: Mathematics 320.
Course Type(s): none
MA 440 Cr. 3.0
Applied Time Series Analysis
Covers topics related to multiple regression techniques, including testing the assumptions required for each to be valid. This includes applications to yield curve smoothing, pricing, and investment models, and the use of principal component analysis. Also covered are techniques for the analysis and modeling of time series data and forecasting. Prerequisite: Mathematics 421 passed with a grade of C- or higher.
Course Type(s): none

MA 450 Cr. 3.0
Computation and Statistics
Covers topics related to computational statistics, including obtaining large, realistic real-time datasets, calculation and visualization of basic statistical features, regression, empirical distributions, and time-series features. Also covered will be principal components analysis (PCA), analysis of variance (ANOVA), correlation, prediction, and stochastic volatility estimation (GARCH). Portfolio theory will also be covered. Prerequisite: Mathematics 320 passed with a C- or higher.
Course Type(s): none

MA 460 Cr. 3.0
Multivariate Statistics
Provides students with skills in advanced multivariate analysis and its applications. Students will learn the material through projects using data from business, finance, and biology. Topics include MANOVA, discriminant analysis, cluster analysis, multidiomensional scaling, and factor analysis. Topics may also include conjoint analysis, canonical correlation and structural equation modeling. Prerequisite: Mathematics 421 passed with a grade of C- or higher.
Course Type(s): none

MA 488 Cr. 3.0
Cooperative Education: Mathematics
Affords the student an opportunity to apply mathematical theory to practical work-related experience. Includes both academic and experiential components. Involves 10 hours per week of work experience. The academic aspect includes a reflective journal and a written report; repeatable for credit. Prerequisites: Mathematics 211 and 319, passed with a grade of C- or higher, if a mathematics major; or Mathematics 120 and 126, passed with a grade of C- or higher, if another major; a cumulative GPA of 2.00 and Junior or Senior standing.
Course Type(s): EX

MA 498 Cr. 1.0 - 3.0
Special Topics in Mathematics (400 Level)
An intensive study of a particular subject or problem in mathematics to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis. Prerequisite: As announced in the course schedule.
Course Type(s): none

MA 499 Cr. 3.0
Independent Study in Mathematics
Independent study in a topic not substantially treated in a regular mathematics course; for students with superior ability; weekly consultation required. Prerequisite: Prior permission of the directing professor and department chair.
Course Type(s): none

MEDICAL TECHNOLOGY

MT 411 Cr. 16.0
Clinical Internship I
An intensive one-year clinical internship and training at an approved, partner medical institution in the requisite skills for a career in medical technology. Practical experience in tests and procedures of hematology, histology, blood bank, clinical microscopy, clinical chemistry, bacteriology, parasitology, mycology, immunology, serology, radioisotopes, and related subjects. Limited to Medical Technology majors who will have finished all other degree requirements before beginning the clinical internship.
Course Type(s): EX

MT 412 Cr. 16.0
Clinical Internship II
An intensive one-year clinical internship and training at an approved, partner medical institution in the requisite skills for a career in medical technology. Practical experience in tests and procedures of hematology, histology, blood bank, clinical microscopy, clinical chemistry, bacteriology, parasitology, mycology, immunology, serology, radioisotopes, and related subjects. Limited to Medical Technology majors who will have finished all other degree requirements before beginning the clinical internship. Prerequisite: Medical Technology 411.
Course Type(s): EX

MT 421 Cr. 7.5
Clinical Chemistry
An integral part of an intensive, one-year clinical internship and training at Monmouth Medical Center in the requi-
Appendix A: Course Descriptions

uisite skills for a career in medical technology. Practical experience in the tests and procedures of clinical chemistry. Limited to Medical Technology majors.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): EX, WT

MT 422
Hematology
An integral part of an intensive, one-year clinical internship and training at Monmouth Medical Center in the requisite skills for a career in medical technology. Practical experience in the tests and procedures of hematology. Limited to Medical Technology majors. Instructor consent required.
Corequisite: Medical Technology 421.
Course Type(s): none

MT 423
Coagulation
An integral part of an intensive, one-year clinical internship and training at Monmouth Medical Center in the requisite skills for a career in medical technology. Practical experience in the tests and procedures of coagulation. Limited to Medical Technology majors. Instructor consent required.
Course Type(s): none

MT 424
Urinalysis and Body Fluids
An integral part of an intensive, one-year clinical internship and training at Monmouth Medical Center in the requisite skills for a career in medical technology. Practical experience in the tests and procedures of urine and body fluids analysis. Limited to Medical Technology majors. Instructor consent required.
Course Type(s): none

MT 425
Immunology and Serology
An integral part of an intensive, one-year clinical internship and training at Monmouth Medical Center in the requisite skills for a career in medical technology. Practical experience in the tests and procedures of immunology and serology analysis. Limited to Medical Technology majors. Instructor consent required.
Course Type(s): none

MT 426
Transfusion Service
An integral part of an intensive, one-year clinical internship and training at Monmouth Medical Center in the requisite skills for a career in medical technology. Practical experience in the tests and procedures of transfusion service. Limited to Medical Technology majors who will have finished all other degree requirements before beginning the clinical internship. Instructor consent required.
Course Type(s): none

MT 427
Clinical Microbiology
An integral part of an intensive, one-year clinical internship and training at Monmouth Medical Center in the requisite skills for a career in medical technology. Practical experience in the tests and procedures of clinical microbiology in the context of medical technology. Limited to Medical Technology majors. Instructor consent required.
Course Type(s): none

MT 428
Management Principles in Medical Technology
An integral part of an intensive, one-year clinical internship and training at Monmouth Medical Center in the requisite skills for a career in medical technology. Practical experience in management principles in a clinical laboratory setting. Limited to Medical Technology majors. Instructor consent required.
Course Type(s): none

MT 429
Educational Methodologies in Medical Technology
An integral part of an intensive, one-year clinical internship and training at Monmouth Medical Center in the requisite skills for a career in medical technology. Practical experience in education methodology in a clinical laboratory setting. Limited to Medical Technology majors. Instructor consent required.
Course Type(s): none

MONMOUTH MEDICAL

MM 490
Experience in Clinical Medicine
Intensive, practical, first-hand experience in clinical medicine at Monmouth Medical Center. A comprehensive introduction to the skills required to practice medicine: excellent communication, critical reading of the literature, epidemiologic methods (disease patterns in populations),
and understanding medicine as a human experience. The practicum consists of clinical observations, seminars, community service, discussion groups, and a research paper. This course is under the auspices of the Biology department. Limited to Monmouth Medical Center Scholars with Junior standing.
Course Type(s): EX

MUSIC

MU 101 Cr. 3.0
Music Appreciation
Development of insights into historically significant examples of Western vocal and instrumental music.
Course Type(s): EX

MU 140 Cr. 1.0
Applied Music Industry I
Students will be introduced to a variety of skills needed in the music industry. Each student will be required to complete a specific, hands-on project as preparation for a required internship off campus.
Course Type(s): none

MU 145 Cr. 1.0
Band I
Instrumental experience in concert and stage band combinations to improve one’s musicianship; public performances on campus and in the community; two concerts a year. May be taken for as many as eight semesters.
Music and Music and Education majors take Music 145M. All others take Music 145.
Course Type(s): none

MU 145M Cr. 0.0
Band I
Instrumental experience in concert and stage band combinations to improve one’s musicianship; public performances on campus and in the community; two concerts a year. May be taken for as many as eight semesters.
Music and Music and Education majors take Music 145M. All others take Music 145.
Course Type(s): none

MU 146 Cr. 1.0
Band II
Instrumental experience in concert and stage band combinations to improve one’s musicianship; public performances on campus and in the community; two concerts a year. May be taken for as many as eight semesters.
Music and Music and Education majors take MU 146M. All others take MU 146.
Course Type(s): none

MU 146M Cr. 0.0
Band II
Instrumental experience in concert and stage band combinations to improve one’s musicianship; public performances on campus and in the community; two concerts a year. May be taken for as many as eight semesters.
Music and Music and Education majors take Music 146M. All others take Music 146.
Course Type(s): none

MU 147 Cr. 1.0
Chorus I
Training in choral music of various styles, in vocal technique, and in aspects of expressive performance; concert participation required. May be taken for as many as eight semesters. Music and Music and Education majors take Music 147M. All others take Music 147.
Course Type(s): none

MU 147M Cr. 0.0
Chorus I
Training in choral music of various styles, in vocal technique, and in aspects of expressive performance; concert participation required. May be taken for as many as eight semesters.
Music and Music and Education majors, and Theatre Art majors take Music 148M. All others take MU 148.
Course Type(s): none

MU 148 Cr. 1.0
Chorus II
Training in choral music of various styles, in vocal technique, and in aspects of expressive performance; concert participation required. May be taken for as many as eight semesters.
Music and Music and Education majors take Music 148M. All others take Music 148.
Course Type(s): none

MU 148M Cr. 0.0
Chorus II
Training in choral music of various styles, in vocal technique, and in aspects of expressive performance; participation in one concert required. May be taken for as many as eight semesters. Music, Music and Education majors, and Theatre Art majors take Music 148M. All others take MU 148.
Course Type(s): none
MU 150 Cr. 3.0
Introduction to Piano
Group instruction in piano with an emphasis on developing beginning skills in keyboard technique, music reading, harmonization, and performance of repertoire. Designed for students with little or no previous musical experience. Course Type(s): none

MU 151 Cr. 3.0
Group Piano I
Group instruction in piano with an emphasis on music reading, music theory, piano technique, harmonization, improvisation, and performance of repertoire. Designed for music majors and students with some previous musical experience. Course Type(s): none

MU 152 Cr. 3.0
Group Piano II
Group instruction in piano with an emphasis on more advanced music reading, music theory, piano technique, harmonization, improvisation, and performance of repertoire. Designed for students who would like to continue to develop the skills acquired in Music 151. Prerequisite: Music 151. Course Type(s): none

MU 156 Cr. 1.0
Chamber Orchestra
The Monmouth University Chamber Orchestra is a small orchestral ensemble of strings with woodwinds, brass, and percussion that is designed to meet the needs of the Music and Theatre Department and public performances on campus and in the community. May be taken for as many as eight semesters. Music and Music and Education majors take Music 156M. All others take Music 156. Course Type(s): none

MU 156M Cr. 0.0
Chamber Orchestra
A Monmouth University Chamber Chorus is an ensemble of sixteen to twenty-four auditioned singers who wish to extend their knowledge and skills in choral arts in a challenging musical setting. The repertoire for this ensemble requires a moderate/high degree of individual musicianship and mastery of specific singing techniques and period music interpretation. The group functions as a concert-ready and portable ensemble that responds to requests for particular types of venues, such as: sporting events, lecture/presentations, dedications, special events, and graduation ceremonies. Additionally, the group will undertake periodic concert tours as a vehicle for a wider public performance experience and with regard to public relations, meaningful connections with other academic institutions, and university recruitment. Music Majors only Course Type(s): none

MU 157 Cr. 1.0
Chamber Choir I
The Monmouth University Chamber Chorus is an ensemble of sixteen to twenty-four auditioned singers who wish to extend their knowledge and skills in choral arts in a challenging musical setting. The repertoire for this ensemble requires a moderate/high degree of individual musicianship and mastery of specific singing techniques and period music interpretation. The group functions as a concert-ready and portable ensemble that responds to requests for particular types of venues, such as: sporting events, concert tours as a vehicle for a wider public performance experience with regard to public relations, meaningful connections with other academic institutions, and university recruitment. Audition required and registration is by the instructor. Course Type(s): none

MU 157M Cr. 0.0
Chamber Choir I
A Monmouth University Chamber Chorus is an ensemble of sixteen to twenty-four auditioned singers who wish to extend their knowledge and skills in choral arts in a challenging musical setting. The repertoire for this ensemble requires a moderate/high degree of individual musicianship and mastery of specific singing techniques and period music interpretation. The group functions as a concert-ready and portable ensemble that responds to requests for particular types of venues, such as: sporting events, lecture/presentations, dedications, special events, and graduation ceremonies. Additionally, the group will undertake periodic concert tours as a vehicle for a wider public performance experience and with regard to public relations, meaningful connections with other academic institutions, and university recruitment. Music Majors only Course Type(s): none
tours as a vehicle for a wider, public performance experience and with regard to public relations, meaningful connections with other academic institutions, and university recruitment. Audition required and registration is by instructor.
Prerequisite: Music 157.
Course Type(s): none

MU 158M Cr. 0.0
Chamber Choir II
The Monmouth University Chamber Chorus is an ensemble of sixteen to twenty-four auditioned singers who wish to extend their knowledge and skills in choral arts in a challenging musical setting. The repertoire for this ensemble requires a moderate/high degree of individual musicianship and a mastery of specific singing techniques and period music interpretation. The group functions as a concert-ready and portable ensemble that responds to requests for particular types of venues, such as: sporting events, lecture/presentations, dedications, special events, and graduation ceremonies. Additionally, the group will undertake periodic concert tours as a vehicle for a wider, public performance experience and with regard to public relations, meaningful connections with other academic institutions, and university recruitment. Audition is required, and registration is by the instructor. Music Majors only
Course Type(s): none

MU 161 Cr. 2.0
Group Instrument I
Designed to develop instrumental technique and repertoire; open to students who have some proficiency in strings, woodwinds, brass, or percussion.
Course Type(s): none

MU 162 Cr. 2.0
Group Instrument II
Designed to develop instrumental technique and repertoire; open to students who have some proficiency in strings, woodwinds, brass, or percussion.
Course Type(s): none

MU 163 Cr. 1.0
Group Strings
Designed especially for music education students who are required to have some proficiency in group strings to meet state certification guidelines. Open to beginners only. Non-music majors may enroll by permission of the Department of Music and Theatre Arts.
Course Type(s): none

MU 164 Cr. 1.0
Group Woodwinds
Designed especially for music education students who are required to have some proficiency in group woodwinds to meet state certification guidelines. Open to beginners only. Non-music majors may enroll by permission of the Department of Music and Theatre Arts.
Course Type(s): none

MU 165 Cr. 1.0
Group Brass
Designed especially for music education students who are required to have some proficiency in group brass to meet state certification guidelines. Open to beginners only. Non-music majors may enroll by permission of the Department of Music and Theatre Arts.
Course Type(s): none

MU 166 Cr. 1.0
Group Percussion
Designed especially for music education students who are required to have some proficiency in group percussion to meet state certification guidelines. Open to beginners only. Non-music majors may enroll by permission of the Department of Music and Theatre Arts.
Course Type(s): none

MU 167 Cr. 3.0
Introduction to Electronic Music
Fundamentals of electronic music acquired through lectures, recordings, and hands-on use of electronic synthesizers.
Course Type(s): none

MU 170 Cr. 3.0
Electronic Music Composition
A course designed for musicians who wish to compose and record music in a soundtrack, avant garde, or classical genre. Students will be required to use university recording facilities.
Course Type(s): none

MU 171 Cr. 3.0
Group Voice I
Fundamentals of technique and performance of song literature; voice production and principles of singing, including breath control, resonance, tone quality, diction, and pronunciation.
Course Type(s): none
Appendix A: Course Descriptions

MU 171M  Cr. 0.0
Group Voice I
Fundamentals of technique and performance of song literature; voice production and principles of singing, including breath control, resonance, tone quality, diction, and pronunciation. May be taken for as many as eight semesters. Course Type(s): none

MU 172  Cr. 3.0
Group Voice II
Fundamentals of technique and performance of song literature; voice production and principles of singing, including breath control, resonance, tone quality, diction, and pronunciation.

MU 172M  Cr. 0.0
Group Voice II
Fundamentals of technique and performance of song literature; voice production and principles of singing, including breath control, resonance, tone quality, diction, and pronunciation. May be taken for as many as eight semesters. Course Type(s): none

MU 180  Cr. 1.0
Applied Music: Jazz Piano
Weekly, fifty-minute private lessons in jazz piano; may be repeated for additional credits. Prerequisite: Permission of the instructor. Course Type(s): none

MU 181  Cr. 1.0
Applied Music: Bass
Weekly, fifty-minute private lessons in bass; may be repeated for additional credits. Prerequisite: Permission of the instructor. Course Type(s): none

MU 188  Cr. 3.0
Fundamentals of Guitar
General music skills as applied to guitar playing; students develop left- and right-hand technique; introduction to basic repertoire and history of repertoire. Course Type(s): none

MU 190  Cr. 1.0
Applied Music: Percussion
Weekly, fifty-minute private lessons in percussion; may be repeated for additional credit. Prerequisite: Permission of the instructor. Course Type(s): none

MU 191  Cr. 1.0
Applied Music: Voice
Weekly, fifty-minute private lessons in voice; may be repeated for additional credit. Prerequisite: Permission of the instructor. Course Type(s): none

MU 192  Cr. 1.0
Applied Music: Piano
Weekly, fifty-minute private lessons in piano; may be repeated for additional credit. Prerequisite: Permission of the instructor. Course Type(s): none

MU 193  Cr. 1.0
Applied Music: Upper Brass
Weekly, fifty-minute private lessons in upper brass; may be repeated for additional credit. Prerequisite: Permission of the instructor. Course Type(s): none

MU 194  Cr. 1.0
Applied Music: Lower Brass
Weekly, fifty-minute private lessons in lower brass; may be repeated for additional credit. Prerequisite: Permission of the instructor. Course Type(s): none

MU 195  Cr. 1.0
Applied Music: Woodwinds
Weekly, fifty-minute private lessons in woodwinds; may be repeated for additional credit. Prerequisite: Permission of the instructor. Course Type(s): none

MU 196  Cr. 1.0
Applied Music: Guitar
Weekly, fifty-minute private lessons in guitar; may be repeated for additional credit. Prerequisite: Permission of the instructor. Course Type(s): none

MU 197  Cr. 1.0
Applied Music: Strings
Weekly, fifty-minute private lessons in strings; may be repeated for additional credit. Prerequisite: Permission of the instructor. Course Type(s): none
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Course Type(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU 198</td>
<td>1.0 - 3.0</td>
<td>Special Topics in Music (100 Level)</td>
<td>An intensive study of a particular subject or problem in music to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis. Prerequisite: As announced in the course schedule.</td>
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<tr>
<td>MU 199</td>
<td>1.0</td>
<td>Applied Music: Private Instruction</td>
<td>Private instrumental and vocal instruction. The instructor is selected by the student with the approval of the Music faculty. Students must consult the Music Department.</td>
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<tr>
<td>MU 216</td>
<td>3.0</td>
<td>From Blues to Rap: The African-American Music Tradition</td>
<td>Contributions of African-Americans to American music: slave songs, spirituals, blues, rhythm and blues, soul, and rap music. Prerequisites: English 101 and 102 or permission of the instructor.</td>
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<tr>
<td>MU 217</td>
<td>3.0</td>
<td>The American Music Tradition</td>
<td>A survey of American music from the colonial period to the present, including folk and ethnic music, military and parade music, war songs, Tin Pan Alley pop, Broadway show tunes, and composers, such as Stephen Foster, Woody Guthrie, and Irving Berlin. Prerequisites: English 101 and 102 or permission of the instructor.</td>
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<tr>
<td>MU 218</td>
<td>3.0</td>
<td>History and Literature of Music I</td>
<td>Survey of musical idioms and forms from Ancient Greek to the Baroque periods. Primary focus on Western music in Western culture; some time will be spent exploring the music of Asia, Africa, and South America; exploration of the great musical literature that has survived from antiquity through 1700 A.D. Prerequisites: English 101 and 102 or permission of the instructor.</td>
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<tr>
<td>MU 219</td>
<td>3.0</td>
<td>History and Literature of Music II</td>
<td>Survey of musical forms and idioms from the Classical period until the present. Primary focus is to expose the student to the vast body of musical masterworks created in the modern era, as well as exploration of world music. Prerequisites: English 101 and 102 or permission of the instructor.</td>
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<tr>
<td>MU 221</td>
<td>3.0</td>
<td>Theory I</td>
<td>Basic knowledge of the procedures of harmony and melody. Prerequisite: Music 151 or departmental approval. Course Type(s): none</td>
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<tr>
<td>MU 222</td>
<td>3.0</td>
<td>Theory II</td>
<td>The rudiments of music writing, from the harmonization of simple melodies to the writing of more complex music. Emphasis on more advanced compositions. Prerequisite: Music 221 or departmental approval. Course Type(s): none</td>
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<tr>
<td>MU 240</td>
<td>1.0</td>
<td>Applied Music Industry II</td>
<td>Students will be introduced to a variety of skills needed in the music industry. Each student will be required to complete specific, hands-on projects in preparation for a major internship off campus. Prerequisite: Music 140. Course Type(s): none</td>
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<tr>
<td>MU 241</td>
<td>1.0</td>
<td>Applied Music Industry III</td>
<td>Students will be introduced to a variety of skills needed in the music industry. Each student will be required to complete a specific hands-on project as preparation for a major internship off campus. Limited to Music majors. Prerequisites: Music 140 and 240. Course Type(s): none</td>
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<tr>
<td>MU 290</td>
<td>3.0</td>
<td>Rock and Roll in American Culture</td>
<td>Impact of rock and roll on American culture and music history; rock genres, including rockabilly, protest rock, blues-rock, punk, heavy metal, and rock and roll as a global phenomenon. Course Type(s): WT</td>
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MU 291 Cr. 3.0
Jazz in America
Musical and cultural overview of the jazz tradition in America, with special emphasis on Dixieland, swing, bop, and jazz fusion, and artists such as Louis Armstrong, Count Basie, Duke Ellington, Charlie Parker, and John Coltrane.
Course Type(s): WT

MU 292 Cr. 3.0
Roots, Rock, Reggae
A survey of Jamaican reggae music from its inception to the present. The music form’s political, religious, and cultural connections will also be examined, as will the major works of reggae composers, such as Bob Marley, Jimmy Cliff, and Peter Tosh.
Course Type(s): none

MU 298 Cr. 1.0 - 3.0
Special Topics in Music (200 Level)
An intensive study of a particular subject or problem in music to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

MU 301 Cr. 3.0
The Business of Music
An introduction to the inner workings and business strategies of the music industry. In addition to an analysis of the recording arm of the industry, other areas such as concert production, management, media relations, and talent acquisition will also be examined.
Course Type(s): none

MU 321 Cr. 3.0
Music Theory III
Music Theory III is the third semester of a sequential, two-year music theory curriculum. After a brief review of the material covered in Music Theory I (Music 221) and Advanced Theory and Harmony (Music 222), an introduction to the music materials and stylistic practices associated with nineteenth-century music is provided. Procedure will entail examining and working with melodic, rhythmic, harmonic, and structural elements found in the music being studied.
Prerequisites: Music 221 and 222.
Course Type(s): none

MU 322 Cr. 3.0
Music Theory IV
Music Theory IV is the fourth semester of a sequential, two-year music theory curriculum. After a brief review of the material covered in Music Theory I (Music 221), Advanced Theory and Harmony (Music 222), and Music Theory III (Music 321), an introduction to the music materials, stylistic practices and the unique forms and approaches associated with twentieth-century music is provided. Procedure will entail examining and working with the melodic, rhythmic, harmonic, and structural elements found in the music being studied.
Prerequisites: Music 221, 222, and 321.
Course Type(s): none

MU 327 Cr. 3.0
Instrumental Arranging and Basic Orchestration
Practical problems of orchestration, including transposition, characteristics and limitation of various band, orchestral, keyboard, and electronic instruments; arranging for instrumental ensembles of various sizes.
Prerequisite: Music 222.
Course Type(s): none

MU 328 Cr. 3.0
Conducting
Basic choral and instrumental conducting techniques with emphasis on the physical problems of coordination and control, as well as interpretation, rehearsal, performance, and program planning. Each student will function as an assistant to the choral/instrumental conductors.
Prerequisites: Music 218, 151, and four semesters of Music 145, 146 and/or 147, 148.
Course Type(s): none

MU 329 Cr. 3.0
Conducting II
A continuation of Music 328. Basic choral and instrumental conducting techniques with emphasis on the physical problems of coordination and control, as well as interpretation, rehearsal, performance, and program planning. Each student will function as an assistant to the choral/instrumental conductors.
Prerequisite: Music 328.
Course Type(s): none

MU 329W Cr. 2.0
Workshop in the Techniques of Composing Music
Explores problems in melody, rhythm, and harmony, including texture and the elements of musical form, pre-
sented in line with the needs of individual students as revealed in their original composition.
Prerequisite: Music 222.
Course Type(s): none

MU 331 Cr. 2.0
Music for the Child
Methods and materials of teaching in the elementary school (K-8); singing, rhythmic expression, listening, use of simple instruments, and correlating music with other areas of learning. For Music majors only. Also listed as Education 331.
Prerequisites: Music 151 and 218.
Course Type(s): none

MU 333 Cr. 2.0
The Teaching of Music in the Secondary School
Study and application of appropriate concepts, methods, skills, and materials for secondary-school music teachers. For Music majors only. Also listed as Education 333.
Prerequisites: Music 151 and 218.
Course Type(s): none

MU 340 Cr. 3.0
Music and Music Publishing for TV, Radio, and Film
Defines and examines the many opportunities available to the musician in the mass media, including theme composition, post scoring, jingle production, news music, production libraries, music editing, soundtrack production, on-air and cable network yearly campaigns, EFX and usage, available orchestral sources, client relations, timings and conversations, on-air and theatrical publishing, professional societies (ASCAP, BMI, SESAC), budgeting, and union relations and affiliations.
Course Type(s): none

MU 341 Cr. 3.0
Songwriting I
Designed to analyze and study the many components of song writing focusing on today’s contemporary music featured on radio, film and television. Various styles will be studied and developed, from rap to country music. Nashville style group writing will be used as will Writer in the Round type performances. Ability to play an instrument is recommended but not required.
Course Type(s): none

MU 342 Cr. 3.0
Songwriting II
A continuation of Songwriting I and will focus on final arrangements and production of songs to be presented to publishers, record labels, etc. Also covered will be how to properly present works to producers and session musicians in the form of basic lead sheets and music notation.
Course Type(s): none

MU 345 Cr. 3.0
Record Production
Examines all of the aspects of record production, from choice of artist and material to the actual art of recording itself. Will meet in a fully equipped recording studio and will be co-taught by the lecturing professor and a professional sound engineer. The recording techniques to be taught will be applicable to all forms of music, including classical jazz, rock, and mass/multimedia. The student will have hands-on instruction on the use of analog and digital recording machines, sound boards, and outboard gear.
Course Type(s): none

MU 353 Cr. 3.0
Contemporary Rock Ensemble I
Designed to run as a professional touring band would in preparation for a major tour and/or recording session. Covers many different genres with varying instrumentation. Taught by a seasoned road veteran with twenty years of experience in major tours/acts.
Course Type(s): none

MU 354 Cr. 3.0
Contemporary Rock Ensemble II
A continuation of Rock Ensemble I, which is designed to run as a professional touring band would in preparation for a major tour and/or recording session. It will cover many different genres with varying instrumentation. Taught by a seasoned road veteran with twenty years of experience in major tours/acts.
Course Type(s): none

MU 398 Cr. 3.0
Special Topics in Music (300 Level)
An intensive study of a particular subject or problem in music to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis. Prerequisite: As announced in the course schedule.
Course Type(s): none

MU 399 Cr. 1.0 - 3.0
Independent Study in Music
An intensive study of a particular subject or problem in music to be announced prior to registration.
Course Type(s): none
MU 401 Cr. 3.0
Music Business Internship Seminar
Practical experience in the music industry in fields such as concert production, promotion, publicity, music publishing, and management. This course is repeatable for credit.
Prerequisites: Music 301, departmental approval and Junior standing.
Course Type(s): EX

MU 402 Cr. 3.0
Music Internship Seminar II
Practical experience in the music industry in fields such as concert production, promotion, publicity, music publishing, and management. Limited to Music majors only.
Prerequisite: Music 401.
Course Type(s): EX

MU 403 Cr. 3.0
Music Internship Seminar III
Practical experience in the music industry in fields such as concert production, promotion, publicity, music publishing, and management. Limited to Music majors only.
Prerequisite: Music 402.
Course Type(s): none

MU 405 Cr. 3.0
Composition
Using the technique of Replicate-Generate From-Generate, this course combines the student’s knowledge of traditional styles, form, and analysis in order to replicate music in many styles. The student will then begin to combine his or her own musical ideas into these compositions. The second half of the semester will be devoted to the original compositions of the student while employing the disciplines previously studied. Classical as well as contemporary motifs will be explored in this lecture-discussion-workshop course.
Prerequisites: Music 218, 219, 221, and 222.
Course Type(s): none

MU 406 Cr. 3.0
Composition II
Using the technique of Replicate-Generate From-Generate, this course combines the student’s knowledge of traditional styles, form, and analysis in order to replicate music in many styles. The student will then begin to combine his or her own musical ideas into these compositions. The second half of the semester will be devoted to the original composition of the student while employing the disciplines previously studied. Classical as well as contemporary motifs will be explored in this lecture-discussion-workshop course.
Prerequisite: Music 405.
Course Type(s): none

MU 453 Cr. 3.0
Advanced Record Production
Addresses the aesthetics of record production. Studio techniques, pre-production approaches, actual recording and final mixing are at the heart of this course. Students will learn microphone techniques as well as control room techniques. The full responsibilities of the producer will be taught and discussed in the class, as well as practiced outside of the studio/classroom. Lectures and demonstrations will precede the student’s practical application and final product.
Prerequisite: Music 401.
Course Type(s): none

MU 498 Cr. 1.0 - 3.0
Special Topics in Music (400 Level)
An intensive study of a particular subject or problem in music to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

MU 499 Cr. 1.0 - 3.0
Independent Study in Music
Reading and research on a selected topic under the direction of a Music department faculty member.
Course Type(s): none

NURSING

NU 100 Cr. 3.0
Technology and Health Informatics
Designed to provide an introduction to the computer technology used in health care and its impact on decision-making. Includes an overview of the basic computer skills required to process electronic information, the nature and types of health information available on the World Wide Web, the development of search skills associated with finding information, linking electronic information to health decision-making processes, ethical and social issues involving the use of technology, and identifying major issues in computer and Internet security. Also listed as Health Studies 100.
Course Type(s): TL
NU 300 Cr. 3.0
Theoretical Concepts in Nursing
Theoretical foundation for each successive nursing course; an introduction to the nursing metaparadigm concepts, nursing conceptual models, and theories; relationship of theory to professional nursing practice, education, and research.
Prerequisite: Permission of chair required for non-B.S.N. students.
Course Type(s): none

NU 311 Cr. 3.0
Issues and Trends in Professional Nursing
Utilizing the Monmouth University philosophy of nursing, the course explores the role of the nurse as a professional practitioner and as a member of the health care team. Content includes: trends and issues affecting health care of consumers, nursing, nursing education, and the health care delivery system, professional accountability, legal and ethical concerns, client advocacy, as well as political and social issues related to health care.
Prerequisite: Permission of chair required for non-B.S.N. students.
Course Type(s): WT

NU 312 Cr. 3.0
Individual Health Assessment
Theory and practice of health-assessment skills, identification of deviations from normal, and documentation of findings. Use of techniques in a university laboratory to collect subjective and objective assessment data from a developmental, hereditary, environmental, and nutritional perspective. Relationship of health assessment to the role and responsibilities of the professional nurse in application of the nursing process. Application of these skills is expected in Nursing 415.
Prerequisites: Biology 111 and 112; R.N. license and malpractice insurance.
Course Type(s): none

NU 324 Cr. 3.0
Human Sexuality
An introductory course designed to provide the student with a factual background as well as an in-depth understanding of his or her own and others’ sexuality and how it affects health. Focuses on developing an understanding of the essential components of human sexuality and their interrelationship with human development. Social, cultural and developmental determinants will be examined for their influence upon human sexuality. Examines the relationship between human sexuality and professional nursing practice. Content will include: the use of a sexual history in the nursing assessment, sexually transmitted disease, effects of pregnancy and aging on sexuality, effects of medical, surgical, and chronic health problems on an individual’s sexual functioning and identity. The role of the nurse as an educator/counselor is discussed. Also listed as Health Studies 324.
Course Type(s): GS, NU.EL

NU 330 Cr. 3.0
Women’s Health
Health care needs/concerns of women from diverse cultures will be examined. The focus will be on African, Asian, Caribbean, and Latina perspectives of health benefits, health practices, physical and physiological threats, and ethical issues. Body image, sexuality, marriage customs, reproduction, childbirth, parenting, lifestyle choices, menopause, and aging will be examined within the context of culture and contrasted to those of Western women. Also listed as Health 330.
Course Type(s): CC, CD, GS, NU.EL

NU 355 Cr. 3.0
Research Methods in Nursing
Focuses on the nurse as a consumer of research. Emphasis is placed upon studying the steps of the research process as a basis for understanding investigation of nursing problems and the application of findings to practice. Seeks to prepare students with an introduction to basic methodological and statistical concepts. Not open to students who have passed Nursing 350.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): WT

NU 360 Cr. 3.0
Transcultural Health
Focus on African, Asian, Caribbean, South and Latin-American, Middle-East, and Indian beliefs, values and health practices, physical and psychological threats to health, and ethical issues. Differences of cultural beliefs related to health, illness, and the impact on the delivery of healthcare will be examined. Also listed as Health 360.
Course Type(s): CC, GU, HE.EL

NU 365 Cr. 3.0
Wisdom, Wellness and Aging
Provides an understanding of the cross-cultural variations in the status of aging and health in older adults. Examples of various cultures include examining older adults from non-English speaking countries such as...
Korea, Iran, Mexico, China, and Brazil. Examines older adults from these diverse populations as well as other nations. Topics to be covered include examinations of health implications on aging populations in non-English speaking countries. Compare countries, such as Japan, India, and Nigeria, to explore how their specific culture influences caregiving, social support networks, and community. Specific, cultural views of love, intimacy, and sexuality in older adults will be examined. Also listed as Health 365.
Course Type(s): CC, HE.EL

NU 370 Cr. 3.0
Alternative/Complementary Health Therapies
Cultural origins of CAM therapies will be discussed. Perspectives of health and healing through co-mingling Eastern Traditional Complementary and Alternative (TCAM) therapies and Western biomedical practices into an integrative strategy will be examined. Appropriate therapies for health promotion and specific illness contexts, potential risks/benefits, ethical issues addressing treatment choices and global entities that employ CAM therapies will be discussed. There will be an emphasis on choosing CAM therapies that are supported by research as safe and effective. Knowledge of reliable sources of information on the Internet will improve decision-making regarding therapies. Also listed as Health 370.
Course Type(s): CC, GU, NU.EL

NU 375 Cr. 3.0
Health in Developing Countries: A Cross-Cultural Perspective
Designed to introduce students to the concept of health as a cross-cultural issue. Students will examine their own health beliefs and practices and expand their understanding of health and health issues of the developing world. Contemporary health issues will be analyzed. Healthcare delivery systems in selected countries in Asia and Africa will be examined and compared to the American healthcare system. Students are expected to problem solve and postulate solutions to contemporary and emerging health issues. Also listed as Health 375.
Course Type(s): CC, GU, NU.EL

NU 380 Cr. 3.0
Nutrition and Health
An introduction to the physiology of nutrition, basic concepts of normal nutrition, and nutrition in chronic disease (such as diabetes mellitus, cardiovascular disease, and obesity) will be explored. A study of the basic nutrients and the gastrointestinal system in its role of digestion, absorption, and metabolism. Food needs of an individual throughout life (birth to old age) will be considered, along with necessary dietary modifications caused by decreased activity. Food fads and fallacies will be discussed, as will factors to consider in choosing a healthy diet. Current concerns, such as how safe are the additives in our foods, the role of sugar, salt and highly processed foods, alternative therapies such as herbal remedies, and phytochemicals and their potential roles in modern nutrition, will be studied. Weight management will be addressed as it relates to medical nutrition therapy. Also listed as Health 380.
Course Type(s): NU.EL

NU 398 Cr. 1.0 - 3.0
Special Topics in Nursing (300 Level)
An intensive study of a particular subject or problem in nursing to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

NU 413 Cr. 3.0
Community Health Nursing I: Nursing of the Young Family
The family as the basic unit of care in the community: a developmental approach to the nursing care of expanding families from conception through adolescence; the concept of health, environmental, and genetic influences; impact of political and economic policies, educational principles, ethics, health promotion, illness prevention, and common deviations from health.
Prerequisite: Nursing 311.
Corequisite: Nursing 360.
Course Type(s): RD

NU 414 Cr. 3.0
Community Health Nursing II: Nursing of Communities
Care of groups and communities: a developmental approach focusing on adolescence through senescence; community health and public health theories, epidemiology, health promotion, illness prevention, research, ethics, palliative care, vulnerable populations, and common deviations from health.
Prerequisite: Nursing 413.
Corequisite: Nursing 415.
Course Type(s): none
NU 415 Cr. 3.0
Community Health Nursing Laboratory
The nine-hour clinical laboratory for Community Health Nursing. The nursing process is applied in a variety of community settings to clients from the formation of the family through senescence. Application of principles of health education, health promotion, and illness prevention in a culturally sensitive manner.
Prerequisites: Nursing 300, 311, 312, 324, 344 and 413.
Corequisite: Nursing 414.
Course Type(s): EX

NU 440 Cr. 3.0
Health Policy
Delves into the core elements that define health policy. Describes factors, such as the healthcare delivery systems (public/non-profits vs. private/for profit), access to care, healthcare financing, quality of care issues, and social issues, such as gender and culture, and their impact on health and healthcare. The dynamics of the policy-making process at different levels (federal, state and local) will be explored, along with policy analysis and how policy influences healthcare decisions. The complexities and challenges of healthcare reform will be identified. Also listed as Health Studies 440.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): WT

NU 445 Cr. 3.0
Nursing for the Future
The acquisition of knowledge and skills necessary for personal and professional growth designed to address the elements of successful leadership in a manner that is practical and relevant for today's professional nurse.
Prerequisites: Nursing 300, 311, 312, and 324; and English 101 and 102 or permission of the instructor.
Course Type(s): WT

NU 476 Cr. 3.0
Interpersonal Violence
Examines the various types and patterns of violence related to cultural values, beliefs, biases, and societal issues, as well as the historical perspectives of violence. Content includes: family, community, youth, workplace violence, and child, domestic, elder, and sexual abuse. Theories concerning gender violence, gangs, bias and hate crimes, and terrorism are challenged. Public health and health-care issues related to violence, and primary-, secondary- and tertiary-level interventions for victims and offenders of violence are discussed. Individual responsibilities associated with identification and reporting violence are identified. Health-care measures to identify and prevent violence are analyzed. Methods of treatment for victims and perpetrators of violence are evaluated.
Course Type(s): NU.EL

NU 498 Cr. 1.0 - 3.0
Special Topics in Nursing (400 Level)
An intensive study of a particular subject or problem in nursing to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

NU 499 Cr. 1.0 - 3.0
Independent Study in Nursing
Guided research and in-depth study of an area of nursing and/or health care of particular interest to the student.
Prerequisites: Completion of all 300-level courses and permission of the directing professor and department chair.
Course Type(s): none

PERSPECTIVES

PR 400 Cr. 3.0
Love, Life, and Liberty
An examination of the historical and philosophical aspects of love and the assertion for freedom, starting from the biological concept of life. Throughout history, the various interpretations of these ideas have shaped the world. Students will be introduced to some of the most important, related works that are the fiber of History, Philosophy, and Science. The analysis of revered, cultural traditions will show the impact of love on the rational thinking and artistic creation.
Prerequisites: Ninety credits and completion of all other general education requirements.
Also listed as Religious Studies 400.
Course Type(s): ISP

PR 401 Cr. 3.0
Perceptions
An in-depth visual study dealing with the various ways that artists perceive the world around them as it relates to specific subject matter, aesthetics, and to cultural, historical, and psychological implications. Beauty and reality will be examined in all categories studied, with emphasis on the personal perceptions of the student.
Prerequisites: Ninety credits and completion of all other
Appendix A: Course Descriptions

PR 402 Cr. 3.0

Witchcraft and Magic
The meanings, origins, and historical significance of beliefs in witchcraft and magic in Europe, America, and selected traditional societies. Includes the relationship between religion, magic, and witchcraft and the reasons for the decline in witchcraft beliefs. The disciplines represented include History and Anthropology. 
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): GS, ISP

PR 404 Cr. 3.0

Ethnic Lives
Institutional racism in America, its effect on intergroup relations, and the response of ethnic group members to it. Ethnicity in America is examined from a global perspective. Readings in Sociology and Literature.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): none

PR 405 Cr. 3.0

Toxic Wastes
Examination of the nature of toxic wastes in New Jersey, how waste dumps are sited, the basic chemistry and toxicology of dump components, the impact on people and the environment, the development of public policy for control and cleanup of SuperFund sites in New Jersey, and implications for the future and the world. The disciplines represented include Chemistry, Economics, and Political Science.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): none

PR 406 Cr. 3.0

The Individual and Society
The impact of two cultural ideologies; the influence of individualism and collectivism on individual thought and behavior, social interaction, societal values, and global order. The disciplines represented include Psychology, Ethics, Cultural Anthropology, and Sociology.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP
er global communities in which we live. Throughout the
course, students will examine ethical and social issues
concerning gender and culture.
Prerequisites: Ninety credits and successful completion of
all other general education requirements.
Course Type(s): GS, ISP

PR 412 Cr. 3.0
Education, Equality, and Elitism
Tensions between equality and elitism in education; con-
sideration of inequalities in educational systems, pro-
posed remedies; historical models; accounts of issues of
race, gender, and class; and critiques of American educa-
tion in terms of its international competitiveness.
Disciplines represented are Philosophy and Education,
with supporting materials from Literature.
Prerequisites: Ninety credits and completion of all other
general education requirements.
Course Type(s): none

PR 413 Cr. 3.0
Population Dynamics and a Sustainable Future
An exploration of the complex and interrelated issues of
population dynamics, resource consumption, socioeco-
nomic development, environmental protection, and global
interdependence.
Prerequisites: Ninety credits and completion of all other
general education requirements.
Course Type(s): SUS

PR 414 Cr. 3.0
Parent Child Socialization: A Cross-Cultural
Approach
An intensive, cross-cultural investigation of childhood
socialization. Topics include: socialization, enculturation,
sex-role socialization, and socialization processes in vari-
ous cultures, such as China, Japan, Polynesia, and the
United States. Disciplines represented include
Psychology and Cultural Anthropology united through
cross-cultural methods.
Prerequisites: Ninety credits and completion of all other
general education requirements.
Course Type(s): none

PR 415 Cr. 3.0
Technology and Women’s Lives
The impact of modern technology in women's lives. The
aspects to be examined in depth include technology and
the workplace (employment), technology and the home
(housework), and technology and reproduction (contra-
ception, pregnancy, and infertility). The disciplines repre-
sented include Sociology and Ethics.
Prerequisites: Ninety credits and completion of all other
general education requirements.
Course Type(s): GS

PR 416 Cr. 3.0
Management and Liberal Arts
Exploration and comparison of the development and con-
text through literature of real issues faced by managers in
the public and private sectors.
Prerequisites: Ninety credits and completion of all other
general education requirements.
Course Type(s): none

PR 418 Cr. 3.0
Eastern-Western Approaches to Wellness, Health,
and Healing
Exploration and comparison of Eastern and Western
approaches to wellness, health, and healing, known cur-
cently as the mind/body question. Examination of how
beliefs inherent in these traditions influence concepts of
health and disease.
Prerequisite: Ninety credits and completion of all other
general education requirements.
Course Type(s): ISP

PR 419 Cr. 3.0
Mathematics of Artistic Design
Exploration of the mathematics that may be used to
describe and create some artistic designs in architecture,
sculptures, paintings, and other sources. Appropriate
mathematical concepts from topology, number theory,
symmetry groups, the geometries, and the calculi will be
discussed and studied. Original, artistic designs will be
created, employing mathematical concepts and computer
software.
Prerequisites: Ninety credits and completion of all other
general education requirements.
Course Type(s): none

PR 420 Cr. 3.0
Society and Technology of Information
The technology of communication systems and its impact
on society’s growth, with emphasis on the printing press,
television, and the computer. The disciplines represented
include Science, History, Economics, and Sociology.
Prerequisites: Ninety credits and completion of all other
general education requirements.
Course Type(s): none
Appendix A: Course Descriptions

PR 422 Cr. 3.0
AIDS and the Global Society
A global perspective of the HIV/AIDS pandemic using three major disciplinary approaches of biology, public health, and social anthropology. The impact of the disease on individuals, families, and communities in western and non-western countries; associated social, psychological, ethical, economic, and health issues are explored.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): HE.EL, HEPE, ISP, NU.EL

PR 423 Cr. 3.0
Perspectives on Human Rights
An interdisciplinary and cross-cultural exploration of the question of human rights. The disciplinary perspectives of Philosophy, Political Science, History, and Literature are used to examine the different dimensions of human rights in the world.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): none

PR 424 Cr. 3.0
Place, Identity, and Behavior
Integrates geography and psychology in order to examine the interrelationship of people with geographic places that are experienced directly through residence, work, and travel, and indirectly through media, family stories, and education.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): none

PR 426 Cr. 3.0
Contemporary Issues in Free Speech
Global study of free speech that offers an interdisciplinary examination of the evolution of political and personal freedom. Examination of western history, comparison of non-western freedoms, and consideration of the philosophical arguments that have raged over centuries about the degree of freedom individuals should have.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): none

PR 427 Cr. 3.0
Ideas in the Art of Asian Civilization
An exploration of how ideas associated with Buddhism, Hinduism, Confucianism, Taoism, and Shinto influenced and shaped painting, sculpture, architecture, and some minor arts in traditional India, China, and Japan.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): none

PR 428 Cr. 3.0
Children's Folklore
An investigation of the theoretical perspectives of development psychologists, anthropologists, and comparative historians. Working in the field of Literary Studies, students will learn to analyze children's folklore with theoretical and methodological tools borrowed from the disciplines of anthropology, psychology, and comparative historical analysis. Topics include: rhymes, riddles, jokes, songs, lore, and other language use in American children and children from other cultural groups.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

PR 429 Cr. 3.0
Health and Healing Across Cultures
A cross-cultural examination of health and healing. Through lecture, discussion of the readings, case studies, and film presentations, students will explore the biological and sociocultural factors that affect health, illness, disease, and healing, both now and in the past. Students will also examine the impact of the healer and supernatural belief systems on the process of healing. In addition to the evaluation of the cultural health aspects of Africans, African-Americans, Hispanics/Latinos, Haitians, and the Hmong, these populations will also be compared to the general American population in terms of overall health and access to health care.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): none

PR 431 Cr. 3.0
Popular Culture and Scientific Discourse
A study in the ideological influences of science on American society and culture, with a special emphasis on how scientific language is presented, packaged, and distorted for public consumption.
Prerequisites: Ninety credits and completion of all general education requirements.
Course Type(s): none
PR 432 Cr. 3.0
*Ethics and Professionalism in Science and Engineering*
Provides a broad view of ethics and professionalism in the context of Science and Engineering. Teaches valuable practical skills, as well as the basic analytic tools required to make the ethical decisions confronted by professionals in any field. Describes the special role of professionals in society and uses the key perspectives of engineering and philosophy to explore their responsibilities. Additional perspectives, e.g. organizational psychology and law, will be incorporated as appropriate. A key course dynamic will be the interplay between producers and consumers of technology as common ethical dilemmas are approached from both viewpoints. The topics covered will include: problem-solving in the context of ethics and codes of conduct, professional societies, working as a member of a team and international issues, as well as how to be a productive and contributing professional.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

PR 433 Cr. 3.0
*Death and Dying*
A study of attempts to understand the meaning of death and the cultural practices that surround death and dying. The disciplines represented include: bioethics, literature, and philosophy.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): HE.EL, HEPE, ISP, NU.EL

PR 434 Cr. 3.0
*Immigration and the United States*
Traces the historical experience of immigrants in the U.S., examines their place in the stratification system, the forms of prejudice and discrimination they have encountered, and their patterns of assimilation into the larger society. The disciplines of History and Sociology are used to examine problems, including social and ethical issues, encountered by immigrants, United States citizens, and policy makers. Topics will include a historical examination of immigration policy, push/pull factors that influence immigration, and settlement patterns within the United States. Prepares students to identify immigration problems and research solutions.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

PR 435 Cr. 3.0
*The Way and the Word: Hinduism*
A comparison of classic texts central to two Asian traditions, The Bhagavad Gita and The Analects; the impact of the ethos of each tradition on secular narratives, Asian and Western. The disciplines represented include Comparative Religion and Literature. Also listed as Religious Studies 435.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

PR 436 Cr. 3.0
*Urban Legends*
An examination of urban legends from multiple perspectives.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

PR 437 Cr. 3.0
*Perspectives on the Human Experiences: Family Violence*
Designed as an interactive seminar course that engages students in interactive discussions and experiential exercises related to understanding and working with families who have experiences violence, including both survivors and perpetrators. The impact of culture on family violence across intergenerational family members (e.g., children, parents, and grandparents) and diverse populations and settings are thoroughly reviewed. Students learn a strengths-based empowerment approach and application of resiliency theory to assessment, prevention, intervention planning, and evaluation of individual, families, and communities impacted by abuse and violence.
Prerequisite: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

PR 438 Cr. 3.0
*Nature of the Self: East and West*
A comparative study of Asian and Western theories about the nature and definition of self using an interdisciplinary approach - philosophy, religion, and history.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): none

PR 439 Cr. 3.0
*Interdisciplinary Perspective on Social Business*
Micro-credit has become one of the most successful
Appendix A: Course Descriptions

social business interventions in addressing poverty in the developing world. As a successful initiative, it is now traveling from the developing world to the developed world. Addresses the historical, philosophical, and theoretical underpinnings of social business, and will explore in an interdisciplinary approach the ethical and social issues related to social business. Social business, itself, is cross-disciplinary, providing a basis for working together, transcending our differences across disciplinary lines, and envisioning creating a world without poverty.

Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

PR 440 Cr. 3.0
Violent Crime
Nature and distribution of violent crime in American society and other nations; causal theories of violence and factors correlated with violence; relationship between gender and violent crime; policy strategies to reduce violent victimization. The disciplines represented include: Biology, Psychology, and Sociology.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

PR 441 Cr. 3.0
Countercultures in American History
Explores countercultures in the United States from multiple-disciplinary perspectives including history, literature, and sociology. Elements from philosophy and psychology will also be included. The course will show that the counterculture in the 1960’s was just one historical manifestation of American historical movements that are anti-authoritarian and espouse personal and/or societal transformation/regeneration. By examining different groups, the course will show that countercultures have a legacy of change in American society.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

PR 442 Cr. 3.0
Modern Images, Irrational Thought
Philosophy from the time of Plato has been an evolution of ideas, one set replaced by another, in a dialogue that changes from what has become accepted as normal to an ever changing view derived from rational thought as it relates to the present and the projected future. As in Philosophy, Art has a cyclical evolution; 1) an initial intuitive leap of newness, 2) a refinement and loosely agreed upon normalcy and 3) a stage, for lack of better description, Istic, where nothing new is brought about and contributors either branch out or embellish what they can’t penetrate with a new leap. Through the two main disciplines of Art and Philosophy, the course will investigate changes in rationality in the late 19th Century and trace their movements and influences into the 21st.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

PR 443 Cr. 3.0
ESP, Yesterday and Today
From the first Paleolithic Shaman to Madam Marie on the Boardwalk in the 21st Century, civilizations have been fascinated by visionaries, mediums, psychics and those who claim to channel entities from alternative realities. Clairvoyance, Telepathy, Astral Projection and Psychokinesis are all part of the hidden, or sixth sense referred to as Telesthesia. The idea has surfaced and influenced mankind from Egyptian Soothsayers, the Oracle of Delphi, Revelations in the Bible, Nostradamus, Madam Blavatsky, Edgar Cayce and as recently as Jane Roberts in the late twentieth Century and is taking modern form in the concept of The New Age. Through the main disciplines of History and Psychology, this course will investigate the ever-changing social attitudes and beliefs concerning Extra Sensory Perception from the cave dwellers to the modern carnival.
Prerequisites: Ninety credits and successful completion of all other general education requirements.
Course Type(s): ISP

PR 444 Cr. 3.0
Leadership, Public Health, and Higher Education
The disciplines represented in this course are Education and Health Studies. Content focuses on problems, including social and ethical issues, encountered by leaders in Higher Education and Public Health. Topics will include leadership theories, practice, and evaluation. Prepares students to identify problems, research solutions, implement plans, and evaluate results that advance the mission of non-profit organizations committed to improving public health and institutions of Higher Education. Emphasis will be placed on issues involved in Higher Education and Public Health.
Prerequisites: Ninety credits and successful completion of all other general education requirements.
Course Type(s): ISP
Appendix A: Course Descriptions

PR 445 Cr. 3.0
Spike Lee and the Black Aesthetic in Perspective
An examination of race, gender, sexuality and class in the
 cinematic representations developed by Spike Lee in con-
 nexion with African American aesthetic values. Spike Lee
 has been classified by many as the most important (and
certainly most successful) African American filmmaker in
American history. The often controversial productions of
Lee have been extensively examined by critics and schol-
ars since his first film She’s Gotta Have It was released.
This class will consider various Spike Lee joints from mul-
tiple perspectives including history, communication stud-
ies, sociology, and gender studies. We will critically exam-
ine Lee’s work within the broad historical framework of
African American cultural history and in terms of his
engagement with controversial social, political, and eco-
nomic issues in American society in these films. The Lee
films will also be analyzed for the aestheticization of larg-
er historical, cultural, and social aspects of U.S. society.
The two main disciplines utilized in the course include his-
 tory and communication studies.
Prerequisites: Ninety credits and completion of all other
general education requirements.
Course Type(s): ISP

PR 446 Cr. 3.0
The Confessional Poets: Surviving Madness
An exploration of the works of key figures in the confes-
sional style of contemporary American poetry. These
poets suffered multiple levels of mental anguish and used
confessional poetry to share and heal their suffering, as
they attempted to survive their lives.
Prerequisites: Ninety credits and successful completion of
course general education requirements.
Course Type(s): ISP

PR 447 Cr. 3.0
A Graphic World: Sequential Art and World History
An interdisciplinary course that will use the perspectives
 of historical, literary, and artistic analysis to examine
important themes such as, but not limited to, nationalism,
inequality, industrialization, war, religion, or cultural dif-
fusion, through the medium of the graphic novel.
Prerequisites: Ninety credits and successful completion of
course general education requirements.
Course Type(s): ISP

PR 448 Cr. 3.0
Ecocriticism and Medieval England
An ecocritical study of historical documents and literary
texts in medieval England.

PR 449 Cr. 3.0
The Helping Professions in Film and Media
Provides students an opportunity to look at ethical and
social issues from a multidisciplinary perspective. Looks
at the helping professions (for example; teachers, coun-
selors and medical professions), how the codes of ethics
for these professions are similar but different, and how
these professions have been villianized and romanticized
in film.
Prerequisites: Ninety credits and completion of all other
general education requirements.
Course Type(s): ISP

PR 450 Cr. 3.0
Propaganda in America
An analytic study of persuasive texts central to the devel-
 opment of American values and attitudes. Advertisements,
tracts, and fiction will be placed in their
historic, international, and intellectual contexts. The disci-
 plines represented include rhetoric and literature.
Prerequisites: Ninety credits and completion of all other
general education requirements.
Course Type(s): none

PR 451 Cr. 3.0
Ethnic and Religious Conflicts and Their Political
Implications
Examines the relationship between ethnicity, nationalism
and violence. Focus will be on the formation and the caus-
es that ignite ethnic conflicts. Discussion of the political
tools and strategies to manage them as well as the role of
international communities in preventing and resolving these
conflicts. To understand the international implications of the
ethnic conflict we shall examine examples from around the
world but we shall focus mainly on five cases: Yugoslavia,
Rwanda, Ireland, Russia, and Palestine.
Prerequisites: Ninety credits and completion of all other
general education requirements.
Course Type(s): ISP

PR 452 Cr. 3.0
Understanding and Producing Theatre and its Role
in Modern Society
Designed to allow students to examine Theatre in intense
and very specific ways using and examining the literature
and visual arts aspects of theatre. The course content will
focus on the Summer season of the Shadow Lawn Stage
or an appropriate selection of plays during the academic year. Students will not only discuss in class the plays being performed, but will also have the experience of watching them being designed, constructed, and rehearsed.

Prerequisites: Ninety credits and completion of all other general education requirements.

Course Type(s): ISP

PR 453 Cr. 3.0
Censoring Culture: Banned and Burned in the USA
An interdisciplinary study of censorship in modern America. Utilizing the combined methodologies of history and literary criticism, broadly construed to include feminist and cultural theory, it will explore specific instances of censorship in art, literature and history in twentieth and twenty-first century American culture. It will focus on the reading of censored texts, novels, paintings, photographs, newspapers and film as cultural artifacts and probe the nuances and boundaries of freedom of speech and expression in a democratic society.

Prerequisites: Ninety credits and completion of all other general education requirements.

Course Type(s): ISP

PR 457 Cr. 3.0
Issues in Cognitive Science
Focuses in a number of key ideas about mental representations (i.e., logic, rules, concepts, and analogies) and contrasts how work in psychology (i.e., building computational models) helps us to evaluate their suitability as models of the human mind and of the nature of intelligence in general. Cognitive Science is an inherently interdisciplinary approach to the study of the mind and intelligence, drawing upon work in philosophy, psychology, artificial intelligence, neuroscience, linguistics and anthropology. The course will touch on many of these areas, but the focus is work in the disciplines of psychology and artificial intelligence. The course will also cover the ethical implications of work in cognitive science.

Prerequisites: Ninety credits and completion of all other general education requirements.

Course Type(s): ISP

PR 458 Cr. 3.0
The Meaning of Meaning
Focuses on the various perspectives about meaning that have developed in the philosophical literature and their applications to actual language use as uncovered by linguists and anthropologists. Efforts to understand the meaning of meaning have been carried out in a variety of disciplines: philosophy, psychology, literary studies, artificial intelligence, linguistics and anthropology. Although the course will touch on many of these areas, the focus is on the work in the disciplines of philosophy, linguistics, and anthropology. The course will also cover the social and ethical implications of the different approaches to the meaning of meaning.

Prerequisites: Ninety credits and completion of all other general education requirements.

Course Type(s): ISP

PR 460 Cr. 3.0
How Technology Affects Values
The correlation of values to technology, conceptualization of the interrelationships among science, technology, values, and society. Preparing to understand technical innovation, the impact of technical innovations on the quality of life, and the need for critical evaluation of societal matters involving the consequences of technology. The disciplines represented include History and Sociology.

Prerequisites: Ninety credits and completion of all other general education requirements.

Course Type(s): ISP

PR 470 Cr. 3.0
War and Peace
An exploration of the forces leading toward war and peace in our century. Through literature, history, and sociology, the course looks at the dynamics of the two world wars, the development and use of nuclear weapons and the subsequent arms race, and rapidly evolving, current situations, such as the dissolution of the Soviet Union, tensions in the Middle East, and the role of the United States in the New World Order. The disciplines represented in the course include Literature, History, and Sociology.

Prerequisites: Ninety credits and completion of all other general education requirements.

Course Type(s): none

PR 480 Cr. 3.0
The Spiritual Experience (In Literature and Philosophy)
Selected writings of religious literature and philosophy, including poetry, spiritual autobiography, meditations, and works of devotion and mysticism in the light of the cultural moment that produced them. Writings of both East and West, of men and women, and of varied cultures and historical eras. The disciplines represented include literature and philosophy.

Prerequisites: Ninety credits and completion of all other general education requirements.

Course Type(s): none
PR 490 Cr. 3.0

Revolution and Creative Response
Revolution and Creative Response will study three revolutions; the Industrial Revolution, the Soviet Revolution, and the South African Revolution - the historical conditions, the critical events and the central people. It will then analyze how certain artist responded or reacted to these. Combines elements of history and textual analysis (the methods used in the study of literature or film).
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

PR 495 Cr. 3.0

Coping with Conflict
Approaches to coping with conflict, drawn from the perspectives of law (focusing on negotiation and mediation) and of social psychology (focusing on processes of escalation, de-escalation, and settlement). Students will integrate these perspectives by devising strategies for dispute resolution in settings, such as the home, university, and the workplace. The disciplines represented include law and social psychology.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): none

PR 496 Cr. 3.0

Plant Biotechnology and Society
Students will learn and understand the principles of modern food production, with emphasis on plant biotechnology and ethics of genetically modified (GM) foods. In addition, the needs of growing world population and economical, sociological, and demographical aspects associated with present food production will be addressed. Presents an integrated view of plant biotechnology and its effects on society. The objective is to help students be able to better understand and evaluate the potential of GM foods in both developed and developing countries and to address the ethical questions of modern agriculture.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): none

PR 498 Cr. 3.0

Special Topics in Perspectives (400 Level)
An intensive study of a particular subject or problem in perspectives to be announced prior to registration.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): none

PR 499 Cr. 1.0 - 3.0

Independent Study in Perspectives
Guided research and in-depth study of a selected topic under the direction of a faculty member.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): none

PHILOSOPHY

PL 101 Cr. 3.0

Introduction to Philosophy
A historical-critical inquiry into the nature of the philosophical enterprise; the meaning of existence, knowledge and truth; and values in their religious, ethical, and aesthetic significance.
Course Type(s): none

PL 104 Cr. 3.0

Ethics
Theoretical ethics and its application to enduring and contemporary moral issues. Thorough examination of the basic principles of a rational, humane, and practical moral system. Also listed as Religious Studies 104.
Course Type(s): none

PL 106 Cr. 3.0

Elementary Logic
A consideration of valid reasoning as it relates to language and definition. Primary attention is given to discerning and identifying informal fallacies, techniques for determining the validity of inference, and the evolution of symbolic systems. Recommended for students preparing to take the GRE or LSAT.
Course Type(s): none

PL 198 Cr. 1.0 - 3.0

Special Topics in Philosophy (100 Level)
An intensive study of a particular subject or problem in philosophy to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PL 201 Cr. 3.0

Philosophy of Religion
An examination of certain salient features of Western religious thought, emphasizing the problems of religious language, the nature and validity of religious experience, tra-
ditional and contemporary ideas of God, morality, death, and evil. Also listed as Religious Studies 201.
Prerequisite: Philosophy 101.
Course Type(s): none

PL 202 Cr. 3.0
Great Issues in World Philosophy
An examination of great philosophical works from several cultural traditions. The course uses original works from Western, Indian, and Chinese civilizations to focus on philosophical approaches to a cluster of great issues while putting the philosophers and their works in historical context.
Course Type(s): none

PL 202H Cr. 3.0
Great Issues in World Philosophy
Critical investigation of some of the critical ideas and arguments that have been defended and promoted by thinkers in a variety of cultures. Open only to students in the Honors Program.
Course Type(s): CC, HO

PL 203 Cr. 3.0
Philosophy of Language
Investigation of questions about the concepts of language, meaning, and understanding. Consideration of some of the major contributions on these and related concepts. Also listed as Communication 203.
Course Type(s): none

PL 204 Cr. 3.0
Existentialism
Existentialism is about what it means to be an individual who has to create a meaning for his or her own life. Establish the context for existentialism within the history of philosophy as a whole, but also consider the impact that existentialist ideas have generally had in literature, art, and culture.
Course Type(s): none

PL 205 Cr. 3.0
Ethics and Literature
Explore the nature of ethical problems and theories through philosophy and literature.
Course Type(s): none

PL 210 Cr. 3.0
Philosophy in Film
An introduction to philosophy using films in conjunction

with traditional readings. Study some of the most important questions in the history of philosophy, such as: the nature of reality and its relationship to appearances, the nature of the self, human and artificial intelligence, the possibility of freedom, the nature of ethics, and the theory of meaning.
Course Type(s): none

PL 211 Cr. 3.0
Social and Political Philosophy
Comparative study of the philosophical assumptions underlying significant Western conceptions of social order and community.
Course Type(s): none

PL 216 Cr. 3.0
Religions and Philosophies of India
Introduction to the fundamental elements of the orthodox and non-orthodox philosophical and religious systems of India. Highlights plurality of timeless distinct gnostic systems that, having discovered the Self, search for liberation from the stream of time. Also listed as Religious Studies 216.
Course Type(s): CC, CD

PL 222 Cr. 3.0
Philosophy of Love and Friendship
A study of philosophical theories of love and friendship from the time of classical Greece to the twentieth century.
Course Type(s): none

PL 250 Cr. 3.0
History of Philosophy I
The beginning of philosophical speculation in Ionia, its golden age in Athens, the Roman interlude, and the flourish and decline of medieval philosophy.
Course Type(s): none

PL 260 Cr. 3.0
Informal Logic
An introduction to some of the most important principles of informal logic. Topics include: concepts, classification, definitions, propositions, argument structure, diagramming arguments, explanation, and fallacies.
Course Type(s): RD

PL 277 Cr. 3.0
Comparative Religions
Students are introduced to the fundamental differences and similarities of world religions that, throughout history,
were and are at war with each other. Highlights a plurality of distinct creeds that, postulating an Absolute Truth, search to regain that Ultimate Reality through various ways of life or moral codes. Also listed as Religious Studies 277.

Course Type(s): CC, GU

PL 298 Cr. 1.0 - 3.0
**Special Topics in Philosophy (200 Level)**
An intensive study of a particular subject or problem in philosophy to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PL 298H Cr. 1.0 - 3.0
**Special Topics in Philosophy (200 Level)**
An intensive study of a particular subject or problem in philosophy to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis. Only open to students in the Honors Program.
Course Type(s): HO

PL 305 Cr. 3.0
**Philosophy of Art**
Place of beauty and art in human life; standards of taste and aesthetic experience; classical and contemporary theories.
Course Type(s): none

PL 307 Cr. 3.0
**American Philosophy**
Classical and contemporary philosophical theories developed in the United States by such philosophers as Jonathan Edwards, Emerson, Royce, Santayana, James, Dewey, and Whitehead.
Prerequisite: Philosophy 101.
Course Type(s): none

PL 309 Cr. 3.0
**Seminar in Plato**
Against the background of pre-Socratic problems, the intensive study of selected dialogues with emphasis upon Plato's lasting contributions to Western philosophy.
Prerequisite: Philosophy 101.
Course Type(s): none

PL 316 Cr. 3.0
**The Modern Mind: From Descartes to the Present**
A systematic study of the central theses of philosophers and philosophical schools from early Continental Rationalism and British Empiricism to the contemporary patterns of philosophical thought.
Prerequisite: Three credits in Philosophy.
Course Type(s): none

PL 324 Cr. 3.0
**American Political Thought**
The development of political thought in the United States with emphasis on the late nineteenth- and twentieth-century philosophers and statesmen, along with the development of ideology of groups in American politics. Also listed as Political Science 324.
Prerequisite: Political Science 101 or 103.
Course Type(s): none

PL 340 Cr. 3.0
**Plato's Dialogues**
A critical study of Plato's dialogues, with a particular emphasis on the role that reasoned oral discourse plays in these texts.
Course Type(s): RD

PL 350 Cr. 3.0
**Multicultural Ethics**
A study of some of the most influential authors in the history of ethical history, and also feminist and multicultural criticism of those classic sources.
Course Type(s): CD

PL 360 Cr. 3.0
**Philosophy and Literature**
An exploration of the intersections of philosophy and literature with a particular focus on questions concerning the nature of authorship and moral authority.
Course Type(s): RD

PL 370 Cr. 3.0
**Multicultural Social and Political Philosophy**
A study of some of the most influential authors in the history of social and political philosophy, and also feminist and multicultural criticism of those classic sources.
Course Type(s): CD

PL 398 Cr. 1.0 - 3.0
**Special Topics in Philosophy (300 Level)**
An intensive study of a particular subject or problem in
philosophy to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PL 420 Cr. 3.0
The Philosophy of Speech and Writing
An investigation of several philosophical theories concerning the nature of speech and writing, and an exploration of how theories of speech and writing have affected both contemporary philosophy and contemporary culture.
Course Type(s): none

PL 490 Cr. 3.0
Seminar in Philosophy
Selected topics in which participating students present and discuss research papers.
Prerequisite: Approval of the philosophy faculty at the recommendation of the instructor.
Course Type(s): RD

PL 498 Cr. 1.0 - 3.0
Special Topics in Philosophy (400 Level)
An intensive study of a particular subject or problem in philosophy to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PL 499 Cr. 3.0
Individual Studies in Philosophy
Guided research on selected topics; conference with sponsoring professor.
Prerequisites: Junior standing, 12 credits of Philosophy, prior permission of the directing professor and department chair.
Course Type(s): none

PHYSICAL EDUCATION

PE 110 Cr. 1.0
Elementary Swimming
Includes stroke development, body positions, and improved general fitness.
Course Type(s): none

PE 112 Cr. 2.0
Lifeguard Certification/ Water Safety
Provides the skills and knowledge necessary to become an American Red Cross Lifeguard. Certification will be given to all students who meet the Red Cross Standards for Life Saving, Standard First Aid, and CPR for the Professional Rescuer.
Course Type(s): none

PE 114 Cr. 1.0
Advanced Swimming
Develop and practice advanced stroke technique and create swimming workouts.
Course Type(s): none

PE 116 Cr. 1.0
Badminton
Learn basic skills, history, rules and strategy for a single and double game in badminton.
Course Type(s): none

PE 117 Cr. 1.0
Ballroom Dance I
Provides a comprehensive foundation for both men and women to successfully perform on any social dance floor. The following Ballroom, Latin and Swing dances will be presented: Foxtrot, Salsa, Rumba, Waltz and East Coast Swing. The teaching method is demonstration and participation. A minimum of eighteen step patterns per dance will be introduced. In addition partner dance positions and keeping music tempos will be addressed.
Course Type(s): none

PE 118 Cr. 1.0
Ballroom Dance II
Provides a comprehensive foundation for both men and women to successfully perform on any social dance floor. The following Ballroom, Latin and Swing dances will be presented: Tango, Cha Cha, Nightclub and Hustle. The teaching method is demonstration and participation. A minimum of eight step patterns per dance will be introduced. In addition, partner dance positions and keeping music tempos will be addressed.
Course Type(s): none

PE 119 Cr. 1.0
Golf I
Introduces the basic golf fundamentals, such as basic swings, equipment, rules, terms of the game, drills, etiquette, and playing the course.
Course Type(s): none
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>PE 120</td>
<td>1.0</td>
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<tr>
<td>Golf II</td>
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<tr>
<td>Practicing more advanced skills in golf and playing the course.</td>
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<td>Course Type(s): none</td>
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<tr>
<td>PE 125</td>
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<tr>
<td>Tennis I</td>
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<tr>
<td>Learn basic skills and gain knowledge of rules and etiquette of the game of tennis.</td>
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<td>Course Type(s): none</td>
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<tr>
<td>PE 126</td>
<td>1.0</td>
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<tr>
<td>Tennis II</td>
<td></td>
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<tr>
<td>Practicing more advanced skills and learning technique and tactics in singles and doubles games in tennis.</td>
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<td>Course Type(s): none</td>
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<tr>
<td>PE 127</td>
<td>1.0</td>
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<tr>
<td>Volleyball</td>
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<tr>
<td>Learn the rules and recreational skills of volleyball.</td>
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<td>Course Type(s): none</td>
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<tr>
<td>PE 128</td>
<td>1.0</td>
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<tr>
<td>Yoga</td>
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<tr>
<td>Learn and practice basic styles of Hatha Yoga. It will include yoga exercises, breathing technique, relaxation, and meditation.</td>
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<td>Course Type(s): none</td>
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<tr>
<td>PE 130</td>
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<tr>
<td>Basketball</td>
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<tr>
<td>Students are provided with learning experiences that will serve as a basic foundation for teaching the team sport of basketball. The main emphasis will be placed on skill acquisition with focus on specific movements and techniques important to game play. The analysis of skills, rules, safety consideration and strategy of play will be covered.</td>
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<tr>
<td>Course Type(s): none</td>
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<tr>
<td>PE 131</td>
<td>1.0</td>
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<tr>
<td>Soccer</td>
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<tr>
<td>Students are provided with learning experiences that will serve as a basic foundation for teaching the team sport of soccer. The main emphasis will be placed on skill acquisition with focus on specific movements and techniques important to game play. The analysis of skills, rules, safety consideration and strategy of play will be covered.</td>
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<tr>
<td>Course Type(s): none</td>
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<tr>
<td>PE 132</td>
<td>1.0</td>
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<tr>
<td>Softball</td>
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<td>Students are provided with learning experiences that will serve as a basic foundation for teaching the team sport of softball. The main emphasis will be placed on skill acquisition with focus on specific movements and techniques important to game play. The analysis of skills, rules, safety consideration and strategy of play will be covered.</td>
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<td>Course Type(s): none</td>
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<tr>
<td>PE 142</td>
<td>1.0</td>
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<tr>
<td>Pilates</td>
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<td>Designed for core-muscle, physical conditioning by applying the Pilates exercise program.</td>
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<td>Course Type(s): none</td>
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<td>PE 143</td>
<td>1.0</td>
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<tr>
<td>Jogging</td>
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<tr>
<td>Develop and practice running or jogging conditioning program.</td>
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<td>Course Type(s): none</td>
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<tr>
<td>PE 144</td>
<td>1.0</td>
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<tr>
<td>T’ai Chi</td>
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<tr>
<td>Relieves stress and improves balance, coordination, muscle tone, posture, and flexibility through the practice of T’ai Chi. Often called meditation in motion, this ancient Chinese form of exercise blends graceful flowing movements with breathing and relaxation techniques. Students will learn proper form and technique for a variety of movements, eventually combining them into a complete sequence. Particular emphasis will be placed on the use of T’ai Chi to reduce stress and anxiety.</td>
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<tr>
<td>Course Type(s): none</td>
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<tr>
<td>PE 156</td>
<td>1.0</td>
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<tr>
<td>Aerobics</td>
<td></td>
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<tr>
<td>Learn and practice low- and high-impact aerobic activities.</td>
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<tr>
<td>Course Type(s): none</td>
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<tr>
<td>PE 161</td>
<td>1.0</td>
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<tr>
<td>Self Defense</td>
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<tr>
<td>Designed to give the student an opportunity to experience physical activity through martial arts training at an introductory level.</td>
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<tr>
<td>Course Type(s): none</td>
<td></td>
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<tr>
<td>PE 163</td>
<td>1.0</td>
</tr>
<tr>
<td>Weight Training</td>
<td></td>
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<tr>
<td>Develop and practice an individualized, weight-training</td>
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</table>
program using free weights and resistance machines.
Course Type(s): none

**PE 168**
**Stress Reduce Relax**
Learn and practice breathing, progressive relaxation, visualization, autogenic training, and other relaxation techniques to reduce your stress.
Course Type(s): none

**PE 198**
**Special Topics in Physical Education**
An intensive study of a particular subject in physical education to be announced prior to registration.
Prerequisite: As announced in the course schedule.
Course Type(s): none

**PE 199**
**Independent Study in Physical Education**
Focus on an area in Physical Education under the direction of a Physical Education faculty member.
Prerequisite: Prior permission of the directing professor and department chair required.
Course Type(s): none

**PE 201**
**Safety and First Aid**
Safety problems that affect the individual, the community, and the nation; a standard course in first aid, including adult CPR and Red Cross Certification for those who qualify.
Course Type(s): HE.EL, HEPE

**PE 220**
**Exercise Physiology**
A scientific foundation for understanding the physiological response and adaptation to exercise training. A comprehensive study of basic theories and practical applications of exercise physiology principles to physical education and sports performance. Focus on metabolic, cardiovascular-respiratory, neuromuscular-skeletal and endocrine systems as they relate to acute and chronic responses to exercise. Environmental concerns, cardiovascular disease risk factors and the immune response to exercise.
Prerequisites: Biology 111 and 112.
Course Type(s): none

**PE 230**
**Biomechanics/ Kinesiology**
Introduction to the major principles of biomechanics, providing students with foundational knowledge that allows for the systematic analysis of human movement.
Emphasis is placed on analyzing key forces and movement in the context of sport and exercise.
Prerequisites: Biology 111 and 112.
Course Type(s): none

**PE 310**
**Sport and Exercise Psychology**
Explores the psychological determinants and consequences of physical activity, with an emphasis on psychological factors relevant to enhancing sport performance. Students will also analyze key theories in exercise psychology in order to understand exercise’s influence on psychological health outcomes.
Prerequisite: Psychology 103.
Course Type(s): none

**PE 340**
**Motor Development and Learning**
Introduces students to the fundamental concepts of motor learning and development changes in human movement that occur over the lifespan. Basic research findings and applications of general human growth principles are discussed in relation to the development and acquisition of motor skills. Emphasis will also be placed on theoretical foundations for understanding motor learning principles that can be applied to the teaching and learning of physical activities.
Prerequisites: Biology 111 and 112.
Course Type(s): none

**PE 351**
**Prevention and Care of Athletic Injuries**
Basic information and skills for the care and prevention of athletic injuries.
Course Type(s): HE.EL, HEPE

**PE 360**
**Coaching Courses**
Theory and practice of teaching/coaching selected sports: basketball, soccer, track and field, baseball, softball, field hockey, and ice hockey.
Course Type(s): none

**PE 499**
**Independent Study in Physical Education**
Reading and research on a selected topic under the direction of a Physical Education faculty member.
Course Type(s): none
PHYSICS

PH 101 Cr. 3.0
*Issues and Methods in Physics*
Major concepts and methodologies in physics and their importance in today's society. Introduction to principles of physics and their applications to today's technology using lectures and demonstration.
Prerequisite: Science 100.
Course Type(s): none

PH 103 Cr. 3.0
*The Physics of Sound and Music*
Presents the topics of sound and music from a physics point of view. Covered topics are harmonic motion, waves (both traveling and standing), the human voice and ear, the production of music and musical scales and the physics of several representative instruments.
Course Type(s): none

PH 105 Cr. 3.0
*Physics for the Life Sciences I*
An introduction to classical physics intended primarily for students majoring in the life sciences. Topics include: mechanics, dynamics, heat, electricity, magnetism, and optics.
Prerequisite or Corequisite: Mathematics 101, 109, 115, or a higher-level mathematics course. Corequisite: Physics 105L.
Course Type(s): none

PH 105L Cr. 1.0
*Physics for the Life Sciences Laboratory I*
Laboratory work to complement Physics 105. Experiments in the fields of statics, dynamics, energy, momentum, heat, sound, electricity, magnetism, optics, and spectroscopy. Three hours per week.
Corequisite: Physics 105.
Course Type(s): none

PH 106 Cr. 3.0
*Physics for the Life Sciences II*
An introduction to classical physics intended primarily for students majoring in the life sciences. Topics include: mechanics, dynamics, heat, electricity, magnetism, and optics.
Prerequisites: Physics 105 and 105L, both passed with a grade of C- or higher.
Corequisite: Physics 106L.
Course Type(s): none

PH 106L Cr. 1.0
*Physics for the Life Sciences Laboratory II*
Laboratory work to complement Physics 106. Experiments in the fields of statics, dynamics, energy, momentum, heat, sound, electricity, magnetism, optics, and spectroscopy. Three hours per week.
Corequisite: Physics 106.
Course Type(s): none

PH 150 Cr. 3.0
*Principles of Astronomy*
The historical development of astronomy and the modern concepts of the universe, including demonstrations and viewing sessions with optical telescopes.
Course Type(s): none

PH 170 Cr. 3.0
*Physical Oceanography*
Physical Oceanography provides an understanding of the basic concepts associated with the sciences related to the field of oceanography. Students will become familiar with physical, chemical, and geographical processes occurring in the ocean and coastal zone.
Prerequisite: Three credits of Biology, Chemistry or Physics.
Course Type(s): ME, MEBP

PH 198 Cr. 1.0 - 3.0
*Special Topics in Physics (100 Level)*
An intensive study of a particular subject or problem in physics to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PH 211 Cr. 4.0
*General Physics with Calculus I*
The first of a two-semester sequence of courses which, taken together, provide a thorough introduction to classical physics using calculus. Topics covered include: one-and two-dimensional motion, Newton's laws and their applications, energy, momentum and impulse, rotational motion, gravitation, and thermodynamics.
Prerequisite: Mathematics 125.
Corequisite: Physics 211L.
Course Type(s): none
Appendix A: Course Descriptions

PH 211L Cr. 1.0
*General Physics with Calculus Laboratory I*
Laboratory experiments to complement the topics covered in Physics 211. Includes experiments in statics, dynamics, and thermodynamics.
Corequisite: Physics 211.
Course Type(s): none

PH 212 Cr. 4.0
*General Physics with Calculus II*
The second of a two-semester sequence of courses which, taken together, provide a thorough introduction to classical physics using calculus. Topics covered include: sound and wave mechanics, electrostatics, circuits, magnetic forces and fields, Faraday's Law, reflection and refraction, and optics.
Prerequisites: Mathematics 126, Physics 211 and 211L, all passed with a grade of C- or higher. Corequisite: Physics 212L.
Course Type(s): none

PH 212L Cr. 1.0
*General Physics with Calculus Laboratory II*
Laboratory experiments to complement the topics covered in Physics 211. Includes experiments in sound, electricity, magnetism, circuits, and optics.
Corequisite: Physics 212.
Course Type(s): none

PH 298 Cr. 1.0 - 3.0
*Special Topics in Physics (200 Level)*
An intensive study of a particular subject or problem in physics to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PH 302 Cr. 3.0
*Applied Physics*
Intermediate-level topics and applications from the fields of classical mechanics, electricity and magnetism, and classical, geometric, and wave optics. A calculus-based course, which also introduces the use of ordinary and partial differential equations in physics applications.
Prerequisites: Physics 212 and 212L, and Mathematics 126, all passed with a grade of C- or higher.
Course Type(s): none

PH 398 Cr. 1.0 - 3.0
*Special Topics in Physics (300 Level)*
An intensive study of a particular subject or problem in physics to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PH 399 Cr. 3.0
*Independent Study in Physics*
Reading and research on a selected topic under the direction of a Physics faculty member.
Course Type(s): none

POLICY STUDIES

PO 330 Cr. 3.0
*Environmental Policy*
Introduces social, political, and organizational processes that influence and shape environmental and natural-resource policy. Focus on the political arena and examine how citizens and community groups influence legislative initiatives. Also listed as Political Science 330.
Course Type(s): PO, PSAM, PSPA, SUS

PO 350 Cr. 3.0
*American Political Economy*
Examination of the institutional, economic, and political factors that influence the economic decision-making process at all levels of government. Analysis of the theories, processes, principles, and concepts of public budgeting and governmental management of the economy. Also listed as Political Science 350.
Prerequisite: Political Science 103.
Course Type(s): PO
PO 402 Cr. 3.0
Internship Seminar in Policy Studies
Supervised, practical experience in policy studies; emphasis on policy process, research, evaluation, and analysis.
Prerequisites: Completion of ninety credits, director approval, and placement.
Course Type(s): EX, PO

PO 499 Cr. 3.0
Independent Study in Policy Studies
Directed individual study of Policy Studies in areas of special interest.
Prerequisite: Prior permission of the directing professor and department chair.
Course Type(s): none

POLITICAL SCIENCE

PS 101 Cr. 3.0
Introduction to Political Science: Power and Globalization
Readings and assignments give students a foundation in two subfields of Political Science - Comparative Politics and International Relations. Prepares students for elective courses focused on specific global issues (International Organizations, International Political Economy, Ethics and International Relations, International Security Issues, and Revolutions and Nationalism) as well as on cross-national comparative politics of Europe, Asia, the Middle East and Latin America.
Course Type(s): SS.SV

PS 103 Cr. 3.0
American National Government
A survey of United States government, emphasizing the Constitution, functions of political parties, pressure groups, the relationships of citizens to the government, the development of administrative control, and problems unique to each of the three branches of government.
Course Type(s): SS.SV

PS 105 Cr. 3.0
Introduction to Public Policy
Analysis of policy-making processes in American society, including health care, the environment, education, crime, and employment; application of competing perspective and value orientation to policy areas; impact on specific groups within American society and the global community.
Also listed as Policy Studies 105.
Course Type(s): MEBP, PO, PSPA, SS.SV

PS 109 Cr. 1.0
Civic Engagement and Leadership
Civic responsibility, engagement, and leadership are encouraged through active student involvement in a community or campus organization. Students will perform twelve hours of public service over the course of the semester working for an organization that addresses a particular issue of public concern. Also listed as Sociology 109.
Course Type(s): none

PS 198 Cr. 1.0 - 3.0
Special Topics in Political Science (100 Level)
An intensive study of a particular subject or problem in political science to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PS 202 Cr. 3.0
State and Local Government
A comparative study of state, local, and suburban politics in the United States with special emphasis on New Jersey and the New Jersey-New York metropolitan area.
Prerequisites: Political Science 101 or 103; and English 101 and 102 or permission of the instructor.
Course Type(s): PSAM, WT

PS 212 Cr. 3.0
Workshop in NJ’s County Pre-Trial Prosecution System: Legal and Political Aspects
Legal and political analysis of New Jersey’s pretrial prosecution process. The roles, pressures, attitudes, and strategies of the county prosecution system personnel will be subjects for field research seminar study.
Course Type(s): PSAL, PSAM

PS 221 Cr. 3.0
Early Political Thought
Consideration of the major political theories of the western world and their relevance to contemporary politics. Semester I: Plato to Marx. Semester II: later nineteenth- and twentieth-century political thinkers, with special emphasis on the behavioral school.
Prerequisites: Political Science 101 or 103; and English 101 and 102 or permission of the instructor.
Course Type(s): WT
PS 222  Cr. 3.0
Modern Political Thought
Consideration of the major political theories of the western world and their relevance to contemporary politics.
Semester I: Plato to Marx. Semester II: later nineteenth- and twentieth-century political thinkers, with special emphasis on the behavioral school.
Prerequisites: Political Science 101 or 103; and English 101 and 102 or permission of the instructor.
Course Type(s): WT

PS 250  Cr. 3.0
Social Science Research and Writing
An introduction to the different ways in which social scientists study the social world. Designed to develop students' understanding of the major purposes of social research as well as the major types of quantitative and qualitative research designs. Students will learn the research process itself, from conceptualization and measurement to operationalization, sampling, ethics, and the analysis and presentation of their proposed study. As part of the research process, students will use spreadsheet, presentation, and word processing software to build datasets, analyze data, and design and present research. Also listed as Sociology 250.
Course Type(s): TL

PS 274  Cr. 3.0
Global Inequalities
A sociological and political look at global inequalities. Explores diverse themes and aspects of a global society, including the forces that are causing and perpetuating global inequalities. It also looks at the social, political, economic, and cultural consequences of those inequalities. Also listed as Sociology 274.
Prerequisite: Political Science 101 or Sociology 101.
Course Type(s): GLS, GU, SUS

PS 275  Cr. 3.0
Politics and Policy of Latin America
Introduces students to the critical political issues and challenges in Latin America, a geographic region that includes Mexico, Central America, the Caribbean and South America. Hemisphere integration continues to accelerate, and political developments south of the border increasingly impact the United States. Immigration, trade, drugs, and the environment require hemisphere collaboration among a diverse set of peoples and governments. Surveys contemporary politics and economics, as well as the basic regional history in a way that invites comparison and the development of regional (Southern Cone, Andean Region, Central America, Caribbean) and hemispheric perspectives on the challenges linked to hemispheric integration.
Course Type(s): PSCG

PS 277  Cr. 3.0
Gender and Politics
The study of gender and how it relates to politics.
Includes an analysis of the women's movement through historical literature by and about women. Also includes feminist and gender theories, the mass behavior of women, elite women, and public policy as it relates to women's issues.
Course Type(s): GS, PSAM

PS 281  Cr. 3.0
International Relations
The major theoretical concepts and issues of international relations, emphasizing theories, actors, structures, ideologies, and environment of international politics.
Prerequisite: Political Science 101 or 103 or permission of the instructor.
Course Type(s): PSIP

PS 288  Cr. 3.0
Cooperative Education: Political Science
Through actual work experience; connects classroom learning and real-world practice. Under the guidance of a faculty advisor, students select a cooperative placement. Students will spend ten to fifteen hours per week at their placement. Repeatable for credit.
Prerequisite: Political Science 101 or 103.
Course Type(s): EX2

PS 289  Cr. 3.0
Political Science Internship
An internship in a political office. The student will keep a daily log and develop a research topic on the basis of the log and experience. By working an eight-hour day from Monday through Friday, the intern will develop firsthand knowledge of a state or local office and will secure an experience rating for future positions after graduation.
Prerequisites: Political Science 101 or 103 and the completion of sixty credits.
Course Type(s): EX

PS 290  Cr. 3.0
Media Law
How the mass media is constrained and protected by the law and court interpretation. Overview will focus on libel, copyright, obscenity, free press, and other legal/illegal
aspects. Also listed as Communication 290.
Course Type(s): PSAL

**PS 298**
Cr. 1.0 - 3.0

*Special Topics in Political Science (200 Level)*
An intensive study of a particular subject or problem in political science to be announced prior to registration.
May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

**PS 299**
Cr. 1.0 - 3.0

*Reading and Research in Political Science*
Guided study of a topic in political science not substantially treated in a regular course, under the direction of a member of the political science faculty. Extensive reading and at least one written report are required.
Course Type(s): none

**PS 301**
Cr. 3.0

*Political Parties and Elections*
Historical and functional analysis of United States political parties; the workings of party machinery and practical politics, including national, state, and local party activities, election procedures, third party movements, interest groups, and public opinion.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSAM

**PS 304**
Cr. 3.0

*Public Opinion and Propaganda*
The effects of mass communications upon political opinion, control of news, dissemination agencies, propaganda techniques, and pressure groups; the role of opinion polls and survey techniques.
Prerequisite: Political Science 101 or 103.
Course Type(s): none

**PS 305**
Cr. 3.0

*The American Congress*
An analysis of the structure, organization, and functioning of Congress; the relationship between Congress and the executive and judicial branches of government, the importance of the Congressional investigative powers and of quasi-legislative agencies, boards and commissions.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSAM

**PS 306**
Cr. 3.0

*The American Presidency*
The various theories of the presidency; the president's relationship with Congress, the public, the party structure, the administration, and the vice-president; and the president's powers and responsibilities in foreign and military affairs.
Prerequisites: Political Science 101 or 103; and English 101 and 102 or permission of the instructor.
Course Type(s): PSAM, WT

**PS 309**
Cr. 3.0

*Political Science Internship Seminar*
Practical experience in the operation of a legal, political campaign, or government position to guide the intern's future professional development. The student will keep a journal and produce a report analyzing the intern's experience and/or work environment. Repeatable for credit.
Prerequisite: Junior standing or permission of the instructor.
Course Type(s): EX

**PS 311**
Cr. 3.0

*Introduction to Constitutional Law*
Examination of United States constitutional law by the case method: the federal government and the relative powers of Congress, the President, and the Supreme Court.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSAL

**PS 312**
Cr. 3.0

*Constitutional Law: Civil Rights*
Examination of United States constitutional law by the case method: Constitutional, civil, and political liberty with special emphasis on the First, Fifth, and Fourteenth Amendments.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSAL

**PS 313**
Cr. 3.0

*The Pre-Trial Prosecution System*
The pre-trial prosecution process as a political system. The roles, attitudes, and strategies of those authorities who allocate values within the system are examined. Also listed as Criminal Justice 313.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSAL
PS 315 Cr. 3.0
*Urban Politics*
The problems of urban life as they are manifested in the political process, the interaction of cities with other levels of government, and the performance of political functions within the urban environment.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSAM, PSPA

PS 324 Cr. 3.0
*American Political Thought*
The development of political thought in the United States, with emphasis on the late nineteenth- and twentieth-century philosophers and statesmen, along with the development of ideology of groups in American politics. Also listed as Philosophy 324.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSAM

PS 330 Cr. 3.0
*Environmental Policy*
Introduces social, political, and organizational processes that influence and shape environmental and natural resource policy. Focus on the political arena and examine how citizens and community groups influence legislative initiatives. Also listed as Policy Studies 330.
Course Type(s): MEBP, PSAM, PSPA, SUS

PS 335 Cr. 3.0
*American Political Economy*
Examines the institutional, economic, and political factors that influence the economic decision-making process at all levels of government. Analysis of the theories, processes, principles, and concepts of public budgeting and governmental management of the economy. Also listed as Policy Studies 350.
Prerequisite: Political Science 103.
Course Type(s): PO, PSAM, PSPA

PS 350 Cr. 3.0
*Public Administration*
The administration, organization, management, financial, and personnel problems within the various governmental agencies; problems arising from the interrelations of the three branches of government.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSPA

PS 352 Cr. 3.0
*Public Personnel Administration*
The nature of the career service in government, effective tools in personnel administration, and the changing role of the Civil Service Commission.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSPA

PS 353 Cr. 3.0
*Public Budgeting Process*
A treatment of the budget as an instrument of public policy and marginal control of public programs.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSPA

PS 355 Cr. 3.0
*Administrative Law and Regulation*
The federal and state regulatory agencies, commissions, and boards; how they function, the legal procedures they employ, to what extent they are successful in serving and protecting the community, and efforts to affect their reform.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSAL, PSPA

PS 361 Cr. 3.0
*Comparative European Governments*
A comparative analysis of political processes in Western-European governments, with special emphasis on the methodology of comparative politics.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSCG

PS 364 Cr. 3.0
*Law and Society*
The evolution of law, social forces influencing law, social impact of law, and law as an instrument of social control and social change. Also listed as Sociology 364.
Prerequisite: Sociology 101 or Political Science 101 or 103.
Course Type(s): none

PS 371 Cr. 3.0
*International Service Seminar*
Students will learn to unite theory and practice by studying theories and policies based on human security, and learning about their applications through service-learning projects. Students will enhance their understanding of human security by volunteering in international community organizations and reflecting on the social, political, and economic factors and policies that affect them. Also listed as Social Work 371.
Appendix A: Course Descriptions

Prerequisite: Political Science 101.
Course Type(s): EX5, PSIP

PS 372 Cr. 3.0
Democracy in South Asia
Explores the prospects of democracy in South Asia with a focus on India, Pakistan, Afghanistan, Nepal, Bangladesh, and Sri Lanka. Provides the historical depth, cultural complexity, and the comparative context in which to understand historical legacies and contemporary issues challenging democracy in South Asia.
Course Type(s): CC, PSCG

PS 373 Cr. 3.0
Comparative Politics in Asia
Comparative study of the political processes of selected Asian nations with emphasis on problems arising as a result of the transition from traditional societies to modern nation states.
Prerequisite: Political Science 101 or 103.
Course Type(s): CC, PSCG

PS 375 Cr. 3.0
Islam and Politics
Examination of the interrelationship between Islam as a religion and a way of life and politics in different regions of the world. Following a quick survey of the belief and practice of Islam since its inception, the focus will be placed on the past 100 years, particularly the Muslim responses to the challenges of colonialism, modernization, and globalization and Islam’s reassertion in public affairs and society. Concludes with ways for improving Islam-West relations in the hope that these will generate better understanding and peace. Also listed as Religious Studies 375.
Course Type(s): CC, PSCG

PS 376 Cr. 3.0
Comparative Politics of the Middle East
Comparative study of the political processes of selected Middle-Eastern nations with an emphasis on problems arising as a result of the transition from traditional societies to modern nation states.
Course Type(s): CC, PSCG

PS 377 Cr. 3.0
A Comparative Study of Women in the World
A comparative study of the political, cultural, social, and economic statuses of women in the United States, Western Europe, Russia, Japan, Israel, and Third-World nations. Also listed as Gender Studies 377.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): CC, GS, GU, PSCG, WT

PS 378 Cr. 3.0
Ethics in International Relations
Create a learning environment that stresses the understanding of ethics and its necessary role in the contemporary world. Through an evaluation of peace theories, patterns of diplomacy, and conflict in international relations, the learner will realize that ethical considerations are essential to the human experience.
Prerequisite: Political Science 101.
Course Type(s): PSIP

PS 382 Cr. 3.0
International Organizations
The nature, functions, and development of international organizations with particular emphasis on the United Nations and its role in international relations.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSIP, PSPA

PS 383 Cr. 4.0
Model UN Conference
Introduces students to how the United Nations works and will give them real-life experience in how countries bargain, negotiate, and resolve conflicts. It is a blend of theoretical/historical knowledge and practical/experiential components. The practical/experiential components will include taking part in actual negotiations at a collegiate-level Model United Nations conference. Experiential Education credit will only be given upon completion of the model U.N. conference. Repeatable for credit at the discretion of the department.
Prerequisites: Political Science 101 and Humanities 201.
Course Type(s): EX, PSIP

PS 385 Cr. 3.0
American Foreign Policy
A study of American foreign policy with emphasis on the theoretical framework and institutional setting of the contemporary policymaking process.
Prerequisite: Political Science 101 or 103.
Course Type(s): PSIP, PSPA

PS 388 Cr. 3.0
Cooperative Education: Political Science
Classroom learning and real-world practice are connected
through actual work experience. Under the guidance of a faculty advisor, students select a cooperative placement. Students will spend ten to fifteen hours per week at their placement. Repeatable for credit.

Prerequisite: Political Science 101 or 103.
Course Type(s): EX

PS 389 Cr. 3.0
Political Science Internship
An internship in a political office. The student will keep a daily log and develop a research topic on the basis of the log and experience. By working an eight-hour day from Monday through Friday, the intern will develop firsthand knowledge of a state or local office and will secure an experience rating for future positions after graduation.
Prerequisites: Political Science 101 or 103 and completion of sixty credits.
Course Type(s): EX

PS 390 Cr. 7.0 - 12.0
Washington Center Internship
Internship. Also listed as Communication 390.
Prerequisites: Junior standing and a minimum GPA of 2.50.
Course Type(s): EX

PS 393 Cr. 3.0
Washington Center Course
Students participating in a Washington Center internship are required to enroll in a three credit seminar. A list of available courses is forwarded to all students prior to the beginning of the fall, spring, or summer term. Regular offerings include: politics, professional communication, the fine and performing arts, and economics. Also listed as Communication 393.
Prerequisites: Junior standing and a minimum GPA of 2.50.
Course Type(s): none

PS 398 Cr. 1.0 - 3.0
Special Topics in Political Science (300 Level)
An intensive study of a particular subject or problem in political science to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PS 399 Cr. 3.0
Independent Study in Political Science
Guided study of a topic in political science not substantially treated in a regular course, under the direction of a member of the political science faculty. Extensive reading and at least one written report are required.
Course Type(s): none

PS 401 Cr. 3.0
Seminar in Political Science
Review of research methods and significant developments in political science. An individual research project, assigned according to the interest and needs of the student, is required.
Prerequisites: Political Science 101 or 103.
Course Type(s): none

PS 425 Cr. 3.0
Political Communication
The impact of communication on political action. Persuasive strategies and mediated reality that affects political choices. Focus on the interpretation of political rhetoric and the role media plays in campaigns. Also listed as Communication 425.
Course Type(s): PSAM

PS 488 Cr. 3.0
Cooperative Education: Political Science
Classroom learning and real-world practice are connected through actual work experience. Under the guidance of a faculty advisor, students select a cooperative placement. Students will spend ten to fifteen hours per week at their placement. Repeatable for credit.
Prerequisite: Political Science 101 or 103.
Course Type(s): EX

PS 489 Cr. 3.0
Political Science Internship
An internship in a political office. The student will keep a daily log and develop a research topic on the basis of the log and experience. By working an eight-hour day from Monday through Friday, the intern will develop firsthand knowledge of a state or local office and will secure an experience rating for future positions after graduation.
Prerequisites: Political Science 101 or 103 and completion of sixty credits.
Course Type(s): EX

PS 498 Cr. 1.0 - 3.0
Special Topics in Political Science (400 Level)
An intensive study of a particular subject or problem in political science to be announced prior to registration. May be conducted on either a lecture-discussion or a
PS 499 Cr. 3.0
Readings and Research in Political Science
Guided study of a topic in political science not substantially treated in a regular course, under the direction of a member of the political science faculty. Extensive reading and at least one written report are required.
Prerequisites: Senior standing; status as Political Science or History and Political Science major with a 3.00 or higher GPA in major coursework; prior permission of directing professor and department chair.
Course Type(s): none

PSYCHOLOGY

PY 103 Cr. 3.0
Introduction to Psychology
The scientific study of behavior and mental processes, including motivation, emotion, intelligence, maturation, learning, personality, perception, and thinking.
Course Type(s): SS.SV

PY 151 Cr. 3.0
Life-Span Development
Major theories of physical, cognitive, social, and personality development covering the period from conception to death. May not be used to satisfy Psychology major requirements.
Prerequisite: Psychology 103.
Course Type(s): none

PY 198 Cr. 1.0 - 3.0
Special Topics in Psychology (100 Level)
An intensive study of a particular subject or problem in psychology to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PY 201 Cr. 3.0
Educational Psychology
The application of principles and theories designed for psychology students, prospective teachers, and parents interested in educational processes. Also listed as Education 201.
Prerequisite: Psychology 103.
Course Type(s): none

PY 202 Cr. 1.0
Career Preparation in Psychology
An orientation to career opportunities available with a background in psychology as well as preparation for employment and graduate/professional training in psychology. For Psychology majors only.
Course Type(s): none

PY 203 Cr. 3.0
Child Psychology
Physical and mental development from conception to early adolescence; motor, emotional, and social behavior; intelligence and language development; personality formation; play and other imaginative activities. Also listed as Education 203.
Prerequisite: Psychology 103.
Course Type(s): NU.EL

PY 204 Cr. 3.0
Adolescent Psychology
Students are given up-to-date knowledge of the field of developmental psychology in general but particularly focuses on issues that are relevant to individuals as they transition from being children to young adolescents; as they go through the physical, emotional, cognitive, and social changes of adolescence; and finally as they experience emerging adulthood. It will enable students to understand, contrast, and critically evaluate various developmental theories that apply to adolescent development. Both the normative patterns of adolescent development and individual variability within these norms are covered.
Prerequisite: Psychology 103.
Course Type(s): NU.EL

PY 205 Cr. 3.0
Psychology of Adulthood and Aging
Development from mid-life to old age; physical, intellectual, social, emotional, and personality changes, interests, attitudes, and maladjustments with emphasis on later life.
Prerequisite: Psychology 103.
Course Type(s): none

PY 206 Cr. 3.0
Child and Adolescent Development
An introduction to the field of human development. Concepts and theories of child and adolescent growth and development will be covered from the prenatal period through adolescence.
Prerequisite: Psychology 201.
Course Type(s): none
Appendix A: Course Descriptions

PY 207 Cr. 3.0
Social Psychology
A survey of human behavior and mental processes in their social context. Addresses interpersonal processes, including social influence, relationships, prosocial and antisocial behavior, prejudice, and group dynamics. Also addresses intrapersonal processes, including the self, social perception, social cognition, cognitive dissonance, and attitudes.
Prerequisite: Psychology 103.
Course Type(s): none

PY 208 Cr. 3.0
Abnormal Psychology
The principal forms of psychopathology, including symptoms, etiology, and therapeutic recommendations; borderline adjustment, neurosis, psychosis, and character disorders.
Prerequisite: Psychology 103.
Course Type(s): none

PY 220 Cr. 4.0
Research Methods in Psychology and Laboratory
Introduces students to the essence of the scientific method and the use of empirical inquiry. Students will be introduced to various issues concerning data collection and other method procedures used in psychology. Students will learn to appropriately summarize, describe, and analyze obtained data to test research hypotheses.
Prerequisite: Psychology 103 and Mathematics 101, or Mathematics 105 or higher; and English 101 and 102 or permission of the instructor.
Course Type(s): TL, WT

PY 222 Cr. 3.0
Industrial Psychology
The application of psychological principles to human problems in business and industry: personnel psychology, counseling, motivation, supervision, organizational structure, efficiency, and engineering psychology.
Prerequisite: Psychology 103.
Course Type(s): none

PY 230 Cr. 3.0
History of Psychology
The historical development of psychology, including its relationship to other disciplines; the contributions of philosophy and the growth of scientific methodology.
Prerequisite: Psychology 103.
Course Type(s): none

PY 288 Cr. 3.0
Cooperative Education: Psychology
Provides students with an opportunity to apply classroom theory in practice through actual work experience. Placements are selected to forward the student’s career interest through experiential education. Repeatable for credit.
Prerequisites: Completion of thirty credits and a minimum GPA of 2.00.
Course Type(s): EX

PY 298 Cr. 1.0 - 3.0
Special Topics in Psychology (200 Level)
An intensive study of a particular subject or problem in psychology to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PY 301 Cr. 3.0
Psychology of Learning
Basic issues and methods in the scientific study of learning, with attention to major theories about mental and neural processes in conditioning, skill learning, and various types of cognitive learning and memory.
Prerequisite: Psychology 103.
Course Type(s): none

PY 302 Cr. 3.0
Memory and Cognition
Scientific study of mental processes, especially pertaining to the acquisition, retention, and use of knowledge and mental skills. Emphasis on memory, imagery, and natural language, with limited attention to developmental and individual differences.
Prerequisite: Psychology 103.
Course Type(s): none

PY 302L Cr. 1.0
Memory and Cognition Laboratory
Techniques for the experimental study of memory, thought, and language processes. Includes pattern recognition, serial recall, memory organization, imagery, decision-making, and story schematization.
Prerequisites: Psychology 311 and 320, both passed with a grade of C or higher.
Corequisites: Psychology 302 and 491.
Course Type(s): none
PY 305 Cr. 3.0
Theories of Personality
An introduction to methods for studying personality and building personality theories; psychodynamically oriented theories as well as biosocial, behavioristic, cognitive, humanistic, and existential approaches.
Prerequisite: Psychology 103.
Course Type(s): none

PY 307 Cr. 3.0
Leadership and Group Processes
An introduction to the study of group dynamics, particularly with regard to leadership and power. Exploration of past and present research on groups; current theoretical understanding of important group processes, such as group formation, changes over time, group decision-making and performance, social influence, and intermember relations.
Prerequisite: Psychology 103.
Course Type(s): none

PY 307L Cr. 1.0
Leadership and Group Processes Laboratory
Study and evaluation of empirical methods used in group-dynamics research. Students will critique published research and learn to identify and avoid common threats to the validity of their own research. Three hours per week.
Prerequisites: Psychology 103, and Psychology 311 and 320, passed with a grade of C or higher. Corequisites: Psychology 307 and 491.
Course Type(s): none

PY 311 Cr. 4.0
Psychological Statistics and Lab
A continuation in statistical concepts and application, including analysis of variance, nonparametric techniques, regression equations, correlations. Laboratory: Instruction in data analysis using SPSS (Statistical Package for the Social Sciences), training in software tools for formatting and presenting research findings.
Prerequisite: Psychology 220, passed with a grade of C or higher.
Course Type(s): TL

PY 320 Cr. 4.0
Experimental Methods in Psychology and Laboratory
An introduction to theory and application of experimental methods in psychology. Three hours of lecture, two hours of individual laboratory work per week.

Prerequisites: Psychology 220 passed with a grade of C or higher; and English 101 and 102 or permission of the instructor.
Corequisite: Psychology 311.
Course Type(s): WT

PY 321 Cr. 4.0
Qualitative Research Methods
An interdisciplinary overview of qualitative research methods employed in the social sciences and education. Qualitative methods are offered as an alternative way of knowing about individuals and groups. Topics covered include: theory, fieldwork, interviewing, observational studies, time sampling, writing field notes, questionnaires (survey research), archival research, and conducting qualitative research in various settings. Emphasis also placed upon the factors that affect the fieldwork process (e.g., gender, emotions). Also listed as Anthropology 321.
Prerequisite: Psychology 103.
Course Type(s): none

PY 331 Cr. 3.0
Psychology of Women
The current state of knowledge about the psychology of women based on theoretical and empirical contributions from psycho-biology, personality, social and life-span psychology.
Prerequisite: Psychology 103.
Course Type(s): GS

PY 332 Cr. 3.0
Psychology of the Male Experience
Examines stereotypes about men in Western society, many of which are challenged in the light of empirical research; theoretical and empirical contributions from personality, social and life-span psychology, and psychobiology; consideration of methods and sources of bias in research used in gender studies.
Prerequisite: Psychology 103.
Course Type(s): GS

PY 335L Cr. 1.0
Gender and Sex Roles Laboratory
Research strategies used in the study of gender and sex roles. Projects include: methods of archival research, interview and survey techniques, naturalistic observation, and correlational and experimental procedures. Students also design and carry out their own research project, and prepare written and oral reports of the findings. Three hours per week.
Prerequisites: Psychology 103, and Psychology 311 and
Appendix A: Course Descriptions

PY 342 Cr. 3.0
Children's Play and Culture
An intensive examination of children's play. Theoretical and empirical contributions from psychology and anthropology as a developmental and cross-cultural foundation for the following topics: the historical development of the concept of childhood, theories of play, conceptions of play and work, the functions of play, play and child development, gender differences, cross-cultural forms of play, and children's peer cultures. Also listed as Anthropology 342.
Prerequisite: Psychology 203.
Course Type(s): GS

PY 342L Cr. 1.0
Children's Play Laboratory
Research strategies used in the study of children's play. Projects include: methods of interviewing and survey techniques, naturalistic observation, participant observation, and time sampling. Students also design and undertake their own research projects and prepare written and oral reports of their findings.
Prerequisites: Psychology 311, 320, and 321, passed with a grade of C or higher.
Corequisites: Psychology 342 and 491.
Course Type(s): EX

PY 350 Cr. 3.0
Evolutionary Psychology
The role of evolutionary thinking in human psychology, including ideas and evidence from animal behavior; topics include a brief history of socio-political resistance to Darwinian ideas, basic principles of evolutionary (population) biology, behavioral strategies affecting cognitive and social psychology, especially survival issues (feeding, predation avoidance), mating systems (attraction, mate retention, reproduction and rearing offspring), and social exchange issues. Exploration of potential application in other disciplines (medicine, law, history, marketing and economics).
Prerequisite: Psychology 103.
Course Type(s): none

PY 350L Cr. 1.0
Evolutionary Psychology Laboratory
Research strategies used in studying the role of evolution in human psychology. Projects include: methods of archival research, interview and survey techniques, naturalistic observation, correlational and experimental procedures. Students will design and carry out their own research project and prepare written and oral reports of the findings. Three hours per week.
Prerequisites: Psychology 103, Psychology 311 and 320, both passed with a grade of C or higher.
Corequisites: Psychology 350 and 491.
Course Type(s): none

PY 360 Cr. 3.0
Intimate Relationships
Provide an overview of current theory and research in the field of intimate relationships. Focuses on topics such as: our need for relationships, interpersonal attraction, love, attachment, communication, relationship maintenance, relationship trajectories, relationship dissolution, jealousy, and extra-dyadic relationships. Special attention will be given to understanding these topics through the use of scientific journal articles.
Prerequisites: Psychology 207.
Course Type(s): none

PY 360L Cr. 1.0
Intimate Relationships Laboratory
Research strategies used in the study of intimate relationships. Deals with the following topics: constructing surveys, writing quality question items, two-group design, multi-group design, factorial design, within-subjects design, and the use of statistical methods in research. These will be covered in the context of student projects. Each student will design and carry-out his or her own research project. Three hours per week.
Prerequisites: Psychology 360 and Psychology 320 and 311; both passed with a grade of C or higher.
Course Type(s): none

PY 370 Cr. 3.0
Sensation and Perception
Evolution of animal and human sensory systems and perceptual mechanisms and processes; current research data and person-machines comparisons.
Prerequisite: Psychology 103.
Course Type(s): none

PY 370L Cr. 1.0
Sensation and Perception Laboratory
Basic laboratory techniques for the study of perceptual experiences. Includes sensory thresholds, intensity scaling, color judgments, visual shape and depth, visual illusions, brain lateralization, interactions among sensory modalities, and attention. Three hours per week.
Prerequisites: Psychology 311 and 320, passed with a grade of C or higher.
Corequisites: Psychology 370 and 491.
Course Type(s): none

PY 388 Cr. 3.0
Cooperative Education: Psychology
Provides students with an opportunity to apply classroom theory in practice through actual work experience. Placements are selected to forward the student's career interest through experiential education. Repeatable for credit.
Prerequisites: Completion of thirty credits and a minimum GPA of 2.00.
Course Type(s): EX

PY 398 Cr. 1.0 - 3.0
Special Topics in Psychology (300 Level)
An intensive study of a particular subject or problem in psychology to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PY 398L Cr. 1.0
Special Topics in Psychology Laboratory (300 Level)
An intensive study of a particular subject or problem in psychology to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Course Type(s): none

PY 401 Cr. 3.0
Introduction to Clinical Psychology
The application of psychological approaches to the study and treatment of behavior problems, diagnosis, therapeutic techniques, and the professional role of the clinical psychologist in society.
Prerequisite: Psychology 208.
Course Type(s): none

PY 401L Cr. 1.0
Clinical Psychology Laboratory
A practicum in assessment and therapeutic techniques, incorporating standard research procedures used in clinical psychology. The scientific study of individual differences and their impact on behavior.
Prerequisites: Psychology 208, and Psychology 311 and 320; both passed with a grade of C or higher.

Corequisites: Psychology 401 and 491.
Course Type(s): EX

PY 404 Cr. 3.0
Animal Behavior
The role of animal behavior in development; adaptive behavioral strategies; social behavior and population dynamics; invertebrate and vertebrate behavior, including human ethology. Two all-day Saturday field trips required. Also listed as Biology 404.
Prerequisite: Psychology 103 or Biology 110, passed with a grade of C- or higher.
Course Type(s): none

PY 404L Cr. 1.0
Animal Behavior Laboratory
Methods in the study of animal behavior. Projects on instinctive behavior, early experience, learning, dominance relationships, territoriality, behavioral ecology, and sociobiology. One all-day field trip and an independent project will be required.
Prerequisites: Psychology 311 and 320, passed with a grade of C or higher.
Corequisite: Biology 404 or Psychology 404.
Course Type(s): none

PY 406 Cr. 3.0
Introduction to Neurosciences
The organization of the nervous system in terms of its anatomy, physiology, neurochemical correlates, and evolution; behavioral processes, such as attention, sleep, motivation, instinct, learning, and language. 
Prerequisite: Psychology 103.
Course Type(s): none

PY 406L Cr. 1.0
Neurosciences Laboratory
Human and animal neuroanatomy; surgical techniques, including lesion, stimulation, and perfusion; histology; drug and hormone administration; and physiological recording techniques. Three hours per week.
Prerequisite: Psychology 103.
Corequisite: Psychology 406.
Course Type(s): none

PY 407 Cr. 3.0
Social Cognition
Focus on social cognition, a research area within social psychology that studies the social and cognitive processes through which individuals notice, interpret, remember,
and use information about their social world. Exploration of past and present social research, current theoretical understanding, and potential applications of important social-cognitive processes.

Prerequisite: Psychology 103.

Course Type(s): none

PY 407L  Cr. 1.0
Social Cognition Laboratory
Study and evaluation of empirical methods used in social cognition research. Students will critique published research and learn to identify and avoid common threats to the validity of their own research. Three hours per week.

Prerequisites: Psychology 311 and 320, both passed with a grade of C or higher.

Corequisites: Psychology 407 and 491.

Course Type(s): none

PY 408  Cr. 3.0
Cross-Cultural Psychology
Theoretical and empirical contributions from psychology and anthropology provide a foundation for topics covered that include: the history of cross-cultural psychology, methodology in cross-cultural psychology, gender differences, aggression, schooling, children’s play, child development, and social distance. Also listed as Anthropology 408.

Prerequisite: Psychology 203.

Course Type(s): none

PY 410  Cr. 1.0 - 3.0
Field Experience
Supervised, volunteer work in approved mental and other facilities; training and supervision provided by the agency in consultation with the psychology department.

Prerequisites: Completion of 80 credits, with 18 credits in the psychology major, including Psychology 320.

Course Type(s): EX

PY 415  Cr. 3.0
Current Areas in Personality Research
Empirical and theoretical consideration of representative issues in contemporary personality theory; supervised reading and experimentation in selected areas with particular emphasis on experimental methods.

Prerequisite: Psychology 103.

Corequisite: Psychology 491.

Course Type(s): none

PY 426  Cr. 3.0
Theories of Childhood and Development
An overview of and evaluative approach to developmental theories and conceptions of childhood. The theoretical frameworks covered include: constructivism, learning theory, psychoanalysis, psychosocial, and ethological/evolutionary approaches. Theorists discussed include: Bowlby, Dewey, Erikson, Freud, Montessori, Piaget, Skinner, and Vygotsky.

Prerequisites: Psychology 203, 320, and 321.

Course Type(s): none

PY 431  Cr. 3.0
Psychological Tests and Measurements
Introduction to theory of measurement; its application to psychological and educational testing and exposure to frequently used tests with ethical and practical considerations.

Prerequisite: Psychology 311 passed with a grade of C or higher.

Course Type(s): none

PY 488  Cr. 3.0
Cooperative Education: Psychology
Provides students with an opportunity to apply classroom theory in practice through actual work experience. Placements are selected to forward the student’s career interest through experiential education. Repeatable for credit.

Prerequisites: Completion of thirty credits and a minimum GPA of 2.00.

Course Type(s): EX

PY 489  Cr. 1.0 - 3.0
Independent Internship in Psychology
Students apply the psychological concepts they have learned in the classroom and laboratory to work-related experiences. Working with the cooperation of the Life Career Advising Center and a faculty sponsor, the student will secure an internship site. On a volunteer basis, students will work 40 hours per credit per term at their internship sites. Students are required to develop learning objectives at the start of their internship, keep a journal of their internship experience throughout their placement, and write a final paper that includes an integrated review of the literature and reports their progress in meeting their learning objectives.

Prerequisites: Junior standing, twenty one credits completed in Psychology, overall GPA of 3.00, approval by Psychology Department. Limited to Psychology majors.

Course Type(s): EX
PY 490 Cr. 3.0
Senior Seminar in Psychology
Readings, invited speakers, student presentations, and
discussion of current and review topics in psychology.
Course emphasis to vary with orientation of directing
professor.
Prerequisites: Psychology 320, passed with a grade of C
or higher and completion of eighteen credits in
Psychology.
Course Type(s): none

PY 491 Cr. 2.0
Senior Thesis in Psychology
Study and research in psychology under the supervision
of a psychology faculty member, leading to the prepara-
tion of a senior thesis.
Prerequisites: Psychology 311 and 320, both passed with
a grade of C or higher.
Corequisite: Any Psychology 300-400 level course with a
lab.
Course Type(s): none

PY 498 Cr. 1.0 - 3.0
Special Topics in Psychology (400 Level)
An intensive study of a particular subject or problem in
psychology to be announced prior to registration. May be
conducted on either a lecture-discussion or a seminar
basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PY 498L Cr. 1.0
Special Topics in Psychology (Laboratory)
An intensive study of a particular subject or problem in
psychology to be announced prior to registration.
Prerequisite: As announced in the course schedule.
Course Type(s): none

PY 499A Cr. 1.0 - 3.0
Independent Study in Psychology
Independent studies in psychology (experimental)
research under supervision of a faculty member. May be
taken for a maximum of six credits.
Prerequisites: Junior standing and prior permission of
instructor and department chair.
Course Type(s): none

PY 499B Cr. 1.0 - 3.0
Independent Study in Psychology
Independent studies in psychology (reading and theoreti-
cal) special project under supervision of a faculty mem-
ber. May be taken for a maximum of 6 credits.
Prerequisites: Junior standing and prior permission of
instructor and department chair.
Course Type(s): none

RELIGIOUS STUDIES

RS 104 Cr. 3.0
Ethics
Theoretical ethics and its application to enduring and con-
temporary moral issues. Thorough examination of the
basic principles of a rational, humane, and practical moral
system. Also listed as Philosophy 104.
Course Type(s): none

RS 201 Cr. 3.0
Philosophy of Religion
An examination of certain salient features of Western reli-
gious thought emphasizing the problems of religious lan-
guage, the nature and validity of religious experience, tra-
tditional and contemporary ideas of God, morality, death,
and evil. Also listed as Philosophy 201.
Prerequisite: Philosophy 101.
Course Type(s): none

RS 203 Cr. 3.0
Philosophy and History of Christianity I
Survey the development of Christianity in the Middle East
and Europe and its continued expansion from the first to
the fifteenth century. Focus on selected literature and
most significant historical events in the development of
Christianity. Highlights some of the institutions and people
which came out of this movement and how they helped to
shape the philosophical, religious, political, economic, and
social realities of their day.
Course Type(s): none

RS 216 Cr. 3.0
Religions and Philosophies of India
Introduction to the fundamental elements of the orthodox
and non-orthodox philosophical and religious systems of
India. Highlights plurality of timeless, distinct gnostic sys-
tems that, having discovered the Self, search for liberation
from the stream of time. Also listed as Philosophy 216.
Course Type(s): CC, CD

RS 272 Cr. 3.0
Magic, Witchcraft, and Religion
Explores the motivation of human behavior within the realm
RS 277 Cr. 3.0
Comparative Religions
Students are introduced to the fundamental differences and similarities of world religions that, throughout history, were and are at war with each other. Highlights a plurality of distinct creeds that, postulating an Absolute Truth, search to regain that Ultimate Reality through various ways of life or moral codes. Also listed as Philosophy 277.
Course Type(s): CC, GU

RS 298 Cr. 1.0 - 3.0
Special Topics in Religion
Exposition and discussion of a current event or an enduring human concern with religious significance.
Course Type(s): none

RS 375 Cr. 3.0
Islam and Politics
Examination of the interrelationship between Islam as a religion and a way of life and politics in different regions of the world. Following a quick survey of the belief and practice of Islam since its inception, the focus will be placed on the past 100 years, particularly the Muslim responses to the challenges of colonialism, modernization, and globalization and Islam’s reassertion in public affairs and society. Concludes with ways for improving Islam-West relations in the hope that these will generate better understanding and peace. Also listed as Political Science 375.
Course Type(s): CC

RS 397 Cr. 3.0
Christianity in Africa
Examination of Christianity from a historical perspective. Discussion of the foundation of the religion, its spread to the Roman Empire, and its introduction to Africa. Discussion of the proliferation of Christian missions and missionaries and the relationship between Christianity and other religions in Africa. Examination of the impact of Christianity on the social, cultural, and political life of Africans. Also listed as History 397.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): CC, WT

RS 400 Cr. 3.0
Love, Life and Liberty
Examination of the historical and philosophical aspects of love and the assertion for freedom starting from the biological concept of life. Throughout history, the various interpretations of these ideas have shaped the world. Students will be introduced to some of the most important related works that are the fiber of history, philosophy, and science. The analysis of revered cultural traditions will show the impact of love on the rational thinking and artistic creation. Also listed as Perspectives 400.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

RS 435 Cr. 3.0
The Way and the Word
A comparison of classic texts central to two Asian traditions, The Bhagavad Gita and The Analects; the impact of the ethos of each tradition on secular narratives, Asian and Western. The disciplines represented include Comparative Religion and Literature. Also listed as Perspectives 435.
Prerequisites: Ninety credits and completion of all other general education requirements.
Course Type(s): ISP

RS 436 Cr. 3.0
The Reformation
A study of sixteenth and early seventeenth-century religious and political developments in Europe: causes of the Reformation, its political and social institutionalization, ideas of reformers, wars of religion, and the Counter-Reformation.
Prerequisite: Junior standing or twelve credits in History.
Also listed as History 436.
Course Type(s): HSEU

RS 499 Cr. 3.0
Independent Study in Religious Studies
Guided research on selected topics; conference with sponsoring professor.
Prerequisites: Junior standing and prior permission of the directing professor and department chair.
Course Type(s): none
Appendix A: Course Descriptions

SCIENCE

SC 100 Cr. 3.0
*Discovery and Thinking in Natural Sciences*
The development of major concepts in the biological, chemical, and physical sciences; their importance today.
Course Type(s): none

SC 110 Cr. 3.0
*Nutrition Science*
An overview of the science of human nutrition, including the basics of protein, carbohydrate, lipid, vitamin, mineral, water, and alcohol metabolism. An analysis of the relationship of diet to various health issues and current controversies in nutrition will be covered. Students will learn the elements of nutritional analysis by evaluating their personal diets. Emphasis will be on the manner in which nutrition knowledge is acquired which will include a nutrition study conducted by the students.
Course Type(s): none

SC 120 Cr. 3.0
*The Science of Cooking*
Covers concepts from chemistry, biology and physics that underpin the transformations that occur during food preparation and cooking. An understanding of why cooking techniques and recipes work will be examined. Cooking demonstrations and experiments will be used to illustrate the scientific concepts involved. Note: This course involves the preparation and (optional) consumption of food. If you have specific food allergies or needs, contact the instructor to discuss any arrangements that may be appropriate.
Course Type(s): none

SOCIAL WORK

SW 105 Cr. 3.0
*Introduction to Social Work*
Social work and its professional practices, its goals, guiding philosophy, and basic assumptions; the uses of the professional relationship; roles of the professional social worker and collaborative activity in the helping process. Not open to students who have completed Sociology 105. Previously listed as Social Work 101.
Course Type(s): none

SW 198 Cr. 1.0 - 3.0
*Special Topics in Social Work (100 Level)*
An intensive study of a particular subject or problem in social work to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

SW 205 Cr. 3.0
*Global Human Rights and Social Justice*
Examines social issues and injustices from a global perspective. A central focus will be the struggles of individuals, families, and communities from around the world. Introduces the student to the concepts of social justice, human rights, social welfare and oppression, and discusses ways to promote social welfare from a human rights and social justice perspective.
Course Type(s): GU, SUS

SW 223 Cr. 3.0
*Human Behavior and Social Environment I*
A study of significant life tasks in the physical, social, and emotional development of the individual.
Prerequisites: Social Work 105 or 205.
Corequisite: Biology 105.
Course Type(s): none

SW 224 Cr. 3.0
*Human Behavior and Social Environment II*
A study of significant life tasks in the physical, social, and environmental development of communities, groups, and organizations.
Prerequisites: Social Work 105 and 223.
Course Type(s): none

SW 260 Cr. 3.0
*Alcohol and Drugs*
Addresses the special population in social work, specifically the substance abusing population. Through lecture, small group exercises, and films, will educate the students as to what is substance abuse and addiction, what treatment options are available, how to determine the appropriate treatment, as well as different forms of therapy and relapse-prevention work.
Prerequisite: Social Work 101, Psychology 103 or Social Work 205.
Course Type(s): none

SW 261 Cr. 3.0
*Diagnosing Mental Health Issues*
A detailed explanation of the DSM IV and its practical use in the social work profession. Cultural applications, as
well as international implications and the accurate assessment terminology, will be discussed.
Prerequisite: Social Work 105, Psychology 103 or Social Work 205.
Course Type(s): none

SW 263 Cr. 3.0
Family Counseling
Introduces students to the assessment and treatment of various family systems. A continuation of the ecological perspective of systems theory and social work practice illustrated in Human Behavior and the Social Environment and Social Work Practice Techniques I. Ethnic, culture, and gender issues are included as they apply to families. Family violence, substance abuse, adolescence conflict, and marital discord are among the topics discussed.
Prerequisite: Social Work 105, or Psychology 103, or Social Work 205.
Course Type(s): none

SW 264 Cr. 3.0
Addictions
Addresses the addictions component of social work. Working with the clients and families to address the unbalance and dysfunction in their lives through assessment, treatment planning, and individual, group, and family therapy. Covering eating disorders, gambling, nicotine, sexual addiction, and workaholism.
Prerequisite: Social Work 105, Psychology 103 or Sociology 105.
Course Type(s): none

SW 265 Cr. 3.0
Creative Therapies
With creative and interactive approaches, the students will recognize and appreciate their personal experiences to better assess the needs of their clients, as well as enhance conventional therapeutic methods. Also introduces alternate approaches to talk therapy to work with specialized client groups, such as young, traumatized, or non-verbal clients.
Prerequisite: Social Work 105, Psychology 103 or Social Work 205.
Course Type(s): none

SW 266 Cr. 3.0
Spirituality and Social Work
Explores spirituality as it broadly relates to the profession of social work. Holistic concepts under the definition of spirituality will be explored. The many ways spirituality can be used in social work practice settings will be discussed. Methods of spiritual practice and approaches to healing will be covered. Spirituality will be differentiated from formal religion.
Prerequisite: Social Work 105, Psychology 103 or Social Work 205.
Course Type(s): none

SW 276 Cr. 3.0
Administration of Gerontological Services
The examination of the theory and practice of the administration of programs designed to meet the needs of older adults, with an emphasis on structure of organizations, impact of public policies and funding patterns on agencies, styles of administration, development and presentation of a budget, management of public information, and relationships with other gerontological agencies.
Course Type(s): none

SW 278 Cr. 3.0
Family Violence
The characteristics and dynamics of violent families. Emphasis on the issue of domestic violence as it relates to cultural values and beliefs. Myths, motivations, and linkages to substance abuse will be addressed, as well as appropriate interventions and treatment methods.
Course Type(s): none

SW 280 Cr. 1.0
Peer Tutoring
Peer tutoring experience. Students will prepare course-related information for presentation to students in courses at the 100 or 200 levels. Tutors will meet weekly with a faculty supervisor and assigned students.
Prerequisite: The student must have already taken the 100- or 200-level course s/he is to be tutoring and achieved a minimum grade of B in the course. Permission of the instructor required.
Course Type(s): none

SW 298 Cr. 1.0 - 3.0
Special Topics in Social Work (200 Level)
An intensive study of a particular subject or problem in social work to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none
SW 299 Cr. 3.0  
Independent Study in Social Work  
Directed individual study of social work in areas of special interest.  
Course Type(s): none

SW 317 Cr. 3.0  
Racism, Sexism, and Social Welfare  
Analysis of institutional racism and sexism in relation to social welfare; the nature of social work intervention with racial and ethnic minorities and women.  
Course Type(s): CD, GS

SW 325 Cr. 3.0  
Social Welfare Policy and Services I  
The values and norms that underline social welfare services; the historical roots of current approaches to social services; the manifest and latent functions of social welfare; political and economic forces that shape social welfare policy and services.  
Prerequisite: Political Science 101 or 103.  
Course Type(s): none

SW 326 Cr. 3.0  
Social Welfare Policy and Services II  
Dimensions of choice in social welfare policy design; eligibility for service; structures, staffing, and funding for services; theoretical material related to current developments and services in the field.  
Prerequisites: Social Work 325; and English 101 and 102 or permission of the instructor.  
Course Type(s): WT

SW 330 Cr. 3.0  
Field Practice in Gerontology  
Designed to provide students with an actual learning experience in an agency or organization specializing in gerontological services. Students will be supervised by a specialist in aging and will become familiar with agency functions and services serving the aging client and client’s extended family. Students will observe and, later in the semester, begin to provide service under supervision. Eight hours per week in placement and a weekly seminar at the University.  
Prerequisites: Social Work 105 and 223.  
Course Type(s): none

SW 332 Cr. 3.0  
Gender and Sexual Identities  
Draws on sociological and feminist theories of identity to question the definitions, constructions, deconstructions, ambivalences, and socially constructed nature of gender and sexual identities. In questioning such identities, this course aims at helping students understand the connections between gender and sexuality, and how those two social forces shape people’s individual identities and the identities of others. The course examines how structure of race, class, gender, and sexuality, and social institutions such as family and work shape gender and sexual identities. It pays particular attention to how one’s social location within power structures shapes personal identities.  
Also listed as Sociology 332.  
Prerequisite: Sociology 101.  
Course Type(s): CD, GS, SI

SW 341 Cr. 3.0  
Social Work Practice with Groups  
Methods and skills utilized in generalist social work practice; major methods of social work intervention with individuals, groups, and communities using case analysis and theoretical concepts. Previously listed as Social Work 413.  
Prerequisite: Social Work 223 passed with a grade of C or higher.  
Course Type(s): EX

SW 342 Cr. 3.0  
Social Work Practice with Individuals and Families  
Methods and skills utilized in generalist social work practice; major methods of social work intervention with individuals, groups, and communities using case analysis and theoretical concepts. Previously listed as Social Work 321.  
Prerequisites: Social Work 105 and 223; both passed with a grade of C or higher.  
Corequisite: Social Work 342L.  
Course Type(s): EX

SW 342L Cr. 1.0  
Social Work Practice with Individuals and Families Lab  
Designed to provide students with a hands-on experience with the assessment skills and tools taught in Social Work Practice with Individuals and Families class (SW 321). Students will become familiar with videotaping equipment and will develop strong assessment skills to be used with clients in the field. Limited to Social Work majors and minors. Previously listed as SW 321L. For Social Work majors only.  
Prerequisite: Social Work 223.  
Corequisite: Social Work 342.  
Course Type(s): none
SW 344 Cr. 3.0
Social Work Practice with Communities
Examines conceptual models of community social work; development of skills to help promote social change.
Previously listed as Social Work 380.
Prerequisite: Social Work 224.
Course Type(s): none

SW 371 Cr. 3.0
International Service Seminar
Students will learn to unite theory and practice by studying theories and policies based on human security, and learning about their applications through service-learning projects. Students will enhance their understanding of human security by volunteering in international, community organizations and reflecting on the social, political, and economic factors and policies that affect them. Also listed as Political Science 371.
Prerequisite: Political Science 101.
Course Type(s): EX

SW 383 Cr. 3.0
Migration and Intercultural Cooperation
Students will become familiar with issues and strategies to deal with immigrant populations effectively. Discussions will be directed towards increasing intercultural cooperation, respect for the principle of peaceful co-existence, and diversity as a strength for economic growth and societal progress. Emphasis will also be given to the theories related to ethnicity, race, culture, and geographic location of the origin of immigrant populations. Special attention will be given to the diverse issues that arise from the varied cultural backgrounds of immigrants and refugees. Students will learn skills related to culturally appropriate and tailored interventions. Experiential learning will be utilized. Prepares students using a strength-based empowerment approach to effectively utilize required resources serving the needs of diverse, immigrant populations.
Course Type(s): CC, GU

SW 398 Cr. 1.0 - 3.0
Special Topics in Social Work (300 Level)
An intensive study of a particular subject or problem in social work to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

SW 409 Cr. 3.0
Social Work Research Methods
Basic skills necessary for Social Work research: problem formulation, theoretical framework development, research design, methods of data collection, evaluation techniques, and data analysis. Previously listed as Social Work 350.
Corequisite: Social Work 421.
Course Type(s): none

SW 411 Cr. 3.0
Data Analysis for Social Work
Introduction to the basic knowledge and skills necessary for the analysis of data collected or reported in social work research. Preparation for the social work practitioner to assess the adequacy of statistical procedures and to appropriately choose statistical procedures to make order out of data collected within their own research. Not open to students who have successfully completed Mathematics 151. Limited to Social Work majors.
Prerequisite: Mathematics 105.
Course Type(s): none

SW 412 Cr. 3.0
Practice Evaluation in Social Work
Applications of research methods to social work practice. Using skills in practice evaluation, advanced research in single-system design will be conducted.
Prerequisites: Social Work 409, 411 or Math 151, Senior standing; and English 101 and 102. Corequisite: Social Work 422.
Course Type(s): WT

SW 421 Cr. 6 -
Field Practice in Social Work
Supervised experience in a social agency; direct work with individuals, groups, or communities; preparation for professional responsibility upon graduation. Sixteen hours per week in placement and a weekly seminar at the University.
Prerequisites: Social Work 342 and 344, both passed with a grade of C or higher.
Course Type(s): EX5

SW 422 Cr. 6 -
Advanced Field Practice in Social Work
Advanced field practice; direct services to individual clients, families, groups, and communities, with the possibility of administrative experiences. Sixteen hours per week in placement and a weekly seminar at the University.
Prerequisite: Social Work 421 passed with a minimum grade of B- or higher.
Corequisite: Social Work 412.
Course Type(s): EX

SW 424 Cr. 3.0
*New Perspectives on Human Sexuality*
Recent research and developments in the field of human sexuality focusing on individual and social problems.
Prerequisites: Nine combined credits from Social Work, Sociology, Psychology or Anthropology.
Course Type(s): none

SW 426 Cr. 3.0
*Seminar in Social Work*
Seminar focusing on topics of particular interest to Social Work students planning to enter practice or graduate school. Previously listed as SW 423.
Prerequisites: Social Work 421 and Senior standing.
Course Type(s): none

SW 461 Cr. 3.0
*Culturally Diverse Child Welfare Practices*
Provides an understanding of the context from which the practice of child welfare originates, examining the impact of policy upon the direct care of children at risk.
Contemporary issues that face children at risk such as sexual abuse, neglect, physical abuse, poverty, and maternal substance abuse are covered, as well as recommended services and treatment that address these concerns. Public child welfare in New Jersey will be of central focus, including the impact and changes of the system's reform plan. In addition, issues of cultural diversity and cultural difference in child welfare practices and child rearing behaviors will be reviewed, with a focus on how the child welfare system could better infuse diversity of experience in policy and practice.
Course Type(s): CD

SW 498 Cr. 1.0 - 3.0
*Special Topics in Social Work (400 Level)*
An intensive study of a particular subject or problem in social work to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

SW 499 Cr. 1.0 - 3.0
*Independent Study in Social Work*
Directed individual study of social work in areas of special interest.
Prerequisite: Prior permission of the directing professor and department chair.
Course Type(s): none

**SOCIOMETRY**

SO 101 Cr. 3.0
*Introduction to Sociology*
A systematic introduction to the major questions, perspectives, and methods of sociology; basic conceptual vocabulary; analysis of individual and group behavior within special areas.
Course Type(s): SS.SV

SO 102 Cr. 3.0
*Social Problems*
An analysis of social problems in contemporary society; poverty, race, gender and age inequality; work; urbanization; crime; mental illness; and drug use.
Course Type(s): SS.SV

SO 109 Cr. 1.0
*Civic Engagement and Leadership*
Civic responsibility, engagement, and leadership are encouraged through active student involvement in a community or campus organization. Students will perform 12 hours of public service over the course of the semester working for an organization that addresses a particular issue of public concern. Also listed as Political Science 109.
Course Type(s): none

SO 198 Cr. 1.0 - 3.0
*Special Topics in Sociology (100 Level)*
An intensive study of a particular subject or problem in sociology to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

SO 201 Cr. 3.0
*Global Social Problems*
Leading areas of tension, crisis, and debate in the contemporary world with emphasis on global population trends, global poverty and hunger, and inequality among nations in the world’s economic system and their social policy implications.
SO 225 Cr. 3.0
*Introduction to Gender Studies*
Examines gender inequalities and the pervasiveness of gender as a way of structuring/organizing social life. Emphasizes how gender as a social structure intersects with other social structures such as race, class, and sexuality to legitimize power and privilege and/or constrain diverse groups of people. Critiques conventional theories of gender and sociology and covers a broad spectrum of topics using feminist and sociological perspectives. Also pays attention to the connection between social structure and human agency - how people's experiences are both shaped by social forces and shaped through human action. Also listed as Gender Studies 225.

Prerequisite: Sociology 101.
Course Type(s): GLS

SO 231 Cr. 3.0
*Urban Sociology*
Theoretical analysis of the modern, urban community, including the history of the city and analysis of urban institutions and behavior patterns; problems relating to metropolitan and suburban areas, community planning, and urban renewal. Also listed as Geography 231.

Prerequisite: Sociology 101.
Course Type(s): CD, GS, SI, SS.SV

SO 234 Cr. 3.0
*Sports and Society*
The increasingly important role of sports as an institution in modern society. Sports in relation to racism, sexism, education, values, and stratification systems.

Prerequisite: Sociology 101.
Course Type(s): none

SO 241 Cr. 3.0
*Criminology*
Explanations of the causes of property and violent offenses. Discussion of white collar, professional and organized crime, and the problem of criminal statistics.

Prerequisite: Sociology 101 or 102.
Course Type(s): WT

SO 243 Cr. 3.0
*Juvenile Delinquency*
History of the concept of delinquency; extent and nature of delinquent behavior; explanations of delinquent behavior; police and court responses to juveniles; and a review of rehabilitative and treatment modalities.

Prerequisite: Sociology 101.
Course Type(s): none

SO 244 Cr. 3.0
*Deviance*
How society creates and responds to deviant behavior, ranging from violations of courtesy to homicide. Analysis of the system of social control, including the police, education, psychiatry, and the state.

Prerequisite: Sociology 101 or 102 or Criminal Justice 101.
Course Type(s): none

SO 250 Cr. 3.0
*Social Sciences Research & Writing*
An introduction to the different ways in which social scientists study the social world. Designed to develop students' understanding of the major purposes of social research as well as the major types of quantitative and qualitative research designs. Students will learn the research process itself, from conceptualization and measurement to operationalization, sampling, ethics, and the analysis and presentation of their proposed study. As part of the research process, students will use spreadsheet, presentation, and word processing software to build datasets, analyze data, and design and present research. Also listed as Political Science 250.

Prerequisite: Sociology 101.
Course Type(s): TL

SO 255 Cr. 3.0
*The Future of Society*
What will the societies of the future look like? Discussion of the implications of technology, population, and political power for social change.

Prerequisite: Three credits in Sociology.
Course Type(s): none
SO 261 Cr. 3.0
Sociology of Family
Analysis of the institution of marriage and family in contemporary America with cross-cultural, sub-cultural, and historical references, including mate selection, family roles and relationships, parenthood, and childhood.
Prerequisite: Sociology 101.
Course Type(s): GS

SO 267 Cr. 3.0
Sociology of Sex Roles
An investigation of male and female role differences in the private and public sectors of society. The consequences of sex-role inequality are explored. Particular emphasis is given to contemporary American society.
Prerequisite: Sociology 101.
Course Type(s): GS

SO 274 Cr. 3.0
Global Inequalities
A sociological and political look at global inequalities. Explores diverse themes and aspects of a global society, including the forces that are causing and perpetuating global inequalities. It also looks at social, political, economic, and cultural consequences of those inequalities.
Also listed as Political Science 274.
Prerequisite: Political Science 101 or Sociology 101.
Course Type(s): GLS, GU, SUS

SO 280 Cr. 1.0
Peer Tutoring
Peer tutoring experience. Students will prepare course-related information for presentation to students in courses at the 100- or 200-levels. Peer tutors will meet weekly with a faculty supervisor and assigned students.
Prerequisite: The student must have already taken the 100- or 200-level course s/he is to be tutoring and achieved a minimum grade of B in the course. Permission of the instructor required.
Course Type(s): none

SO 299 Cr. 1.0 - 3.0
Independent Study in Sociology
Guided readings on a topic not otherwise covered in the curriculum. Student must have a least a 2.50 cumulative GPA.
Course Type(s): none

SO 309 Cr. 3.0
Sociology Internship Seminar
Provides an opportunity for students to apply classroom theory in practice through actual work experience. Includes both academic and experiential learning. The experiential part involves a minimum of 120 hours of work experience during the semester for 3 credit hours. The academic aspect includes maintaining a journal log and writing a final report. Also listed as Political Science 309.
Course Type(s): EX

SO 316 Cr. 3.0
Policy Research
The principles of social research, with emphasis on an understanding of the policy-making or planning process; development of applied research skills, combining policy-making, implementation, and scientific or empirical research. Also listed as Social Science 316.
Prerequisite: Social Science 250.
Course Type(s): none

SO 320 Cr. 3.0
Small Group Communication
The process of group communication, leadership, decision-making, and problem solving; participation in various types of discussion situations and the development of effective communication within the group setting. Also listed as Communication 320.
Course Type(s): none

SO 331 Cr. 3.0
Political Sociology
Analysis of the interplay among political and social behavior, bureaucracies, voluntary associations, and government. The social basis of democracy; emphasis on conflict and consensus models of power.
Prerequisite: Sociology 101.
Course Type(s): none

SO 332 Cr. 3.0
Gender and Sexual Identities
Draws on sociological and feminist theories of identity to question the definitions, constructions, deconstructions, ambivalences, and socially constructed nature of gender
and sexual identities. In questioning such identities, this course aims at helping students understand the connections between gender and sexuality, and how those two social forces shape people's individual identities and the identities of others. Examines how structures of race, class, gender, and sexuality, and social institutions such as family and work shape gender and sexual identities. It pays particular attention to how ones' social location within power structures shapes personal identities. Also listed as Social Work 332.

Prerequisite: Sociology 101.
Course Type(s): CD, GS, SI

SO 364 Cr. 3.0
Law and Society
The evolution of law, social forces influencing law, social impact of law, and law as an instrument of social control and social change. Also listed as Political Science 364.
Prerequisite: Sociology 101 or Political Science 101 or 103.
Course Type(s): none

SO 372 Cr. 3.0
Social Stratification
Status, power, authority, and social mobility are the key concepts that sociologists use to study the role of social classes in contemporary, American society. The course covers notable studies of the American class system. It provides a close look at the power relations and lifestyles of various classes and considers the pervasive influence of class identity on social institutions.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): SI, WT

SO 375 Cr. 3.0
Social Change
Overview of major contemporary and classical theories of social change within an international and historical context; the social impact of change; effects of social variables on change processes; and assessment of predictive models of change.
Prerequisite: Nine credits in Sociology.
Course Type(s): none

SO 379 Cr. 3.0
Work and Society
An examination of the individual experience of work: socialization, occupational choice, career development, worker (dis)satisfaction, and unemployment; the organization of work: bureaucracy, professionalism, racism and sexism, theories of motivation, and the reward structure.

Prerequisite: Three credits in Sociology.
Course Type(s): none

SO 396 Cr. 3.0
Sociology of Education
Encourages students to study education as a social institution using a sociological lens, and to become involved with the education of youth in the local area. The course is divided into three parts. The first part introduces students to the study of education as a social institution, particularly examining how social inequalities such as race, class, gender, and sexuality shape educational experiences of youth today. Students will also examine the cultural, social, economic, and political structures that shape education as a social institution. The second part of the course involves preparing students to tutor youth in surrounding towns. The preparation will be accomplished through theoretical discussions of what it means to be a good tutor, and through practical training to be administered in collaboration with local tutoring organizations. Through the auspices of local organizations, the third part of the course involves Monmouth students tutoring students from local schools in basic subjects such as math, language arts, and social studies. Students must be available to tutor three-four days a week for a total of ten hours per week. This course is open to students who have completed twenty nine credits or more.
Course Type(s): EX

SO 397 Cr. 3.0
The Sociology of Aging
A service learning course that encourages students to become involved with the elderly population in the area. It introduces students to the sociological study of social gerontology or, more specifically, aging. Students will examine the cultural, social, and political structures that define the aging process and will study and practice ethnographic, life history in order to conduct life histories of seniors within the local community.
Prerequisites: English 101 and 102.
Course Type(s): EX, WT

SO 398 Cr. 1.0 - 3.0
Special Topics in Sociology (300 Level)
An intensive study of a particular subject or problem in sociology to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none
SO 399  Cr. 3.0
Independent Study in Sociology
Guided readings on a topic not otherwise covered in the curriculum. Students must have at least a 2.50 cumulative GPA.
Prerequisite: Prior permission of the directing professor and department chair.
Course Type(s): none

SO 401  Cr. 3.0
Sociological Theory I
Main currents in contemporary, sociological thought; principal sociological theorists; major sociocultural systems; and recent theories concerning social causation, social change, and structural-functional analysis.
Prerequisites: Nine credits in Sociology; and English 101 and 102 or permission of the instructor.
Course Type(s): WT

SO 402  Cr. 3.0
Seminar in Sociological Theory
Intensive analysis of selected theories in sociology; a major critical paper involving substantial research is required.
Prerequisites: Sociology 401, Senior standing, and eighteen additional credits in Sociology.
Course Type(s): RD

SO 411  Cr. 3.0
Seminar in Social Research
Consideration of selected, advanced topics in methodology; a major research project is required.
Prerequisites: Sociology 312, Senior standing, and eighteen additional credits in Sociology.
Course Type(s): none

SO 498  Cr. 1.0 - 3.0
Special Topics in Sociology (400 Level)
An intensive study of a particular subject or problem in sociology to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

SO 499  Cr. 3.0
Independent Study in Sociology
Guided readings on a topic not otherwise covered in the curriculum.
Prerequisites: Student must have at least a 2.50 cumulative GPA; prior permission of the directing professor and department chair.
Course Type(s): none

SOFTWARE ENGINEERING

SE 104  Cr. 3.0
Introduction to Software Engineering
Introduction to the methods and tools for software development. Topics include the personal software process, requirements engineering, software design, testing methods, project management, and other management techniques.
Course Type(s): none

SE 205  Cr. 3.0
Requirements Engineering and Specifications
Elicitation, analysis, specification, validation, and management of user requirements; conflict resolution; process, notations, methods and tools, requirements standards, operational concepts documents (OCD) and system requirements specifications (SRS).
Prerequisites: Software Engineering 104 and Computer Science 175.
Course Type(s): none

SE 207  Cr. 3.0
Software Design and Architecture
Design process notations, methods, paradigms, and tools. System architecture tradeoff analysis; component and subcomponent specification. Generic (domain) design; architectural styles, frameworks, and patterns. Test and integration plan documents. Architecture standards; design tools.
Prerequisites: Software Engineering 104 and Computer Science 176 or 275; and English 101 and 102 or permission of the instructor.
Course Type(s): WT

SE 299  Cr. 3.0
Independent Study in Software Engineering
Independent Study of a particular subject or problem in software engineering under the guidance of a software engineering faculty member.
Course Type(s): none

SE 306  Cr. 3.0
Formal Methods in Software Engineering
Covers a variety of formal methods and applies them to software-specification development. Assumes a firm grounding in mathematical logic, knowledge of proof techniques, and skill in the translation of problems expressed
in English into predicate logic.
Prerequisite: Mathematics 120 or 130.
Course Type(s): none

SE 312 Cr. 3.0
Software Verification, Validation, and Maintenance
Software verification, validation, and maintenance. Covers inspections of requirements, design and code, as well as testing, the handling of change requests, software evolution, code comprehension, and change management.
Prerequisites: Software Engineering 104 and Computer Science 176 or 275.
Course Type(s): none

SE 351 Cr. 3.0
Microprocessor Laboratory
Introduces the student to microprocessor-based, hardware-interface design. Provides practice in developing software that drives the interfaces between a microprocessor and the outside world. Topics include: logic circuit analysis and synthesis, digital hardware components, microprocessor system architecture, and assembly and C/C++ language programming of input/output device drivers.
Prerequisite: Mathematics 120 or 130.
Course Type(s): none

SE 352 Cr. 3.0
Embedded and Real-Time Software
Familiarizes students with the fundamental issues related to embedded and real-time software systems and gives them an opportunity to become familiar with a commercially available system for developing and testing embedded and real-time software. Topics include: definition of embedded systems, process concurrency, interprocess communications, synchronization, and process scheduling.
Prerequisite: Software Engineering 351.
Course Type(s): none

SE 353 Cr. 3.0
Comparative Languages
Begins with a history of the development of programming languages that provides the background necessary to understand programming-language design and evaluation. This is followed by an introduction to the basic programming language constructs and then critically comparing their implementation in some of the most common languages. Included is a discussion of the advantages and disadvantages of modern programming languages for a variety of applications. Some of the languages discussed are LISP, C, Small Talk, C++, Java, Ada, PL/1, and Prolog.
Prerequisite: Computer Science 176 or 275.
Course Type(s): none

SE 356 Cr. 3.0
Internet Technologies for Software Engineers
Provides an intensive look at the leading-edge technologies that are used to build internet applications, what they do, and how they do it. Topics covered will include: hypertext markup language, cascading style sheets, scripting languages, active server pages, Pert/CGI, and the extensible markup language.
Prerequisites: Computer Science 102 and Computer Science 176 or 275.
Course Type(s): none

SE 357 Cr. 3.0
Engineering Web-based Systems
A practical introduction to the principles, methods and tools required to create high-quality software applications for the distributed, client-server context of the Web. Emphasis is on architectural designs, and language and data access methods that are common in web-based systems.
Prerequisites: Software Engineering 205 and 207.
Course Type(s): none

SE 370 Cr. 3.0
Program Development Under Unix
Introduction to the use of the UNIX operating system and its utilities for incremental and distributed program development, maintenance, and debugging. The course covers the UNIX shell, utilities, and program development tools that are used for large projects involving multiple developers on multiple machines. Three hours per week.
Prerequisite: Computer Science 176 or 275 passed with a grade of C or higher. Also listed as Computer Science 370.
Course Type(s): none

SE 402 Cr. 3.0
Human Computer Interaction
Covers basic human psychology, computer technology, and the interface between them. The key topics of HCI are examined, grounded in the context of usability and the design lifecycle.
Prerequisite: Completion of forty eight credits of coursework.
Course Type(s): IM

SE 403 Cr. 3.0
Software Process Improvement
Students will be introduced to the various aspects related
to software processes. It will focus on the definition and modeling of a software process, as well as on methods for process assessment and improvement. The concepts will be illustrated through process-improvement case studies, followed by hands-on experience with the improvement of the personal software-development process.

Prerequisite: Computer Science 305.

Course Type(s): none

**SE 418 Cr. 3.0**

**Software Project Management**

Project management and its application to software-development projects. Emphasis will be on planning, organizing, monitoring, and controlling. Students will learn how to develop work breakdown structures, estimate task durations, assign resources, specify network precedence, and determine a project’s critical path. Methods for scheduling in the face of resource constraints will be included, as well as function point counting, algorithmic models for estimating total project cost, and software tools for project planning and monitoring.

Corequisites: Computer Science 176 or 275; and English 101 and 102 or permission of the instructor.

Course Type(s): WT

**SE 485A Cr. 3.0**

**Software Practicum**

Team work on substantial software projects submitted by corporate sponsors. Interim progress reports required, with a final formal defense and presentation to corporate staff, faculty, and other students in the course. At the end of SE 485A, students must submit their software engineering portfolio for review by the Software Engineering faculty.

Prerequisites: Computer Science 305, Software Engineering 205, 207, and 312.

Corequisite: Software Engineering 402.

Course Type(s): EX, RD

**SE 485B Cr. 3.0**

**Software Practicum**

Team work on substantial software projects submitted by corporate sponsors. Interim progress reports required, with a final formal defense and presentation to corporate staff, faculty, and other students in the course. At the end of SE 485B, students must submit their software engineering portfolio for review by the Software Engineering faculty.

Prerequisite: Software Engineering 402.

Course Type(s): EX, RD

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**THEATRE**

**TH 101 Cr. 3.0**

*Theatre Appreciation*

Introduction to the elements of theatre, including film and TV as theatre media. Study of plays from script to stage through readings, lectures, and theatre-going experiences.

Course Type(s): AT

**TH 150 Cr. 3.0**

*Introduction to the Theatre*

Introduction to the elements of theatre, including cinema and television as theatre media; the study of a representative group of plays from script to stage.

Course Type(s): none

**TH 154 Cr. 3.0**

*Acting I (Non-Major)*

An introduction to acting the dramatic situation through guided improvisation based on material from dramatic literature.

Course Type(s): none

**TH 155 Cr. 3.0**

*Acting I (TH Major)*

Designed to enable students to explore the use of their imagination, instrument, and sense of playing to work within an ensemble. Basic skills, such as playing with intuition and listening and responding openly to a partner within given circumstances, will be the primary goals.

Course Type(s): none

**TH 156 Cr. 3.0**

*Acting II (TH Major)*

Builds from the previous exercise work with working on assigned scenes. Work will begin on contentless scenes and finish the term working a scene from important plays of American theatre. Students will study the breakdown of a scene, structure, both verbal and non-verbal, and effective communication of intent.

Prerequisite: Theatre 155.

Course Type(s): none

**TH 190 Cr. 1.0**

*Applied Theatre Techniques I*

First-year students are required to take this hands-on, practical course in building, painting, and crewing a department production.

Course Type(s): none
TH 191  Applied Theatre Techniques II  Cr. 1.0
Second semester in Applied Theatre requires students to take a more responsible position in the hands-on practical building, painting, and crewing of a department production. Prerequisite: Theatre 190.
Course Type(s): none

TH 230  Acting II (non-Major)  Cr. 3.0
Roles as an integral part of play production; the basic principles of acting through lectures, discussions, and the rehearsal and performance of a variety of scenes. Prerequisite: Theatre 154.
Course Type(s): none

TH 231  Acting III (Major)  Cr. 3.0
Study of styles. Beginning work on classic texts, such as Shakespeare, Moliere, or Restoration Comedy. Text analysis, scansion, and speaking with authority will be emphasized. Text work in sonnets and scenes. Prerequisites: Theatre 155 and 156.
Course Type(s): none

TH 232  Acting IV (Major)  Cr. 3.0
The fourth semester will be an extension of styles of work. Advanced work in characterization, the development of physical and emotional involvement, and working with objectives, obstacles, and actions, with emphasis on classic styles. Prerequisites: Theatre 155, 156, and 231.
Course Type(s): none

TH 240  Actors’ Equity Workshop I  Cr. 3.0
An introduction to the basic rules and regulations of Actors’ Equity Association’s Small Professional Theatre Agreement and to basic stage management principles. Lectures will be supplemented with extensive, practical lab hours in which the students put into practice in a professional setting those elements learned in the class. Course Type(s): none

TH 245  Theatre Performance Practicum I  Cr. 1.0
Involves actual experience performing in a university production. Credit can be specified for a student’s acting, singing and/or dancing in a department sponsored production. The Performance Practicum can be taken in any combination simultaneously or consecutively for a total of three credits towards the Theatre or Musical Theatre Minor. Any credits for Practicum courses beyond that go towards free electives. This course is not available to Theatre majors.
Course Type(s): none

TH 246  Theatre Performance Practicum II  Cr. 1.0
Involves actual experience performing in a university production. Credit can be specified for a student’s acting, singing and/or dancing in a department sponsored production. The Performance Practicum can be taken in any combination simultaneously or consecutively for a total of three credits towards the Theatre or Musical Theatre Minor. Any credits for Practicum courses beyond that go towards free electives. This course is not available to Theatre Majors.
Course Type(s): none

TH 247  Theatre Performance Practicum III  Cr. 1.0
Involves actual experience performing in a university production. Credit can be specified for a student’s acting, singing and/or dancing in a department sponsored production. The Performance Practicum can be taken in any combination simultaneously or consecutively for a total of three credits towards the Theatre or Musical Theatre Minor. Any credits for Practicum courses beyond that go towards free electives. The course is not available for Theatre Majors.
Course Type(s): none

TH 251  Introduction to Theatre Production and Design  Cr. 3.0
Introduction to scenic, costume, lighting, and sound design and technology, including: the problems involved in executing the technical aspects of a theatrical production; preparation of working drawings, light plots, scale models; ability to hang, focus, and program theatrical lighting; solutions of make-up and costuming problems. Course Type(s): none

TH 290  Applied Theatre Design  Cr. 1.0
Students will work intensely with a designer for a department production. Student will be responsible for the design and construction of one facet of a total design: namely, a prop, a costume, lights, or some integral part of a production design.
Prerequisites: Theatre 190 and 191.
Course Type(s): none

TH 291 Cr. 1.0
Applied Theatre Management
Students will work intensely with a management office concerning a department production. Students will be involved with hands-on production of publicity, company management, box office, public relations, casting, historical records, and/or dramaturgy.
Prerequisites: Theatre 190 and 191.
Course Type(s): none

TH 298 Cr. 1.0 - 3.0
Special Topics in Theatre (200 Level)
An intensive study of a particular subject or problem in theatre to be announced prior to registration.
Course Type(s): none

TH 299 Cr. 1.0 - 3.0
Independent Study in Theatre
Directed, individual study of theatre in areas of special interest.
Prerequisite: Prior permission of the directing professor and department chair.
Course Type(s): none

TH 301 Cr. 3.0
Theatre History I
The development of theatre from the Classical Greek through the Elizabethan period. Examination of plays, playwrights, architecture, scenery, costumes, mechanics, technology, historical, and sociological influences.
Prerequisites: English 101 and 102 or permission of the instructor.
Course Type(s): WT

TH 310 Cr. 3.0
Musical Theatre History
The Broadway musical is considered by many to be America's greatest contribution to the world of theatre. Examines the history and evolution of American musical theatre. Special attention will be paid to composers, lyricists, directors, choreographers, and performers who have made significant contributions to the genre. Material will be discussed chronologically from minstrelsy to the contemporary mega-musical.
Course Type(s): none

TH 335 Cr. 3.0
Group Techniques in Performance of Literature
Various theories, methods, and techniques used in group performances with a concentration on Readers Theatre and Chamber Theatre; selected literature is arranged, analyzed, and performed. Also listed as Communication 335.
Prerequisite: Communication 231.
Course Type(s): none

TH 340 Cr. 3.0
Actors' Equity Workshop II
Builds upon the basic knowledge gained in Theatre 240 through the depth study of Actors' Equity Association's two most widely-used contracts, the LORT (League of Resident Theatres) and Production (Broadway, Off-Broadway, National Tour) agreements. Lectures will be supplemented with extensive, practical lab hours in which the students put into practice in a professional setting those elements learned in the class.
Prerequisite: Theatre 240.
Course Type(s): none

TH 349 Cr. 3.0
Postcolonial Drama and Film
Study of postcolonial plays and films from Ireland, Australia, Africa, and India, including such postcolonial themes as language, religion, and race. Students will discuss the ways in which the theatrical and cinematic media are used to express the loss of, and quest for, national and individual identity in the aftermath of empire. The students will not only become versed in postcolonial theory, but also in the individual dramatic styles/structures of each of the nations discussed.
Course Type(s): GU

TH 355 Cr. 3.0
Dramatic Literature
Analysis of representative plays of the major forms of the drama-tragedy, comedy, tragicomedy, and romance. Emphasis on the literary and performance aspects.
Prerequisite: Theatre 150.
Course Type(s): none

TH 357 Cr. 3.0
Acting for Television
Techniques that the on-camera performer uses in various TV situations, commercials, daytime drama, situation comedy, and serious drama. Also listed as Communication 357.
Prerequisite: Theatre 154.
TH 361 Cr. 3.0
Play Direction
Play analysis, casting procedures, composition, movement, stage business, backstage organization, rehearsal routine, and theatre management from the standpoint of the creative director.
Prerequisite: Theatre 230.
Course Type(s): none

TH 389 Cr. 1.0 - 3.0
Internship in Theatre
Supervised practical experience in theatre; repeatable for credit.
Prerequisites: Departmental approval and Junior standing.
Course Type(s): EX1

TH 390 Cr. 1.0
Applied Theatre
Students will work hands-on with an appropriate faculty member on an advanced project in theatre, musical theatre, or music production. An alternative possibility would be to do a pre-internship assignment with a local theatre.
Prerequisites: Theatre 190, 191, and Theatre 290 or 291.
Course Type(s): none

TH 391 Cr. 1.0
Applied Theatre
Students will work hands-on with an appropriate faculty member on an advanced project in theatre, musical theatre, or music production. An alternative possibility would be to do a pre-internship assignment with a local theatre.
Prerequisites: Theatre 190, 191 and either Theatre 290, 291 or 390.
Course Type(s): none

TH 398 Cr. 3.0
Special Topics in Theatre (300 Level)
An intensive study of a particular subject or problem in theatre to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

TH 399 Cr. 3.0
Independent Study in Theatre
Directed individual study of theatre in areas of special interest.
Prerequisite: Prior permission of the directing professor and department chair.
Course Type(s): none

TH 401 Cr. 3.0
Theatre History II
The development of theatre from the Restoration through the Modern Period. Examination of plays, playwrights, architecture, scenery, costumes, mechanics, technology, historical, and sociological inferences.
Prerequisites: Theatre 301; and English 101 and 102 or permission of the instructor.
Course Type(s): WT

TH 441 Cr. 3.0
Summer Theatre Workshop I
Basic technical theatre, theatre management, elements of acting, children’s theatre, costuming and make-up, lighting and set design; four dramatic productions.
Course Type(s): none

TH 442 Cr. 3.0
Summer Theatre Workshop II
Basic technical theatre, theatre management, elements of acting, children’s theatre, costuming and make-up, lighting and set design; four dramatic productions.
Course Type(s): none

TH 453 Cr. 3.0
Creative Dramatics
The goal of Creative Dramatics is to equip teachers with the ability to use creative dramatics, creative play, and theatre games in the classroom as a tool for teaching all subjects. Also useful for actors and recreation or community leaders who work with children and want to learn new and creative techniques. The emphasis in this class is on the participant and participation. Students should attend comfortably dressed.
Course Type(s): none
TH 480 Cr. 3.0
Problems in Theatre Practice
Independent projects and intensive research under the guidance of one or more members of the department; creative work in acting, costuming, creative dramatics, directing, lighting, scenic design, and playwriting.
Prerequisite: Permission of the department chair.
Course Type(s): none

TH 498 Cr. 3.0
Special Topics in Theatre (400 Level)
An intensive study of a particular subject or problem in theatre to be announced prior to registration. May be conducted on either a lecture-discussion or a seminar basis.
Prerequisite: As announced in the course schedule.
Course Type(s): none

TH 499 Cr. 1.0 - 3.0
Independent Study in Theatre
Directed individual study of theatre in areas of special interest.
Prerequisite: Prior permission of the directing professor and department chair.
Course Type(s): none