

African and African American Studies

AFR 132 Introduction to Race in America (SOC)

Prerequisite: Completion or waiver of MAT 010

Offered: Typically annually (next offered Fall 2013)

In America's last five centuries, the concept of race changed from a literary meaning about the race of humankind, toward popular folkways of seeing, describing, and categorizing individuals and groups based on pseudo-scientific explanations of physical and cultural traits associated with groups from various nations and regions. This course allows us to examine social patterns of these interracial and interethnic encounters and to analyze sociologically factors that help to maintain or change the domination or subordination established among the groups in our contemporary American society.

African Americans', Appalachians' and Women's Perspective.

1 Course Credit

AFR 135 African-American Women Writers (ENG/WGS)

Offered: Typically alternate years (next offered Fall 2013)

How have African-American women writers coped with invisibility? How have they emerged from silence and created visions of identity and culture? This course will examine the writings of African-American women as a separate and distinct cultural group and the ways in which their writing is an expression of the culture and a historical record of its development. African Americans',

Appalachians', and Women's Perspective.

1 Course Credit

AFR 138 Black Music Ensemble (MUS 135)

Prerequisite: Permission of instructor

Offered: Typically Fall and Spring terms

Open to all Berea students, this ensemble specializes in the performance of African-American sacred music, particularly spirituals and gospel music. The ensemble meets twice weekly for one-and-one-half hours. Regular attendance is required at all rehearsals and performances including annual Fall and Spring concerts, as well as several other programs each term. Membership by permission of instructor after audition. May be repeated for credit. Course Fee: \$15 (for transportation and robe cleaning)

1/4 Course Credit

AFR 141 African-American Literature (ENG)

Offered: Typically alternate years (offered Fall 2012)

Representative selections from fiction, poetry, and nonfiction prose of African-American authors from slavery to the present. Focus on historical and social conditions reflected in the works and relationships between African-American literature and other American literary movements. African Americans',

Appalachians' and Women's Perspective and Int'l Non-Western Perspective.

1 Course Credit

AFR 165 Intro, to African-American History (HIS)

Offered: Typically Fall and Spring terms

This course surveys the formation of African American cultural identity from the early National period to the present. This course will touch upon major formative events in African American history: slavery, the early formation of African American cultural institutions, the reconstruction of African American life after slavery, northern migration during the World Wars, the civil rights and black power movements of the 1950s and 1960s, and urbanization and class structure in the 1980s and 1990s. Western History

Perspective and African Americans', Appalachians', and Women's Perspective.

1 Course Credit

AFR 202 Women and African Americans in Politics (PSC/WGS)

Prerequisite: GSTR 210

Offered: Typically every Fall Term

A study of the participation of women and African Americans in the American political process. Theories of representative democracy and an introduction to the historical struggles for equal rights provide a context for the investigation of contemporary electoral politics, governance, grassroots politics, and public policy. Students examine the progress of women and African American candidates, and of related public policy issues, throughout the current election and its immediate aftermath. African Americans', Appalachians', and Women's Perspective. NOTE: In order to receive African and African American Studies or Women's and Gender Studies major or minor credit, the student's major project must focus on African Americans or women, respectively.

1 Course Credit

AFR 204 African American Intellectual Thought

Prerequisite: GSTR 110

Offered: Typically every Fall Term

This course will examine, assess, and evaluate the intellectual arguments of African American leaders, thinkers, and activists from the Holocaust of enslavement to the contemporary era of legal desegregation and beyond. This course is an elective for African and African American Studies majors and minors. However, it does not fulfill the African American Appalachian, and Women's perspective.

1 Course Credit

AFR 212 Literature of Caribbean Women (ENG/WGS)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered 2013-2014)

This course is an exploration of voices of women in the Caribbean. We will read works by writers from the Anglo-Caribbean, French Caribbean, and Hispanic Caribbean. These writers represent the islands of Jamaica, Cuba, Guadelupe, Haiti, the Dominican Republic, and Barbados. Their works investigate issues of racial configuration, relationships between women, politics, colonialism and post-colonialism, and the creation of the island space. We will look at the long, turbulent history of the island of Hispaniola from the perspective of both the Haitian and Dominican, the complex history of each of these island nations, and other important topics. African Americans', Appalachians', and Women's Perspective and World Culture (Non-Western) component of the International Perspective.

1 Course Credit

AFR 222 Introduction to African-American Studies

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

With an emphasis on the humanities and social sciences, this interdisciplinary course provides an opportunity for students to evaluate the historical contributions and contemporary status of African-Americans. Beginning with an historical overview, the course surveys the following topics: social institutions, creative productions, political economy and social class, personal identity and ethnicity, and contemporary status. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

AFR 225 Environmental Justice (APS/PSJ/SENS/WGS)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Spring 2013)

This course is an introduction to the study of Environmental Justice and issues associated with access to, and equitable sharing of, the products of a healthy environment, including clean water and air, healthy food, non-toxic communities, and environmental security. The history of the environmental-justice movement beginning with its foundations in the Civil Rights and Environmental movements will be studied, followed by a survey and analysis of current issues of environmental justice, particularly in relation to minority and poor communities in the United States and worldwide. Emphasis is placed on the role of women and African Americans as participants in the environmental-justice movement, and the analysis of environmental-justice issues in Appalachia. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

AFR 230 African Americans in Appalachia (APS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2013)

This course explores the social, political, economic, and cultural experiences of African Americans in Southern Appalachia from the beginning of European settlement to the contemporary era. The course engages students in developing an understanding of the historical experiences of African Americans in Appalachia, the discussion of issues such as the images and stereotypes of Appalachians and African Americans, and the examination of migratory patterns, education, labor organization, and religion. The course places special emphasis upon the interaction and convergence of a distinctly Appalachian experience among African Americans from the region. The course studies traditional themes in Appalachian Studies within the context of African American racial experiences. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

AFR231 African American Religious Traditions

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered term yet to be determined)

An introduction to religious traditions within the African American community. Presents overviews and analyses of these traditions from their African root to the present. Particular attention is given to the development of thought, ethics, and theology for survival, nurturing, and "meaning-making" that African American religious communities pass down from generation to generation.

1 Course Credit

AFR 234 African-American Music: An Overview (MUS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically every Spring Term

The study of African-American music and musicians within the general framework of American society, tracing the development of the music from its African origins to its impact upon and fusion with American music and culture. Although the main focus will be placed upon music indigenous to African-American culture, study will encompass significant African-American musicians in the European classical music tradition. Arts Perspective and African Americans', Appalachians', Women's Perspective.

1 Course Credit

AFR 260 Survey of African History (HIS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

A survey of African history from the ancient period to the late 20th century. Although the major concentration is upon "Sub-Saharan Africa" and the effects of the enslavement trade and colonialism, the course does provide a brief discussion of significant continent-wide highlights from the ancient and medieval periods. The history of Africa's Independence movements and the post-independence era also are addressed. World Culture (Non-Western) component of the International Perspective. 1 Course Credit

AFR 305 Interracial Communication (COM)

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically alternate years (next offered Spring 2013)

An examination of the role of communication in the construction of race as a basis for similarity/difference; the ways that communication about race form a basis for individual, cultural, and national identities; and theories about interracial and intercultural communication. Considers communicative dynamics of interracial conflict, friendships, intimate relationships, families, and work relationships through-readings, discussion, writing- and research-based assignments, and media examples. NOTE: Noncredit for students who completed COM 386: *Interracial Communication* in Spring 2009.

1 Course Credit

AFR 350 Seminar in African and African American Studies

Prerequisites: AFR 222, AFR/HIS 165 (or concurrent enrollment) and junior status (or permission of instructor)

Offered: Typically every year according to programmatic needs

Utilizing primary and secondary source material with special attention to the United States, students will examine the African experience in the Americas from the 14th century to the present. Movements, periods, events and individuals who represent major social, economic, and political African American thought will be surveyed. Although this course will focus primarily on the African experience in the Americas, which includes the Caribbean, attention will also focus on the major movements for social and political justice on the continent of Africa, and the major influences on these movements. This will also include a culminating experience which allows students to demonstrate mastery of the theories, concepts, and issues central to the field of African and African American Studies. For juniors, this will result in either a research paper or group project. 1 Course Credit

AFR 356 Seminar in African-American History (HIS)

Prerequisites: HIS 161 and 162; or AFR/HIS 165

Offered: Typically every other year according to programmatic needs

Through examination of a key period in African American history, students will develop a deeper appreciation of this history and a better understanding of sources and methodologies historians use to analyze past human experiences. By reading key primary and secondary materials, students will develop an understanding of the way cultural, social, economic, and political issues interact to shape the period. May be repeated for credit, provided the topic differs from that previously studied. NOTE: Certain sections of this course may be approved to meet Perspective Areas in the General Education Program. Check the *Schedule of Courses* for term-specific information. African Americans', Appalachians', Women's Perspective and Western History Perspective. 1 Course Credit

AFR 450 Seminar in African and African American Studies II

Prerequisites: AFR 222, AFR/HIS 165 and Senior Status or permission of instructor

Offered: Typically every fall according to programmatic needs

Utilizing primary and secondary source material with special attention to the United States, students will examine the African experience in the Americas from the 14th century to the present. Movements, periods, events and individuals who represent major social, economic, and political African American thought will be surveyed. This will include a culminating experience which 'allows students to demonstrate mastery of the theories, concepts, and issues central to the field of African and African American Studies. For seniors, this will be formulated in consultation with the professor. Students will be encouraged to investigate novel areas of research and inquiry. This will be the capstone course for AFR majors.

1 Course Credit

AFR 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

AFR 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

AFR 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

AFR 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

AFR 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Agriculture and Natural Resources

ANR 100 Intro. to Agriculture and Natural Resources

Offered: Typically every Fall Term

An overview of ecological production systems managed to generate food, fiber, fuel, and other natural resources for human use and the academic disciplines associated with them. The course will survey the diverse natural-resource systems upon which we depend but will emphasize biological systems managed for the production of renewable resources. Historical and current understandings of sustainable resource use will be examined and applied to evaluate local, national, and international issues confronting human society today. Students will be introduced to the fields of agriculture, forestry, and wildlife and fisheries management, and have the opportunity to explore careers in these areas. This course should be taken during the first term by all students intending to major or minor in Agriculture and Natural Resources and by any students interested in exploring the major.

1/2 Course Credit

ANR 110 Animal Science

Offered: Typically every Fall Term

Introduction to the fundamental principles of animal science. Emphasis on breeding, nutrition, management, and marketing of domestic animals. The role of genetics, health, and reproductive management on the productivity of various species will be investigated. Three lectures and one laboratory session each week. Natural Science Lab Course.

1 Course Credit

ANR 130 Plant Science

Prerequisite: Completion or waiver of MAT 012

Offered: Typically every Spring Term

This course is designed to develop an understanding of the processes and factors affecting plant growth and development. Biological, soil, genetic, and environmental factors are discussed in relation to agronomic, horticultural, and forest plants. Principles of crop production and management are introduced with emphasis on agroecology and sustainable practices. Three lectures and one laboratory session each week. Natural Science Lab Course.

1 Course Credit

ANR 240 Soil Science

Prerequisite: ANR 130 or BIO 114

Offered: Typically every Fall Term

An applied study of physical, chemical, and biological properties of soils, emphasizing an ecological approach to management in a variety of contexts including field crops, horticultural crops, forests, and urban environments. This course covers soil formation and classification; fertility for plant nutrition; energy, water, and nutrient cycling; soil degradation and conservation; and soil-quality testing. Students conduct field and laboratory analyses, group and individual research projects, and reviews of the soil-science literature. Three lectures and one laboratory session each week.

1 Course Credit

ANR 265 Bees and Beekeeping

Prerequisite: Any ANR or BIO course; or permission of instructor

Offered: Typically every Fall Term

An introduction to honeybee biology and the practice of beekeeping, also known as apiculture. Students will learn how an understanding of bee biology, generated through observation and experimentation, has been applied to develop methods-simple as well as intricate-to manage honeybee colonies for various purposes, such as honey and wax production and crop pollination. Topics covered will include honeybee biology (anatomy, physiology, behavior, ecology, and taxonomy), crop pollination, and beekeeping (historical and current practices). Students will gain practical experience by working with hives, assessing hive conditions, diagnosing problems, and making management decisions. NOTE: Noncredit for students who completed ANR 365.

1 Course Credit

ANR 310 Nutritional Studies

Prerequisites: ANR 110 or BIO 110; and CHM 131, CHM 134, or CHM 113; or perm. of instructor

Offered: Typically every Spring Term

Basic processes of digestion, absorption, and metabolism of nutrients. Emphasis is on feedstuff selection and analysis, animal and human nutrient needs, and ration formulation and dietary analysis for a wide variety of species. Three lectures and one laboratory session each week. 1 Course Credit

ANR 312 Advanced Livestock Systems

Prerequisite: ANR 110 or permission of instructor

Offered: Term not yet determined

An investigation into current knowledge and applied concepts in the production of livestock. Includes reviews of research in breeding, nutrition, reproduction, and economics. Emphasis on applied management skills, including health and reproductive-management techniques, feed analysis, cost accounting, and marketing. Three lectures and one laboratory session each week. May be repeated for up to two credits. 1 Course Credit

ANR 320 Animal Diseases

Prerequisite: ANR 110 or BIO 110

Offered: Term not yet determined

Causes, symptoms, treatments, and diagnoses of animal diseases with emphasis on prevention and control. Three lectures and one laboratory each week. 1 Course Credit

ANR 324 Nutritional Physiology and Biochemistry

Prerequisite: CHM 113,131, or 134); or permission of instructor

Offered: Typically alternate Fall Terms (next offered Fall 2013)

The physiological chemistry of animal nutrition, measurement of the body needs and feed value, the nutritive requirements for body processes, and productive functions. Three lectures and one laboratory session each week. 1 Course Credit

ANR 325 Animal Reproduction and Breeding

Prerequisite: ANR 110 or BIG 110, or permission of instructor

Offered: Typically alternate Spring Term (next offered Spring 2014)

Physiological processes of reproduction, including gonadal function, endocrine relationships, fertility, and factors affecting reproductive efficiency. In addition, the course covers the application of genetics to the improvement of farm animals. Both qualitative and quantitative genetics will be stressed. Three lectures and one laboratory session each week. 1 Course Credit

ANR 330 Forage and Row Crop Production

Prerequisite: ANR 130 or BIO 114

Offered: Typically alternate Spring Terms (next offered Spring 2013)

This course is designed to develop an understanding of the biology, management, and uses of major crop plants. Interactions between cropping systems and the larger ecosystem will be discussed. Soil, genetic, and environmental factors will be related to crop management, yield, and quality, with emphasis on sustainable practices and planning sustainable systems. Both regionally and nationally important crop species will be discussed. Three lectures and one laboratory session each week. 1 Course Credit

ANR 342 Soil and Water Conservation

Prerequisite: ANR 240 (formerly ANR 340) or permission of instructor

Offered: Typically alternate Fall Terms (next offered Spring 2014)

This course examines hazards, measurements, causes, and solutions for erosion, sedimentation, and pollution of soils, surface, and groundwater. The primary perspective will be agricultural, but issues

related to urban development, engineering, mining, and other land uses also will be discussed. Linkages between soil and water resources and environmental quality will be emphasized. Appalachian examples will be used as models whenever possible. Three lectures and one laboratory session each week.

1 Course Credit

ANR 350 Horticulture

Prerequisite: ANR130 or BIO 114

Offered: Typically alternate Spring Terms (next offered Spring 2014)

This course covers plant propagation, soil and pest management, harvesting, storage, processing, and marketing methods for vegetables, fruits, herbs, and flowers. This course takes an agro-ecological approach to production and management and emphasizes methods appropriate for home gardens and small farms. A diverse array of field and greenhouse practices and systems are examined and evaluated within the context of sustainability. Three lectures and one laboratory session each week.

1 Course Credit

ANR 360 Forest and Wildlife Management

Prerequisite: ANR 130 or ANR 110 or BIO 110

Offered: Typically alternate Spring Terms (next offered Fall 2012, then Spring 2014)

Course integrates ecological, economic, philosophical, and historical aspects of forest and wildlife management. Students learn the theoretical and practical elements of modern natural-resource management, such as species identification, site preparation and planting, habitat conservation, field sampling, biological monitoring, and harvesting. Local, regional, and global topics are covered, including the role of forests in global ecological processes, conservation of biodiversity, Ecological economics, and the sustainability of forest and wildlife uses. Three lectures and one laboratory session each week.

1 Course Credit

ANR 375 Farm Resource Management

Prerequisite: ECO 102

Offered: Typically every Fall Term

Course emphasizes the linkages between the physical production systems and the economic and business systems used in the food and fiber industries. In addition, the social aspects of management and decision making will be addressed. Particular emphasis will be placed on organization and use of resources in a farm business. Includes investigation into the many off-farm factors that influence on-farm decisions. Three lectures and one laboratory session each week.

1 Course Credit

ANR 492 Senior Seminar Course

Prerequisites: At least two ANR 30G-level electives and senior standing

Offered: Typically every Fall Term

An interdisciplinary capstone course in which students integrate the knowledge they have gained during their undergraduate education in both the general and agricultural and natural resource discipline areas. Students will work with the guidance of individual faculty members to research, develop, and complete a project that reflects professional-level understanding of their discipline, as well as the ability to effectively communicate through oral and written presentations. Students will be able to select a business or a research emphasis for their project.

1/2 Course Credit

ANR 494 Labor/Field Learning Experience

Prerequisite: Permission of the Program Coordinator

Offered: Typically as student interest and faculty availability allow

Labor/Learning experience that may be completed through an experience with selected on- or off-campus agencies under the direction of a staff member in the Agriculture and Natural Resources Program. Successful completion of ANR 395/495 or 140 hours in an approved labor position may satisfy this requirement. **NOTE:** Should be taken prior to the senior year.

Noncredit Course

ANR 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

ANR 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

ANR 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

ANR 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

ANR 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Appalachian Studies

APS 113 Appalachian Weaving

Prerequisites: none

Typically offered every Fall Term

An introductory experience explores the craft of weaving and its importance in Southern Appalachia. This course focuses on weaving in Southern Appalachia with particular attention to the 1890-1940's including the Settlement schools, the Fireside Industries, and the individuals who were critical to making these institutions work. This course has a strong hand-on learning component of weaving on the 4-8 harness dobbie floor loom which will support assigned readings and class discussions. No previous weaving experience is necessary. Six in class hours per week. Course fee: \$15, plus the cost of materials. African American, Appalachian, and Women's Perspective

1 Course Credit

APS 121 Appalachian Cultures

Offered: Typically annually

A study designed to give Appalachian students an opportunity to establish their own identity and give others a base for understanding Appalachian people, by exploring the values, attitudes, strengths, and problems of Appalachian people. This course also is aimed at providing a foundation for further study and involvement in Appalachia. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

APS 140 Appalachian Literature (ENG)

Offered: Typically annually

Study of poetry, fiction, and oral literature of the region. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

APS 210 Health in Appalachia (HLT)

Prerequisites: PEH 100 or permission; and GSTR 110 (or waiver)

Offered: Typically annually

Health in Appalachia explores various dimensions of the environment that impact the health of individuals and the communities in which they live within the Appalachian region. The overarching frameworks used in this exploration consist of Bronfenbrenner's Ecological Model and the Six Dimensions of Health Wellness Model. Specific topics addressed include: education, religion, industrialization, economic development, access to health care, sexuality, domestic violence, race and ethnicity, and substance abuse. This course is designed for the non-professional interested in the health needs of all people living in the Appalachian region and will include directed readings, lectures, discussions, films, guest speakers, and field trips. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

APS 213 Appalachian Crafts (TEC)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

A laboratory course involving work in various craft media including metal, wood, textiles, ceramics, and various native Appalachian materials. Through these various craft media, the culture of the Appalachian people will be examined focusing on factors affecting the life and work of the Appalachian craftsman, including aesthetics versus function, advancing technology, and outside influences. Through skill development, students will gain insight into the problem-solving ability, lifestyle, and ingenuity of the Appalachian people. Opportunities will be given for in-depth study and skill development. Arts Perspective and African Americans', Appalachians', and Women's Perspective. Course Fee: \$10.

1 Course Credit

APS 215 Sustainable Appalachian Communities (SENS)

Prerequisite: GSTR 210

Offered: Typically annually

An introduction to the concept of sustainability as applied to communities in the Appalachian region. Ecological, social, and economic characteristics of Appalachia are reviewed as a context for case studies of communities within the region. A variety of approaches to sustainable development are explored. Students learn techniques for evaluating community sustainability, and participate in a service-learning or community-based research project that assists a local community to become more sustainable. African Americans', Appalachians', Women's Studies Perspective. NOTE: Noncredit for students who completed GST/SENS 210.

1 Course Credit

APS 220 Gender in Appalachia (WGS)

Offered: Typically as student interest and faculty availability allow

An interdisciplinary exploration of gender and its impact on the Appalachian region. Proceeding from the assumption that cultural constructions of sex, sexuality, and gender are basic to our understandings of the world, we will investigate such topics as family and community; intimacy, violence, and power; health and reproduction; home and work; religion and spirituality; masculinity and femininity; activism and resistance in Appalachia. The diversity of Appalachian experiences will be explored through fiction and non-fiction readings, films, and discussion. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

APS 224 Appalachian Music (MUS)

Offered: Typically as student interest and faculty availability allow

An introduction to the music that has been, and is, an important part of the culture of the Southern Appalachian region. Specific musical elements will be discussed in relation to ballads and songs, instrumental music, bluegrass, country, and various types of religious music. The importance of the region's music and musicians in the development of country and popular music in America is treated. Three periods per week. Arts Perspective and African Americans', Appalachians', and Women's

Perspective.

1 Course Credit

APS 225 Environmental Justice (AFR/PSJ/SENSIWGS)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Spring 2014)

This course is an introduction to the study of Environmental Justice and issues associated with access to, and equitable sharing of, the products of a healthy environment, including clean water and air, healthy food, non-toxic communities, and environmental security. The history of the environmental-justice movement beginning with its foundations in the Civil Rights and Environmental movements will be studied, followed by a survey and analysis of current issues of environmental justice, particularly in relation to minority and poor communities in the United States and worldwide. Emphasis is placed on the role of women and African Americans as participants in the environmental-justice movement, and the analysis of environmental-justice issues in Appalachia. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

APS 229 Contemporary Issues in Appalachia

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

Exploration of an issue (or issues) central to contemporary Appalachia and diverse responses that address the issuers). African Americans', Appalachians', and Women's Perspective.

1 Course Credit

APS 230 African Americans in Appalachia (AFR)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

This course explores the social, political, economic, and cultural experiences of African Americans in Southern Appalachia from the beginning of European settlement to the contemporary era. The course engages students in developing an understanding of the historical experiences of African Americans in Appalachia, the discussion of issues such as the images and stereotypes of Appalachians and African Americans, and the examination of migratory patterns, education, labor organization, and religion. The course places special emphasis upon the interaction and convergence of a distinctly Appalachian experience among African Americans from the region. The course studies traditional themes in Appalachian Studies within the context of African American racial experiences. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

APS 236 Folk Arts as a Cultural Expression

Offered: Typically as student interest and faculty availability allow

A study of traditional folk arts in a cultural setting, with particular attention to Appalachian traditions and their importance in the lives of people. The Appalachian arts of storytelling, folk singing, folk dancing, and handcrafting will be explored. An experience in each art will be arranged, the major contributors to the recent evolution in folk arts will be studied, and the potential of folk arts in modern society will be examined.

1 Course Credit

APS 253 Appalachian America (HIS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Fall 2014)

A broad survey of the history of the Appalachian region. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

APS 330 Community Analysis: The Appalachian Case (SOC)

Prerequisite: One introductory ECO, HIS, PSC, or SOC course

Offered: Typically as student interest and faculty availability allow

This course is a study of the history, demography, social structure, and forces promoting social change in the Appalachian rural community. The student will learn a sociological approach to understanding the

concept of community, its various systems, institutions, and groups. A community problem-analysis orientation will be followed. While studying the community in Appalachia, other community studies-American, European, and Third World-s-will be examined for comparative purposes, looking at content and method. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

APS 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

APS 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

APS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

APS 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

APS 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Art History

ARH 121 Survey of Western Art History I: Ancient through Medieval Art

Offered: Typically every Fall Term

A chronological consideration of the visual arts from pre-historic through Romanesque (Medieval times). Major developments in periods, styles, and artists will be discussed relative to time, place, and context.

1 Course Credit

ARH 124 Survey of Western Art History II: Renaissance through Modern Art

Offered: Typically every Spring Term

A chronological consideration of the visual arts from Gothic through the 19th century. Major developments in periods, styles, and artists will be discussed relative to time, place, and context.

1 Course Credit

ARH 210 Topics in Islamic Art and Architecture

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Spring 2013)

A course designed to examine a key period or significant topic in Islamic art and architecture, the course explores key tenets of the arts associated with Islamic society, religious and secular. The course will delve into specific topical and regional approaches found in the Middle East, North Africa, and/or Spain. May be repeated for credit, provided the topic differs from that studied previously. Arts Perspective and Religion Perspective.

1 Course Credit

ARH 220 Topics in Indian Art History

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered fall 2013)

Designed to examine a key period or significant topic in Indian art and architecture, the course explores key tenets of this religiously and culturally diverse society through artistic expression. May be repeated for credit, provided the topic differs from that studied previously. Arts Perspective and International Non-western Perspective. 1 Course Credit

ARH 230 Topics in Latin American Art

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered spring 2014)

Designed to examine a key period or significant topic in Latin American art, the course explores key tenets of this religiously and culturally diverse region through artistic expression. May be repeated for credit, provided the topic differs from that studied previously. Arts Perspective and International Perspective. 1 Course Credit

ARH 232 Classical Art and Archaeology

Prerequisite: GSTR 210

Offered: Typically as student interest and faculty availability allow

A survey of the visual and material cultures of the Classical world, from earliest times through the end of the Western Roman Empire. Architecture, sculpture, ceramics, painting, jewelry, tools, settlement patterns, human remains, and other types of evidence for ancient life and aesthetics are discussed in their historical contexts. Arts Perspective and Western History Perspective. 1 Course Credit

ARH 233 Art and Archaeology of the Ancient Near East and Egypt

Prerequisite: GSTR 210

Offered: Typically as student interest and faculty availability allow

A survey of the emergence of civilization in the ancient Near East and Egypt through the art and material culture of the region, from the Paleolithic period through the conquests of Alexander the Great. Architecture, sculpture, ceramics, painting, jewelry, textiles, tools, settlement patterns, human remains, and other types of evidence for ancient life, aesthetics, and thought are discussed in their cultural, technological, and historical contexts. NOTE: Noncredit for students who completed ART 286B in Spring 2009. Arts Perspective. 1 Course Credit

ARH 234 Introduction to Archaeological Methods

Prerequisite: GSTR 210

Offered: Typically as student interest and faculty availability allow

This course serves as an introduction to the practice of archaeology. We will survey why and how we do archaeology, and what practical, legal, and ethical constraints affect our decision-making processes. The course blends reading, lecture, and discussion with fieldwork and laboratory practice. NOTE: Noncredit for students who completed ARB 286H or ART 286B in Spring 2010. Social Science Perspective 1 Course Credit

ARH 238 History and Analysis of Craft

Prerequisite: GSTR 110 (or waiver)

Offered: Typically as student interest and faculty availability allow

A survey of the history of a craft and the range of concepts and techniques used to understand the objects and those who have produced and consumed them. It will focus on art historical, archaeological, and anthropological methods and discoveries and will incorporate lecture, discussion, and laboratory approaches. The craft under consideration will vary and will be established by the course instructor. Social Science Perspective 1 Course Credit

ARH 239 Native North American Art and Archaeology

Prerequisite: GSTR 210

Offered: Typically as student interest and faculty availability allow

A survey of the visual and material cultures of North America, from first colonization through the 17th century AD, with emphasis on the art and archaeology of prehistoric Kentucky and neighboring states. Ceramics, tools, earthworks, architecture, jewelry, textiles, settlement patterns, human remains, DNA evidence, and other types of evidence for prehistoric life and aesthetics are discussed in their cultural contexts. The techniques of art and archaeology that have revealed these structures and objects and allow us to interpret what we have found will be introduced, as will the legal and ethical controversies regarding the excavation, collection, and study of Native North American artifacts. World Culture (Non-Western) component of the International Perspective. 1 Course Credit

ARH 242 Medieval Art

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered spring 2013)

A survey of Medieval art in the West and the East from the early Christian period just prior to the advent of Constantine through the end of the French Gothic period and the Byzantine Empire. Arts Perspective and Western History Perspective. NOTE: Noncredit for students who completed this course as ART 242. 1 Course Credit

ARH 255 20th & 21st Century Art

Prerequisite: GSTR 210

Twentieth-century revolutions in the visual arts and their impact on 21st-century art. Students will study the interaction between the arts in the contemporary world and other forces shaping today's society. For Art majors, enrollment in ARH 245 is contingent upon completion of ARH 121 or 124 (formerly ART 120) with a grade of C or higher or permission of instructor. 1 Course Credit

ARH 263 Introduction to Museum Work

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically alternate years (next offered Fall 2013)

This course will look at the role of the Museum from its historical and theoretical beginnings to the challenges facing the field in the 21st century. Interdisciplinary in nature, this course incorporates hands-on experiences in the College's art and historical artifacts collections. Course fee: \$15. NOTE: Noncredit for students who completed this course as ART 286 in Fall 2007 or ART 263 in Fall 2009. 1 Course Credit

ARH 340 Seminar in Art History

Prerequisite: One 200-level ARH course or permission of the instructor

Offered: Typically every Fall Term

Advanced study in the area of Art History. Specific topic announced in the *Schedule of Classes*. May be repeated for credit, provided the topic differs from that studied previously. 1 Course Credit

ARH 450: Advanced Research in Art History

Prerequisite: ARH 340

Offered: Typically every Fall Term

The capstone course for the Art History concentration. A study of problems, conflicting interpretations involving specific periods, major writings, or classical writings of Art History. 1 Course Credit

ARH 186/286/386/486 Special Topics

Prerequisites: Determined by course instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

ARH 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

ARH 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

ARH 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow.

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

ARH 398/498 Directed Study

Prerequisite: Permission of instructor

Offered: Typically as student interest and faculty availability allow.

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Art Studio

ART 110 Design

Offered: Typically Fall and Spring terms

Two-dimensional and three-dimensional organizational problems involving the varied aspects of form and structure. Several different materials will be used to heighten awareness of process and imagination.

Six studio hours each week. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 111 Printmaking I

Offered: Typically every Fall Term

This course is an introduction to techniques and problem solving. A study of printmaking through intaglio and relief techniques, including etching and linoleum cut. Six in-class studio hours each week. Arts

Perspective. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 115 Drawing Fundamentals

Offered: Typically Fall and Spring terms

This course is an introduction to drawing, stressing observation and recording. A broad range of techniques and materials are presented. Three two-hour studio periods each week. Arts Perspective.

Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 116 Painting I

Offered: Typically every Fall and Spring Term

2An introductory studio experience exploring techniques and problem solving through oil paint on paper and canvas, using color palettes ranging from the simple to the complex, and while working from direct observation. Emphasis is placed on technical understanding, accuracy in observation, and forming the illusion of light and space on a two-dimensional surface. Lectures, discussions of historical and contemporary work, and in-class group critiques are employed to guide students towards developing a sense of individual artistic direction, visual literacy, and personal critical judgment. ARTS

PERSPECTIVE. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 123 Ceramics I

Offered: Typically Fall and Spring terms

An introductory studio experience in clay as a material for art making, including techniques of wheel forming and ceramic surfaces. Stoneware, slips, and glazes are the primary materials employed. Vessels and utilitarian pots are the primary formats. Critical observation of objects, critical discussion of art and design, and visual research in art are introduced. This course is a prerequisite for participation in the Ceramics Apprenticeship Program, which selects students based in part on performance in this course. Six in-class studio hours each week. Arts Perspective. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 125 Fibers I

Offered: Typically every Spring Term

An introductory studio experience exploring the techniques and expressive possibilities of the fibers medium through four-harness loom weaving (loom controlled and tapestry), embroidery, 3-D forms created through coiling and twining, and direct application surface design and resists with dyes. Fiber art will be studied with consideration given to the history of textiles and current artists and theories. Six in-class studio hours each week. Arts Perspective. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 130 Sculpture I

Offered: Typically every Spring Term

This course is an introduction to techniques and problem solving. A study of sculpture through direct and indirect techniques including casting and carving. Six in-class studio hours each week. Arts Perspective. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 206 Drawing II

Prerequisite: ART 110 and 115

Offered: Typically every Spring Term

This course approaches drawing as a medium for art making. Students will produce creative and original artwork relying on traditional and contemporary concepts, techniques, and materials. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 211 Printmaking II

Prerequisites: ART 110, with a grade of C or higher and ART 111; or permission of instructor

Offered: Typically every Spring Term

In this course students will continue to develop competence in the areas of tools, materials, techniques, and design as applied to advanced relief printmaking. The following relief printmaking techniques will be covered in the course: woodcut, multi-block color, reduction relief, calligraphy and viscosity. This course will employ problem-solving assignments that have a conceptual dimension. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 216 Painting II

Prerequisites: ART 115, with a grade of C or higher and ART 116; or permission of instructor

Offered: Typically every Spring Term

Expanding on the technical and observation-based skills developed in Painting I, this course will require the student to solve both conceptual and formal problems in oil paint. Techniques in new painting mediums are introduced. Class time focuses on observation based work, visual problem solving, critiques, and group discussions of painting as a historical and contemporary medium. To facilitate individual progress, actively working advanced level students are provided, when possible, with semi-private studio space outside of the group studio. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 223 Ceramics II

Prerequisites: ART 110 and ART 123 with grades of C or higher; or permission of instructor

Offered: Typically every Spring Term

Study of ceramic art making, including techniques of hand-building and expanded ceramic surface possibilities. Critical observation of objects, critical discussion of art and design, and visual research in art are expanded. Terracotta and low temperature glazes are the primary materials employed. Sculpture and vessel are the primary formats. Conceptual techniques, art sourcing, and developing personal voice are introduced. Student responsibility for personal studio logistics increases at this level. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials. 1 Course Credit

ART 225 Fibers II

Prerequisites: ART 110 and ART 125 with grades of C or higher; or permission of instructor

Offered: Typically every Fall Term

This course will expand on the fibers processes and materials used in ART 125 and introduce the student to conceptual problem solving using the Fibers medium. The first part of the class will be learning construction and surface techniques. The second part of the class will focus on using multiple fiber techniques as a means of personal expression, emphasizing the idea and its expression. Readings, textiles from the collection, and slide presentations will give the student a basic exposure to the history of textiles and current events and thoughts in Fiber Arts. Six in-class studio hours per week. Course Fee: \$15, plus the cost of materials. 1 Course Credit

ART 230 Sculpture II

Prerequisites: ART 110 and ART 130, with grades of C or higher; or permission of instructor

Offered: Typically every Fall Term

This course will present additional techniques and materials not offered in ART 130 and introduces conceptually based problem solving. Students will employ direct and indirect techniques, including welding and foundry casting. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials. 1 Course Credit

ART 311 Printmaking III

Prerequisite: ART 211 or permission of instructor

Offered: Typically every Spring Term

This course will present advanced techniques and require students to concentrate on a single media area. In consultation with the instructor, students will work using personally derived concepts and objectives. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials. 1 Course Credit

ART 316 Painting III

Prerequisites: ART 216 or permission of instructor.

Offered: Typically every Spring Term

Though similar to Painting II in format and structure, the advancing painting student solves conceptual and formal problems, both course-directed and self-directed, in a chosen painting or drawing medium. Personal goals are developed and directed with instructor guidance as the student further explores personal direction and individual expression. To facilitate individual progress, actively working advanced level students are provided, when possible, with semi-private studio space outside of the group studio. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials. 1 Course Credit

ART 323 Ceramics III

Prerequisite: ART 223 or permission of instructor

Offered: Typically every Spring Term

Ceramics III is a study that requires concentration in a specific subset of the ceramics continuum in medium, format, and firing temperatures. Course format includes both self-derived and instructor constructed assignments. Critical seeing, critical discussion, conceptual approaches, art sourcing, and personal voice are expanded. Each student develops personal artistic goals and objectives, builds content, and pursues expression in their work, with instructor guidance. To facilitate individual progress, actively working advanced level students are provided with semi-private studio space, when possible, within the group studio. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 325 Fibers III

Prerequisite: ART 225 or permission of instructor

Offered: Typically every Fall Term

The primary purpose of this course is to provide structured time, guidance, and feedback to students who have chosen to focus in fibers. Over the course of the term, students are expected to expand their visual vocabulary with advanced techniques that focus in a specific area within the fibers medium, to explore the history of fibers, and to produce personally derived conceptual work. Projects will be student directed with instructor guidance and should be designed to encourage growth, individual expression, and independent learning. Students also are expected to continue experimenting by continuing to build a vocabulary of materials and processes. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 330 Sculpture III

Prerequisite: ART 230 or permission of instructor

Offered: Typically every Fall Term

This course will present advanced techniques and require students to concentrate on a single media area. In consultation with the instructor, students will work using personally derived concepts and objectives. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials. 1 Course Credit

ART 411 Printmaking IV

Prerequisite: ART 311 or permission of instructor

Offered: Typically every Spring Term

This course requires students to concentrate on producing a conceptually directed independent body of work aimed at the senior exhibition. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 416 Painting IV

Prerequisites: ART 316 or permission of instructor.

Offered: Typically every Fall and Spring Term

Students will focus on producing a conceptually directed independent body of work aimed at the senior exhibition. Students are expected to articulate in precise visual language the goals and outcomes of their work, to show mastery of their chosen medium, and to produce a cohesive body of new work containing at least five significantly developed, finished pieces that are connected both visually and conceptually. Work will be student-directed with instructor guidance and criticism and should be designed to encourage growth, controlled individual expression, and independent learning. To facilitate individual progress, actively working advanced level students are provided, when possible, with semi-private studio space outside of the group studio. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 423 Ceramics IV

Prerequisite: ART 323 or permission of instructor

Offered: Typically every Spring Term

Students will develop a conceptually directed independent body of work aimed at the senior exhibition. This body of work will be cohesive, consisting of finished pieces that are connected both visually and conceptually. Students are expected to show command of their medium in order to convey content and to articulate that content in words as well as in the Object-visual. Students are expected to demonstrate visual and conceptual development throughout the course, and to pursue self-derived assignments with the assistance of critiques and discussions with the class and the instructor. To facilitate individual progress, actively working advanced level students are provided, when possible, with semi-private studio space within the group studio. Six in-class studio hours each week. Course Fee: \$15, plus the cost of

materials.

1 Course Credit

ART 425 Fibers IV

Prerequisite: ART 325 or permission of instructor

Offered: Typically every Fall Term

In this course, students will focus on producing a conceptually directed independent body of work aimed at the senior exhibition. Students are expected to expand their visual vocabulary within the fibers medium and to produce a cohesive body of work containing at least five pieces that are connected both visually and conceptually. Projects will be student directed with instructor guidance and should be designed to encourage growth, controlled individual expression, and independent learning. The student also is expected to continue experimenting by continuing to build a vocabulary of materials and methods. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials. 1 Course Credit

ART 430 Sculpture IV

Prerequisite: ART 330 or permission of instructor

Offered: Typically every Fall Term

This course requires students to concentrate on producing a conceptually directed independent body of work aimed at the senior exhibition. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials. 1 Course Credit

ART 186/286/386/486 Special Topics

Prerequisites: Determined by course instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

ART 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description

1 Course Credit

ART 491 Independent Studio

Prerequisite: Permission of the Program

Offered: Typically as student interest and faculty/staff availability allow

Intensive work in an area not currently in the curriculum. A proposal for Independent Studio must be approved by the Program during the term prior to when the course is to be taken. 1 Course Credit

ART 493 Senior Seminar

Prerequisite: Senior standing

Offered: Typically Fall and Spring terms

A series of lectures, films, discussions, visiting artist programs, review, and other designated meetings. An exhibition of work or an oral presentation of a selected research topic during the senior year (ART 493) is required. **NOTE:** Required for majors concentrating in Art: Studio, Art: General, and Art Education with senior standing; taken in the last regular term of residence. Noncredit Course

ART 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

ART 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

ART 398/498 Directed Study

Prerequisite: Permission of instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Asian Studies

AST 101 Introduction to Japanese I (JPN)

Prerequisite: Permission of instructor

Offered: Typically every Fall Term

Introduction to Japanese as it is spoken in Japan today. Speaking and listening comprehension will be emphasized.

1 Course Credit

AST 102 Introduction to Japanese II (JPN)

Prerequisite: ASTIJPN 101 with a grade of C or higher, or permission of instructor

Offered: Typically every Spring Term

Continued emphasis on Japanese oral/aural communication skills and an introduction to the Japanese written language.

1 Course Credit

AST 103 Introduction to Japanese III (JPN)

Prerequisite: ASTIJPN 102 with a grade of C or higher, or permission of instructor

Offered: Typically every Fall Term

Continued development of Japanese speaking, listening, reading, and writing skills.

1 Course Credit

AST 104 Introduction to Japanese IV (JPN)

Prerequisite: ASTIJPN 103 with a grade of C or higher, or permission of instructor

Offered: Typically every Spring term

Completion of the two-term intermediate level of Japanese language instruction; continued practice of reading, writing, listening, and speaking, fully integrated with culture.

1 Course Credit

AST 122 History of China (HIS)

Offered: Typically every Fall Term
China has one of the foundational civilizations in human history. It gave rise to social structures, political systems, and philosophies that deeply influenced the development of East Asia. Through close reading of documents, focused analytical writing, open discussion, and lecture, students will develop their own understanding of the evolution of China from its Neolithic origins to its present status as a world power. World Culture (Non-Western) component of the International Perspective.

1 Course Credit

AST 123 History of Japan (HIS)

Offered: Typically every Spring Term

Japan has developed from an isolated chain of islands at the edge of East Asia into a modern economic giant. Through close reading of documents, focused analytical writing, open discussion, and lecture, we will examine the complexity of the culture that gave rise to Zen Buddhism, the samurai, and Japan's current position as one of the world's most powerful economies. World Culture (Non-Western) component of the International Perspective.

1 Course Credit

AST 132 Religions of China

Offered: Typically alternate years (offered Fall 2012)

A study of the principle religious traditions of China: Buddhism, Confucianism, and Daoism. The course includes readings in the classical primary texts of each tradition as well as attention to ritual and practice. Religion Perspective and World Culture (Non- Western) component of the International Perspective.

1 Course Credit

AST 135 Religions of Japan

Offered: Typically alternate years (next offered Fall 2013)

A study of the principle religious traditions of Japan: Buddhism, Confucianism, and Shinto. The course includes readings in the classical primary texts of each tradition as well as attention to ritual and practice. Religion Perspective and World Culture (Non-Western) component of the International Perspective.

1 Course Credit

AST 204 Yoga (PED)

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate years

A study of the asanas (poses) that are included in the practice of Hatha Yoga. The focus will be on connecting breath with movement, developing ease and comfort in poses and developing skills in using yoga as a tool for increased self-awareness. The content will include basic history of yoga, anatomy and physiology, meditation and asanas. Students will be required to purchase a yoga mat that they will keep throughout the term.

1/4 Course Credit

AST 205 Tai Chi (PED)

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate years

Because of its movement and mind/body focus, the benefits of Tai Chi on dynamic balance, relaxation, and sustained mental attention have been recognized by those who engage in all kinds of activities. Students of Tai Chi will learn the Yang (short form) style of Tai Chi as well as the mind-body connection in accordance with the principles and techniques of Tai Chi to help enrich one's life. Tai Chi is scientifically designed to help all students maintain a healthy body through stretching, breathing and meditation.

1/4 Course Credit

AST-208 Aikido (PED)

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate years

Aikido is a Japanese martial art emphasizing harmonious resolution to conflict. It is classified as a "soft" martial art, with the goal being personal transformation rather than harm to the opponent. Aikido movements are circular, fluid, and often dancelike. Students in this course will learn the philosophy of the art as well as basic techniques of attacking, falling, and responding to attacks.

1/4 Course Credit

AST 220 Topics in Indian Art History (ARH)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered fall 2013)

Designed to examine a key period or significant topic in Indian art and architecture, the course explores key tenets of this religiously and culturally diverse society through artistic expression. May be repeated for credit, provided the topic differs from that studied previously. Arts Perspective and International (non-Western) Perspective.

1 Course Credit

AST 229 Modern Imperialism (HIS)

Prerequisite: HIS 102, ASTIHIS 122, ASTIHIS 123, OR GSTR 210

Offered: Typically alternate years (offered Fall 2012)

This course is a selective exploration of imperialism using a comparative historical perspective. Beginning with a reflection on the meanings of "empire," the course explores the rise of European empires during the "high colonialism" of the 19th and 20th centuries. This course then will explore the expansion of European colonialism and regional responses-including local resistance, national revolutions, and the development of the Soviet and Japanese empires. After examining the dynamics of imperial decline between 1919 and 1945, the course will conclude by considering the status of empires in the post-World War II period. World Culture (Western) component of the International Perspective.

1 Course Credit

AST 260 Buddhism (REL)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2014)

A study of the history and diversity of Buddhist traditions, from the time of the Buddha in .5th-century BCE India to contemporary Buddhist communities in Asia and the West. Special attention will be given to the problems and prospects of Buddhism in relation to contemporary issues, such as gender and sexuality, ecological change, and the relationship between religion and politics. Religion Perspective and World Culture (Non-Western) component of the International Perspective.

1 Course Credit

AST 308 Themes in Asian Traditions (REL)

Prerequisite: One AST course

Offered: Typically alternate years (next offered Spring 2013)

A close study of selected texts, practices, or experiences of one or more Asian religious traditions. May be repeated for credit, provided the topic varies from that studied previously. Religion Perspective and World Culture (Non-Western) component of the International Perspective.

1 Course Credit

AST 322 Seminar in Chinese History (HIS)

Prerequisite: AST/HIS 122 or 123; OR junior standing

Offered: Typically alt. Spring Terms (offered Spring 2013)

The goal of this course is two-fold. Through examining a key period in Chinese history, students both will develop a deeper appreciation for Chinese culture and a better understanding for the various methodologies that historians employ in analyzing complex societies. By reading key primary documents and secondary material from important historians, students will develop a picture of the way social, economic, political, and cultural issues interact and shape the period. May be repeated for credit, provided the topic differs from those studied previously. World Culture (Non-Western) component of the International Perspective.

1 Course Credit

AST 323 Seminar in Japanese History (HIS).

Prerequisite: AST/HIS 122 or 123; OR junior standing

Offered: Typically alternate Spring Terms (next expected to be offered Spring 2014)

The goal of this course is two-fold. Through examining a key period in Japanese history students will develop both a deeper appreciation for Japanese culture and a better understanding for the various methodologies that historians employ in analyzing complex societies. By reading key primary documents and secondary material from important historians, students will develop a picture of the way social, economic, political, and cultural issues interact and shape the period. May be repeated for credit, provided the topic differs from those studied previously. World Culture (Non- Western) component of the International Perspective.

1 Course Credit

AST 401 Senior Seminar in Asian Studies

Prerequisite: Senior standing or permission of instructor

Offered: Typically every Fall Term

Through common readings and independent work, students will explore various views of Asia, past and present, from within Asia and from without. Through the common readings, students will deal with central questions regarding geographic visions of Asia, the reality or unreality of "Asia," key issues for the region, etc. Through regular presentations of ongoing individual projects, students will learn from

each other about diverse Asia-related issues. For example, one day, students might all read an address written by the President of the American Association of Asian Studies, followed by individual presentations on aspects of Shinto religion, followed by the politics of the partition of India, followed by current concerns with North Korea. The course is intentionally open-ended and free-flowing, both to encompass specific student interests and to develop the ability to think broadly about Asia.

1 Course Credit

AST 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

AST 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

AST 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

AST 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

AST 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Biology

BIO 100 Introduction to Biology

Prerequisite: Completion or waiver of MAT 010, or permission of instructor

Offered: Frequency yet to be determined (next offered as faculty availability allows)

Introduction to the practice of science, the study of biology, and the fundamental principles of living organisms. A first-year-level course specifically designed for non-Biology majors. Three class periods and one two-hour laboratory period each week. NOTE: Credit will not be given toward the Biology major. Natural Science Laboratory Course.

1 Course Credit

BIO 101 Human Anatomy and Physiology I

Prerequisite: Completion or waiver of MAT 010, or permission of instructor

Offered: Typically every Fall term

A study of the gross and microscopic anatomy of the human body and how it relates to body function. Emphasis is on basic chemistry, cells, tissues, and skeletal, muscular, nervous, and cardiovascular organ systems. This course deals with physiology as an integrating process within the body. Three class periods and one three-hour laboratory period each week. Natural Science Laboratory Course.

1 Course Credit

BIO 102 Human Anatomy and Physiology II

Prerequisite: BIO 101 or permission of instructor

Offered: Typically every Spring Term

A continuing study of the organ 'systems of the human body. Emphasis is on the special senses, integumentary, endocrine, respiratory, digestive, urinary, and reproductive systems. A cursory study of human development and genetics also is provided. Three class periods and one three-hour laboratory each week. 1 Course Credit

BIO 110 Modern Biology

Prerequisite: Completion or waiver of MAT 012, or permission of instructor; a freshman-level majors course

Offered: Typically Fall and Spring terms

A foundation course in biology that serves as an introduction to the major. This introduction includes the presentation of the following concepts: general chemical principles, cell structure and function, metabolism, energy pathways, cell division, classical and molecular genetics, and evolution. Historical development and contemporary considerations of these topics will be emphasized. Laboratory exercises will be experimental and descriptive. Three class periods and one three-hour laboratory each week.

NOTE: This first-year course is the prerequisite to all Biology courses with the exception of BIO 100, 101, 102, and 207. Natural Science Laboratory Course . 1 Course Credit

BIO 113 Experimental Zoology

Prerequisite: BIO 110 with a grade of C- or higher, or permission of instructor; a freshman-level course.

Offered: Typically Fall and Spring terms

This core course is designed to allow prospective majors to engage themselves actively in the practice of biology. Its primary objective will be to introduce prospective majors (second term of first year or first term of sophomore year) to methods of experimental design, analysis, scientific writing, and poster or oral presentations of results. Students will be exposed to experimental systems representing various areas of Zoology (e.g., physiology, ecology, development, parasitology, evolution, etc.). Lectures will be limited to providing adequate background information for each research system and analytical tools (i.e., statistics, graphing programs, primary literature) for analyzing data. Two class projects and one group investigative project will be required. Three class periods and one three-hour lab each week.

1 Course Credit

BIO 114 Botany

Prerequisites: BIO 110 with a grade of c- or higher; OR permission of instructor; a freshman-level course

Offered: Typically Fall and Spring terms

The diversity of the major divisions of the Monera, Protista, Fungi, and Plant Kingdoms is studied with emphasis on classification, evolution, morphology, physiology, genetics, and life cycles of organisms. A written report on a botanical topic is required of all students. Three class periods and one three-hour laboratory period each week.

1 Course Credit

BIO 207 Pathophysiology: Concepts of Altered Health States

Prerequisites: EITHER 1) BIO 102, plus CHM 113 or CHM 131 OR 2) BIO 220, BIO 323, and CHM 221

Offered: Typically every Fall Term

This course will explore human pathophysiology using a conceptual model that integrates alterations in health across the lifespan as the human body continually monitors and adjusts to the stress of everyday life. The course will be organized around common health problems with three areas of focus: 1) control of normal function, 2) altered function, and 3) the implications of human response. Integration of the physiologic mechanisms of drug therapy and other treatment modalities will be included. The class will consist of three hours of lecture and a two-hour laboratory each week. NOTES: This course is primarily for nursing students. This course may not be used to satisfy any concentration area requirement in the Biology major

1 Course Credit

BIO 220 Comparative Vertebrate Anatomy

Prerequisites: BIO 110 and BIO 113 or permission of instructor; a sophomore-level course

Offered: Typically every Fall Term

Structure-function relationships are used to study the internal and external morphology of various classes of vertebrates. Variations in structure will be discussed in the context of evolution of form and function.

Dissections of representative vertebrates are used to illustrate the major evolutionary changes in vertebrate systems. Three 2-hour class/laboratory periods each week. 1 Course Credit

BIO 222 Microbiology

Prerequisites: BIO 102 & CHM 113 OR BIO 110 & CHM 221 or permission of instructor; a sophomore-level course

Offered: Typically both Fall and Spring terms

A study of microorganisms and their various activities with special emphasis on bacteria and viruses. Topics include microbial cell structure and function, microbial diversity, microbial growth and metabolism, and microbial genetics. The role of microorganisms in infectious disease, as well as specific and non-specific host defense, also will be one of the major focuses of the course. Applied and environmental microbiology also will be discussed. Students will gain experience culturing and manipulating a wide variety of microorganisms in the lab. Students also will design, conduct, and present the results of an independent laboratory research project. Three class periods and one three-hour laboratory period each week. 1 Course Credit

BIO 323 Human Physiology

Prerequisites: BIO 110 & 113 AND CHM 221; OR permission of instructor; a sophomore-, junior-, or senior-level course

Offered: Typically every Spring Term

Structure and function of the human body is examined at the system and cellular level. The course is organized around the major organ systems: nervous and endocrine systems, respiratory and cardiovascular systems, renal and digestive systems, the immune system, and reproductive systems. Each system will be studied in isolation, and as part of the interaction among all systems in the maintenance of homeostasis. Clinical disorders will be used as examples in understanding normal physiological function, but the course does not have a medical physiology focus. Three class periods and one three-hour laboratory period each week. NOTE: Not open to students with credit in Bio 101 or 102. 1 Course Credit

BIO 324 Parasitology

Prerequisite: BIO 113 or permission of instructor; a sophomore-, junior-, or senior-level course

Offered: Typically Fall Term

The intent of this course is to expose students to the general morphological features and life cycles of selected human helminths and arthropods with directly or indirectly affect human health. Parasite pathology, diagnosis, and control will accompany this coverage. The course also will consider a number of local examples of non-human parasites in the interest of diversity and safety, and expose students to field collection strategies. Students will be required to master several techniques that will involve the recovery and proper preservation of parasites from naturally infected hosts and the completion of a permanent slide project. A second objective is to expose students to experimental designs for conducting experiments with parasites, which will include an exposure to primary literature and the completion of a research poster related to an individual or group project. 1 Course Credit

BIO 325 Neurobiology

Prerequisite: BIO 113 and CHM 222, OR permission of instructor; a sophomore- or junior-level course

Offered: Typically alternate Spring Terms (next offered Spring 2014)

A study of neurobiology, including attention to neuroanatomy, neurophysiology, motor and sensory systems, neuronal development, and the history of neuroscience. Students will use primary literature and investigative laboratory exercises to extend their understanding of the field. Three class periods and one three-hour laboratory period per week. 1 Course Credit

BIO 326 Invertebrate Zoology

Prerequisite: BIO 113 or permission of instructor; a sophomore-, junior-, or senior-level course

Offered: Typically as student interest and faculty availability allow

This traditional course emphasizes the comparative morphology, physiology, life cycles, and evolutionary relationships of the major invertebrate phyla. Laboratories will include observation of living and

preserved material, prepared slides, dissections, and numerous field collection trips. Techniques for preparing and cataloging specimens will result in the completion of an invertebrate collection. Three class periods and one three-hour lab each week. 1 Course Credit

BIO 327 Herpetology

Prerequisite: BIO 113 OR permission of instructor; a sophomore- or junior-level course

Offered: Typically alternate Spring Terms (next offered Spring 2013)

This course is an introduction to the characteristics, evolutionary history, systematics, global diversity, life history traits, and conservation of amphibians and reptiles. Emphasis will be placed on developing a working knowledge of the amphibians and reptiles of Kentucky, including collection techniques and field identification. The course includes collecting trips within Madison and the surrounding counties.

Identification of live and preserved specimens using a dichotomous key will be used to emphasize characteristics that are useful for field identification and classification of amphibians and reptiles from throughout the United States. Three two-hour class/laboratory periods each week.

1 Course Credit

BIO 330 Genetics

Prerequisites: BIO 113 & 114 AND CHM 222; or permission of instructor; a junior- or senior-level course

Offered: Typically every Spring Term

A study of the principles of heredity and their application in living organisms. Classical transmission genetics is introduced at the phenotypic level and developed at the molecular genetics level. Topics include transmission genetics; chromosome theory, structure, and transmission; genetic linkage, recombination, and mapping; human karyotypes and chromosome behavior; extranuclear inheritance; DNA mutation and repair, gene structure, expression, and regulation; population genetics and evolution; genetic engineering and genomics; and genetic bioethics. The laboratory component of this course is research-rich, and students will conduct several research-based projects. Students also will be expected to prepare and orally present a primary research article as part of the course "Journal Club." Three class periods and one three-hour laboratory period each week. 1 Course Credit

BIO 331 Developmental Biology

Prerequisites: BIO 113 and CHM 221, OR permission of instructor; a sophomore- or junior-level course

Offered: Typically alternate Spring Terms (next offered Spring 2013)

The origin and development of individual animals is described from the formation of the egg and sperm through fertilization and the development of a mature organism. The emphasis is on vertebrates, but invertebrates and plants are included as well. Lectures focus on the molecular and morphological characteristics of development, and on classical and modern experiments in the field. Students will gain experience with the primary literature of developmental biology. Laboratory exercises include work with sea urchins, chicks, frogs, fruit flies, and plants. Three class periods and one three-hour laboratory period each week. 1 Course Credit

BIO 332 Mammalogy

Prerequisite: BIO 113 or permission of instructor

Offered: Typically as faculty availability allows

An introduction to the study of mammal biology. Emphasis will be upon classification, morphology, ecology, geographical distribution, natural life history, and field methods with a field focus on Kentucky mammals. Three class periods and one three-hour laboratory period each week. 1 Course Credit

BIO 342 Field Botany

Prerequisites: BIO 114; OR permission of instructor; a junior- or senior-level course

Offered: Typically Spring Term (next offered term to be determined)

Identification, classification, ecological, and economic uses of the local and regional native and naturalized flora. The focus will be spring Magnoliophytes and selected Pteridophytes and Pinophytes in

eastern Kentucky. Nine hours of class, laboratory, and field work each week. **NOTE:** BIO386: Plant Ecology, which covers similar topic areas, is currently being offered as an alternative. Next offered Spring Term 2013. 1 Course Credit

BIO 344 Dendrology and Forest Ecology

Prerequisite: BIO 114 or permission of instructor; a junior- or senior-level course

Offered: Typically Fall Term (next offered term yet to be determined)

Identification, classification, ecological, and economic uses of the native and naturalized woody plants and autumn flora of eastern Kentucky with special reference on the vegetation of the Eastern Deciduous Forest Region. Nine hours of class, laboratory, and field work each week. 1 Course Credit

BIO 441 Cellular and Molecular Biology

Prerequisites: BIO 113,114, and CHM 222), OR permission of instructor; a junior/senior-level course

Offered: Typically alternate Fall Terms (next offered Fall Term 2012)

An integrated study of cell structure and function at the molecular and macromolecular levels. Emphasis is on both traditional and contemporary areas of cell biology. Topics typically discussed include plasma membrane structure and function; ion and macromolecular transport; cellular bioenergetics and metabolism; organelle structure and function; structure and function of cytoplasmic membrane systems; membrane trafficking; the cytoskeleton and cell motility; cell-to-cell interaction, communication, and signaling; the cell cycle and cell death; and special topics such as oncogenesis and stem cells. The laboratory component of this course is research intensive, and students will participate in an on-going class-based research project as part of this course. Students also will gain experience using a wide range of cell and molecular laboratory techniques. Students will prepare and present two primary research articles as part of the course "Journal Club" and will prepare a pre-doctoral fellowship proposal based on one of their chosen articles. Three class periods and one three-hour laboratory period each week.

1 Course Credit

BIO 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: See note below

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

NOTE: Eight hours of laboratory, library, field, and discussion time to be arranged each week during Fall or Spring Term 1/2 or 1 Course Credit

BIO 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

NOTE: Designed for the qualified student to pursue Faculty-directed primary research, or conduct a special study of a biological topic using primary literature sources, and development of special techniques in a biological specialization. A satisfactory paper and oral presentation are required. 1 Course Credit

BIO 494 Evolution

Prerequisite: Senior standing or permission of instructor

Offered: Typically every Spring Term

Capstone course required for all senior-level Biology majors. A study of the processes, concepts, and philosophical implications of the modern theory of biological evolution. Topics range from chemical evolution and the origin of life to macroevolutionary trends in adaptive radiation and extinction.

Examples from various taxa are employed to examine concepts such as species and speciation, evolutionary rates, and the role of chance events in the evolutionary process. Evolutionary theory is examined in relation to its ability to explain biological complexity and structural anomalies in various taxa including humans. Three two-hour class periods each week. 1 Course Credit

BIO 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

BIO 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

BIO 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Chemistry

CHM 101 Foundations of Chemistry

Prerequisite: Completion or waiver of MAT 010 or concurrent enrollment in MAT 011

Offered: Typically every Fall Term

An introduction to the foundations of chemistry designed for students who are interested in the physical sciences and have had limited math and/or high-school chemistry background. Topics covered will include scientific method, significant figures, units and unit cancellation, stoichiometry, simple atomic theory and structure, simple chemical nomenclature, and mole calculations. This course may be waived by examination. It meets three hours per week of content lectures with an additional tutorial hour in place of laboratory. NOTES: Concurrent enrollment in MAT 012 or higher is suggested (particularly if students plan to continue on to CHM 131, which also has MAT 012 as a prerequisite). Noncredit for students who already have earned credits in regularly offered Berea College CHM courses.

1 Course Credit

CHM 113 Allied Health Chemistry

Prerequisite: Completion or waiver of MAT 012; completion or concurrent enrollment in BIO 101 or permission of instructor

Offered: Typically every Spring Term

A study of chemistry related to the allied health fields. This course covers significant biochemistry content emphasizing the nature and activity of physiological substances and metabolic pathways while starting at the fundamentals of general chemistry. Also included will be an introduction to organic functional groups and reactions. This course meets for three hours each week with an additional two-hour laboratory session each week. Natural Science Laboratory Course. NOTE: This course is not intended for agriculture and natural resources, applied mathematics, biology, or chemistry majors. Those majors should follow the CHM 101/131/134 sequence.

1 Course Credit

CHM 131 Accelerated General Chemistry

Prerequisite: Permission of instructor or completion or waiver of both MAT 012 and CHM 101

Offered: Typically Fall and Spring terms

An accelerated study of general chemistry designed for students who have taken or waived CHM 101. Students are assumed to be familiar with topics from CHM 101, which will be reviewed in the first two weeks of the course. The majority of the course will deal with topics that come at the middle and end of a general-chemistry course sequence, including molecular orbitals, acid-base chemistry, chemical equilibria, buffers, thermochemistry, kinetics, gas laws, and solid/liquid interactions. The goal of this course is to cover sufficient material so that students are prepared to enter fully a standard organic-chemistry sequence without needing additional general-chemistry course work. This course meets three hours each week with an additional three-hour laboratory session each week. Natural Science Laboratory Course. NOTES: Concurrent enrollment in MAT 115 or higher is suggested.

1 Course Credit

CHM 134 Accelerated Environmental Chemistry

Prerequisite: Permission of instructor or completion or waiver of both MAT 012 and CHM 101

Offered: Typically every Spring Term

This course is equivalent in content to CHM 131, with an emphasis on environmental issues and applications. These topics include molecular orbitals, acid-base chemistry, chemical equilibria, buffers, thermochemistry, kinetics, gas laws, and nuclear chemistry. The goal of this course is to cover sufficient material so that students are prepared to enter fully a standard organic chemistry sequence without needing additional general-chemistry course work. This course meets for three hours each week with an additional three-hour laboratory session each week. Natural Science Laboratory Course. NOTES: Concurrent enrollment in MAT 115 or higher is suggested. Noncredit for students who completed CHM 131.

1 Course Credit

CHM 221 Organic Chemistry I

Prerequisite: CHM 131 or 134

Offered: Typically Fall and Spring terms

A study of the chemistry of carbon compounds: organic acids and bases, alkanes and cycloalkanes, stereochemistry, nucleophilic substitution and elimination, alkenes, and alkynes. Emphasis will be placed on nomenclature, physical and chemical properties, reactivity, and reaction mechanisms. This course meets for three hours of lecture per week with an additional three-hour laboratory session each week.

1 Course Credit

CHM 222 Organic Chemistry II

Prerequisite: CHM 221

Offered: Typically Fall and Spring terms

A continuation of the Organic Chemistry two-course sequence. Topics include: the chemistry of aromatic compounds; spectroscopy (NMR, UV/Visible, IR., Mass Spectrometry); alcohols, diols, ethers, aldehydes, and ketones; carboxylic acids and their derivatives; enols and enolates; condensation reactions; and amines. This course meets for three hours of lecture per week with an additional three-hour laboratory session each week.

1 Course Credit

CHM 311 Analytical Chemistry

Prerequisite: CHM 131 or 134, and completion or waiver of MAT 135 or concurrent enrollment

Offered: Typically every Fall Term

A study of analytical chemistry theory and methods designed for students who are either Chemistry majors or who desire a 4th term of chemistry as an option in lieu of CHM 345. The material is an extension of the content in CHM 131 and 134 with an emphasis on analytical methods. In particular, topics will include complex equilibria, complex acid-base chemistry, activities, error analysis, calibrations, standardizations, obtaining and preparing samples for analysis, gravimetric methods, titrations, electrochemistry, and chemical instrumentation. This course meets three hours with an additional three-hour laboratory session each week. NOTE: Noncredit for students who have completed CHM 341.

1 Course Credit

CHM 345 Biochemistry

Prerequisite: CHM 222

Offered: Typically every Fall Term

A one-term intensive study of modern biochemistry. The class is comprised of three major sections. In the biomolecules section, students will study amino acids, nucleic acids, carbohydrates, and lipids. In the proteins section, students will study protein structure, function, and enzyme kinetics. Finally, in the

metabolism section, students will study glycolysis, the citric-acid cycle, and electron transport/oxidative phosphorylation. This class draws on all four previous classes of chemistry (CHM 131/134,221, and 222). There will be three hours of lecture each week. 1 Course Credit

CHM 361 Thermochemistry

Prerequisite: CHM 311 (formerly 341); MAT225; PHY 218 (or concurrent enrollment) or PHY 315; OR permission of instructor

Offered: Typically every Spring Term

An advanced study of classical thermodynamics and chemical kinetics. Topics include a detailed study of energy, entropy and enthalpy, multi-component phase diagrams, real gases, electrochemical systems, reaction kinetics, and transport processes. The fundamental goal is to achieve a physical description of general chemical phenomena with a strong emphasis on mathematical models. There will be three hours of lecture each week. 1 Course Credit

CHM 362 Quantum Chemistry

Prerequisite: CHM 311 (formerly 341), MAT225, PHY 218 or PHY 315, OR permission of instructor

Offered: Typically every Fall Term

An advanced study of quantum mechanics and statistical mechanics. Topics include in-depth treatment of various fundamental problems in quantum mechanics (particle in a box, rigid rotor, harmonic oscillator), applications of these problems to chemical systems, atomic and molecular orbital theory and structure, spectroscopy, lasers, and statistical mechanics. The fundamental goal is to achieve a physical description of the quantum nature of matter and how this manifests itself in chemical problems. This course relies heavily on mathematical approximations to difficult differential equations and interpretation of these answers in terms of probabilities. There will be three hours of lecture each week. 1 Course Credit

CHM 370 Advanced Laboratory I

Prerequisite: CHM 311 (formerly 341); OR permission of instructor

Offered: Typically every Fall Term

One of four courses that form the core of the Advanced Laboratory Experience for all Chemistry majors. In each course, students will do the equivalent of five (5) laboratory experiments each term. Four of these experiments will be chosen from a list prepared by the Chemistry Program. The remaining experiment will be one that the student finds in the current chemical literature and attempts to reproduce. Students will need to pay attention to their portfolio requirements in the selection of appropriate experiments. Students often will work in teams under the guidance of senior students. The last week of each term will conclude with a mini research meeting. In each of the four Advanced Laboratory terms, all students will be required to attend at least three research seminars by visiting speakers each term. All students will read an "important paper" in chemistry each term and discuss these with the instructor. 1/2 Course Credit

CHM 371 Advanced Laboratory II

Prerequisite: CHM 370 and one additional CHM course at the 345-or-higher level (which may be taken concurrently); OR permission of instructor

Offered: Typically every Spring Term

One of four courses that form the core of the Advanced Laboratory Experience for all Chemistry majors. In each course, students will do the equivalent of five (5) laboratory experiments each term. Four of these experiments will be chosen from a list prepared by the Chemistry Program. The remaining experiment will be one that the student finds in the current chemical literature and attempts to reproduce. Students will need to pay attention to their portfolio requirements in the selection of appropriate experiments. Students often will work in teams under the guidance of senior students. The last week of each term will conclude with a mini research meeting. In each of the four Advanced Laboratory terms, all students will be required to attend at least three research seminars by visiting speakers each term. All students will read an "important paper" in chemistry each term and discuss these with the instructor. 1/2 Course Credit

CHM 451 Advanced Inorganic Chemistry

Prerequisite: CHM 311 (formerly 341)

Offered: Typically alternate Spring Terms (next offered Spring 2013)

A study of modern concepts in inorganic chemistry, including atomic and molecular orbital theory, ligand field theory, and molecular symmetry. 1 Course Credit

CHM 452 Advanced Organic Chemistry

Prerequisite: CHM 222

Offered: Typically alternate Spring Terms (next offered Spring 2014)

Topics include an introduction to molecular orbital theory, pericyclic reactions, the Woodward-Hoffmann Rules, multi-step synthesis, drug synthesis, the chemistry of heterocyclic compounds, and macromolecular chemistry. There will be three hours of lecture each week. 1 Course Credit

CHM 470 Advanced Laboratory III

Prerequisite: CHM 370 (or concurrent enrollment) and one additional CHM course at the 345-or-higher level; OR permission of instructor

Offered: Typically every Fall Term

One of four courses that form the core of the Advanced Laboratory Experience for all Chemistry majors. In each course, students will do the equivalent of five (5) laboratory experiments each term. Four of these experiments will be chosen from a list prepared by the Chemistry Program. The remaining experiment will be one that the student finds in the current chemical literature and attempts to reproduce. Students will need to pay attention to their portfolio requirements in the selection of appropriate experiments. Students often will work in teams under the guidance of senior students. The last week of each term will conclude with a mini research meeting. In each of the four Advanced Laboratory terms, all students will be required to attend at least three research seminars by visiting speakers each term. All students will read an "important paper" in chemistry each term and discuss these with the instructor. In this course, students will be expected to take an active leadership role in the group projects that are shared jointly between this course and CHM 370. 1/2 Course Credit

CHM 471 Advanced Laboratory IV

Prerequisite: CHM 371 (or concurrent enrollment) and two additional CHM courses at the 345-and-higher-level or permission of instructor

Offered: Typically every Spring Term

One of four courses that form the core of the Advanced Laboratory Experience for all Chemistry majors. In each course, students will do the equivalent of five (5) laboratory experiments each term. Four of these experiments will be chosen from a list prepared by the Chemistry Program. The remaining experiment will be one that the student finds in the current chemical literature and attempts to reproduce. Students will need to pay attention to their portfolio requirements in the selection of appropriate experiments. Students often will work in teams under the guidance of senior students. The last week of each term will conclude with a mini research meeting. In each of the four Advanced Laboratory terms, all students will be required to attend at least three research seminars by visiting speakers each term. All students will read an "important paper" in chemistry each term and discuss these with the instructor. In addition, students will take a written comprehensive chemistry examination as part of this course. Students will be graded pass/fail on this examination and may retake the exam multiple times throughout the term, if needed. Failure to pass this examination will result in an incomplete grade for CHM 471, which will become a grade of F on the student's transcript at the end of the next regular term. 1/2 Course Credit

CHM 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically Fall and Spring terms, at Program discretion

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

NOTE: This course will allow each instructor to offer an advanced course exploring a topic such as

spectroscopy (focusing on NMR primarily), electrochemistry (fuel cells and battery technology), biochemistry (including topics such as metabolism, nucleic acids or protein chemistry), or other specialized topics. 1/2 or 1 Course Credit

CHM 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

CHM 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

CHM 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

CHM 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

NOTE: In this course, students conduct research under the supervision of a Chemistry instructor. Each Chemistry major must complete this course or an equivalent approved Summer One or Summer Two Term experience. This course may be repeated as often as the student and faculty mentor see fit. Students are required to present two presentations relating to their project. One presentation must be on campus and the other off campus. 1 Course Credit

Child and Family Studies

CFS 103 Food Studies I

Prerequisite: Completion or waiver of MAT 012

Offered: Typically every Fall Term (offered Fall 2012)

The course examines our food system using the concept from the farm to the table. Emphasis is placed on broad agricultural practices; trade agreements; and environmental, economic, political, and social sustainability of various systems of food production, including local food production. Introductory principles of the life sciences in relation to foodstuffs, food chemistry, food safety, commercial food preservation, consumer marketing practices, and government standards and regulations are integrated throughout the course. Laboratory activities and field trips will be included. Course Fee: \$10.

1 Course Credit

CFS 110 Apparel and Costume Design and Construction (THR)

Offered: Typically as student interest and faculty availability allow

This course offers an introduction to the design and construction of basic garments and costumes. An exploration of the history of fashion and costume history, including the social, economic, cultural, and psychological factors influencing the selection and use of apparel and costumes. The course includes instruction in fibers and textiles; pattern drafting, design, fitting, and construction techniques; alterations of commercial patterns; and care, repair, storage, and recycling of clothing and costumes. Will also examine consumer buying and technological innovations used in the fashion industry. Course Fee: \$15.

1 Course Credit

CFS 115 Food Studies II

Prerequisite: Completion or waiver of MAT 012; CFS 103; OR permission of instructor

Offered: Typically alt. Spring Terms (next offered Spring 2013)

The course emphasizes the application of scientific principles involved with the selection, preparation, and the evaluation of quality standards, palatability, and aesthetics of specific categories of foods. It examines the nutrient composition of foods and the physical and chemical properties of foods. Lab experiments and field trips apply principles of food chemistry and food microbiology for residential food preservation, along with examining the interrelationship of ingredients and their effects on physical, chemical, and sensory characteristics of food products. Course Fee: \$15. 1 Course Credit

CFS 130 Lifespan Human Development

Offered: Typically Fall and Spring terms

A survey of growth and development from conception through old age and death. Theories of development, contexts of development, research methodologies, and historical and contemporary issues are examined to help describe the physical, social, emotional, cognitive-perceptual, and moral-conscious aspects of growth and development. Individual differences, family, social, and cultural diversity, along with non-normative development for each phase of development, are examined. Directed observation is required. Course Fee: \$20. 1 Course Credit

CFS 145 Consumer Decision Making

Offered: Typically Fall and Spring terms

Principles of decision making applied to the use of household resources and individual choices relative to the purchase, consumption, and production of goods and services, in personal and professional arenas. Consumer concerns such as health care, credit, housing, food, clothing, savings, insurance, and protective legislation are covered. Emphasis on the development of human capital and related career skills, and an introduction to use of data sources. Practical Reasoning (PR). 1 Course Credit

CFS 207 Family Relations (WGS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically Fall and Spring terms

An introductory survey of the psycho-social aspects of family science, including an examination of functions and variations over the life cycle, diverse family forms, gender roles and power, family resources, healthy intimate relations and personal communication, and issues of parenthood. This course balances theory and personal application. African Americans', Appalachians', and Women's Perspective and Social Science Perspective. 1 Course Credit

CFS 210 Foundations of Early Childhood Education and Care (EDS)

Prerequisite: CFS 130 or permission of instructor

Offered: Typically alt. spring terms

This course is designed to help students develop a philosophy of teaching and learning for children birth through kindergarten. Current thought and practice will be examined in light of the early childhood profession and its historical, philosophical, and social foundations. Public policy, legal implications, and a code of ethics will be studied. Theoretical perspectives including psychoanalytic theories, social-learning theories, behaviorism, cognitive and developmental theories, the humanistic models, and the normative-descriptive systems will be used to establish a framework for analysis and assessment. Historical and contemporary models of early childhood education, such as Head Start, High Scope, Montessori, British Infant Schools, Reggio Emilia, enrichment programs, and comprehensive, compensatory, and intervention models will be examined in view of their effects on children, families, and communities. 10 field hours.

1 Course Credit

CFS 217 Parent/Child Relations

Prerequisite: Sophomore standing or above

Offered: Typically every Spring Term

An intensive study of the nature of parent-child relations, parental roles, theories of parenting, and developmental interaction throughout the lifespan. Focuses on cultural, social, and family diversity;

family resources; family services; adult and child learning principles; and historical and contemporary parenting in the United States. Students will be introduced to a variety of parenting-education programs and learn strategies for working with parents. This course is for both those who want to improve their own parenting skills and those who will work with parents in a professional capacity. 1 Course Credit

CFS 221 Fundamentals of Nutrition

Prerequisites: GSTR 210

Offered: Typically Fall and Spring terms

This course integrates the principles of nutrition and the promotion of personal health and well-being through dietary disease prevention. It emphasizes the functions of basic nutrients within the human body and in outstanding dietary sources, as well as factors that have an impact on food sources and selection of an adequate diet. Class discussions and activities survey current consumer issues, nutritional concepts and controversies, myths, and factors that influence dietary practices and behavior. 1 Course Credit

CFS 225 Food, Culture, and Society

Prerequisites: GSTR 210 or permission of instructor

Offered: Typically every Fall Term

A study of the cross-cultural role of food as an integral component of early civilization through more modern societies, including both western and non-western cultures. A survey of the contribution of anthropology and history to our knowledge about food within a cultural context. Through selected readings, class discussions, the use of artifacts, interviews, field trips, personal reflections, and hands-on activities, we will survey the historical evolution of food from early civilization through the Middle Ages, the Renaissance, the Industrial Revolution, and into the 21st century. This examination will explore the use of and symbolic representation of food within selected religious traditions, diverse ethnic groups, health practices, and other social norms and cultural contexts. World Culture (Western) component of the International Perspective. Course Fee: \$15. 1 Course Credit

CFS 237 Human Environments I (Residential Housing)

Prerequisite: Sophomore standing or above

Offered: Typically every Fall Term (next offered Fall 2013)

This course explores the relationship of housing to family, societal, economic, political, and environmental concerns. How shelter choices for individuals and families are made and supported financially; sustainability in housing design and construction; architectural styles; universal design; and kitchen design. *Recommended for students planning to take CFS 238 but not required.* 1 Course Credit

CFS 238 Human Environments n (Interior Design)

Prerequisites: Sophomore standing or above; CFS 237 preferred

Offered: Typically every Spring Term

Selection of interior elements of housing: furniture, finishes, textiles, accessories; residential and commercial applications; characteristics of textiles used in home furnishings; incorporation of sustainable design and historical influences. Arts Perspective. Course Fee: \$15. 1 Course Credit

CFS 245 Community Resources for Families

Prerequisites: GSTR 110 (or waiver) and one CFS course; OR permission of instructor

Offered: Typically alt. Spring Terms (next offered Spring 2014)

This course defines and models the components and characteristics of service-learning within the context of families and communities. The primary emphasis will be to identify and gain insights about various community systems, programs, and services (public, private, and non-profit organizations) that support an effective quality of life for families. The broad context of the course examines public health, food and nutrition needs, concerns, and services directed toward each stage of the lifecycle. Students will engage in meaningful work with community food and nutrition agencies, health-care groups, and other social entities that serve families. Particular emphasis will be placed on enhancing library and research skills,

critical reading, active listening skills, and effective interviewing, speaking, and writing skills. May be approved on a term-by-term basis to meet the Active Learning Experience (ALE) requirement. Course Fee: \$10. 1 Course Credit

CFS 252 Methods in Teaching Family and Consumer Science Education (EDS)

Prerequisite: Sophomore standing or above; open to CFS Education Studies majors or permission of instructor

Offered: Typically as student interest and faculty availability allow

Methods specific to teaching Family and Consumer Sciences in middle and high schools and in adult education, including Special Topics such as developmentally-appropriate instruction, curriculum development, student organizations, and teaching reading in the content area. Assessment of the relationship between teaching methods and cognitive science. Course Fee: \$10. 1 Course Credit

CFS 313 Infancy and Early Childhood

Prerequisite: CFS 130 or permission of instructor

Offered: Typically alternate Spring Terms (next offered Spring 2014)

An intensive study of growth and development from conception through early childhood. Stress is placed on a critical study of the physical, social, emotional, cognitive-perceptual, and moral-conscious aspects of development. Such topics as individual differences, social and family diversity, play and developmentally appropriate learning activities, assessment and data collection, working with parents, interdisciplinary service delivery models, and intervention resources and strategies for working with individuals and families are examined in view of normative and non-normative development in prenatal life, infancy, and early childhood. 1 Course Credit

CFS 315 Middle Childhood and Adolescence

Prerequisite: CFS 130 or permission of instructor

Offered: Typically alternate Spring Terms (next offered Spring 2013)

An intensive study of growth and development from middle childhood through adolescence. Stress is placed on a critical study of the physical, emotional, and social cognitive-perceptual and moral-conscious aspects of development. Emphasis also is placed on non-normative development during middle childhood and adolescence. Directed observations are required. 1 Course Credit

CFS 334 Culinary Arts

Prerequisites: CFS 103 and 115; OR permission of instructor

Offered: Typically alternate years (next offered Spring 2014)

This course examines the conceptual representation of food within historical, socio-cultural, psychological, artistic, and other contexts (food as an art form). Principles of menu planning and management functions for residential and commercial settings are integrated throughout the course. Lab exercises, field trips, and other class activities emphasize basic culinary principles and menu presentation techniques; the study of manufacturing processes, proper selection and care of table appointments; appropriate table-service principles; social etiquette; and a survey of local, regional, national, and international cuisines. Course Fee: \$20. 1 Course Credit

CFS 350 Family Law and Policy

Prerequisites: CFS 207 (also WGS) or permission of instructor

Offered: Typically alternate years (next offered Spring 2014)

An examination of the relationship between law and family. This course explores the inter-relationship between the evolution of family law and societal change, the controversies involving sexual and family privacy, and state versus federal regulation of families. Topics include a legal examination of premarital situations and controversies; capacity to marry and the formalities of marriage; rights and duties of marital partners; annulment and separation; divorce grounds and no-fault divorce; spousal support and basic issues of property distribution; rights and responsibilities of parenthood; definitions of parent (surrogacy, adoption, presumptions of legitimacy); principles governing child custody and visitation; child support; legal protection of individuals within the family (domestic violence, child abuse, medical decisions); and regulation of non-traditional relationships (unmarried heterosexual and same-sex couples). In addition, this course examines public policy as it affects the family, including tax, civil rights, social security, and economic support laws and regulations. 1 Course Credit

CFS 353 Childhood Guidance and Discipline

Prerequisite: CFS 130, EDS 227, or EDS 228, or permission of instructor

Offered: Typically as student interest and faculty availability allow (next offered Fall 2011)

A study of the social development of young children focusing on theories of guidance, systematic guidance strategies, behavioral goals and outcomes, as well as a focus on developmentally appropriate learning goals, best practices applications, and problem-solving strategies in working with children in learning environments and family settings. 10 field hours *are required*. 1 Course Credit

CFS 356 The Exceptional Child

Prerequisite: CFS 130, EDS 227, or EDS 228, or permission of instructor

Offered: Typically alt. years (next offered Spring 2013)

An introductory course focusing on definitions, assessment, etiology, psychological effects, and treatment of mental retardation, impaired hearing, speech and vision, orthopedic problems, epilepsy, autism, childhood schizophrenia, the gifted child, and others. Attention is devoted to an introduction to individual differences and cultural, family, and social diversity, legal and ethical guidelines, intervention resources and strategies, interdisciplinary service models, and IEPs and IFSPs. 10 field hours. 1 Course Credit

CFS 358 Child Health and Assessment (NUR)

Prerequisite: Permission of instructor

Offered: Typically as student interest and faculty availability allow

This course is designed as a comprehensive study of the health and safety needs of young children (birth through age 8) and the use of multiple assessments of children's development. Content will include prenatal and postpartum care; immunizations; chronic and acute health-care needs; safety issues and good health practices; legal and ethical considerations; evaluation of assessment instruments; and assessment report composition. Students also will become competent in the use of multiple assessments-such as observations, checklists, interviews, anecdotal records, play-based assessments, and norm-and-criterion-referenced tools as prescribed by state and national organizations and learned societies-and will be prepared to make professional decisions regarding screening, assessment, initial program planning, program modification, and program evaluation for young children. Emphasis will be placed on the culturally sensitive collaboration between the student and the families as part of a multi-disciplinary team. 20 field hours. Course Fee: \$15. 1 Course Credit

CFS 360 Curriculum and Materials in Early Childhood Education (EDS)

Prerequisite: CFS 130; OR permission of instructor

Offered: Typically as student interest and faculty availability allow

This course is designed to study the foundations of curriculum, the different curriculum areas, the sequence of learning activities, and the curricular materials and activities used in developmentally appropriate learning environments for children from infancy through age five. Using research as well as best current practices and other resources, the student will explore the nature of and the appropriate use for indoor and outdoor equipment, and examine how individually and developmentally appropriate materials and equipment are used to facilitate and encourage the natural or normal sequence of development of the young child and meet

the programmatic objectives. Attention will be focused on developing an appreciation for the value of play, learning strategies, creating healthy and safe environments. 10 field hours. Course Fee: \$10. 1 Course Credit

CFS 362 Contemporary Family Issues

Prerequisite: CFS 207 (also WGS) or permission of instructor

Offered: Typically alt. Spring Terms (next offered Spring 2014)

In-depth examination and ethical consideration of contemporary issues that affect family functions and relations. Includes an overview of family-science theories and addresses such topics as balancing needs of children and adults, divorce, single-parent families, stress, demographic shifts, work-related issues, sub-cultural variations, reproductive technologies, family violence, drug/alcohol abuse, foster care, and social services. Issues are examined through readings in professional journals and research-based publications and discussed in a seminar format. 1 Course Credit

CFS 366 Cross-Cultural Perspectives on Family (WGS)

Prerequisite: SOC 100 or permission of instructor

Offered: Typically every Fall Term

Study of cultural influences upon family functions, structures, and behaviors, focusing on the recognition and understanding of cultural similarities and differences. Covers topics such as cross-cultural interrelationships among economy, government, religion, and family; kinship systems and patterns of marital residence; cultural variations in power distribution and sex roles; differences in childrearing patterns; universal shifts from "traditional" families; and variations in roles of aging family members. African Americans', Appalachians', and Women's Perspective and World Culture (Western) component of the International Perspective. 1 Course Credit

CFS 380 Methods of Teaching in Early Childhood Education (EDS)

Prerequisite: CFSIEDS 210 and 360; OR permission of instructor

Offered: Typically as student interest and faculty availability allow

Consideration of theories, philosophies, principles, curricula, and materials in the teaching-learning process involved with sociodramatic play, art, music, literature, literacy and language, sensory experiences, mathematics, health and nutrition, science, social studies, and activities for large- and small-muscle development. The student will plan, design, and implement developmentally appropriate activities for multi-ability children in child-care programs, schools, and in home environments, as well as assist in the overall operation of a program for young children and develop best practices management knowledge and skills in preparation for teaching practicum. 24 field hours. Course Fee: \$10. 1 Course Credit

CFS 382 Early Childhood. Special Education (EDS)

Prerequisite: CFS 130 and CFSIEDS 210; OR permission of instructor

Offered: Typically as student interest and faculty availability allow

This course is designed for students preparing to teach children birth through age five, and comprises a comprehensive study of early-childhood special education focusing on historical developments; the impact of technology; local, state, and federal requirements; characteristics of children with disabilities; IEP and IFSP requirements and management; cultural diversity; screening, diagnosis, and assessment of young children who need special services; learning center and home-based service delivery; curriculum and instructional considerations; and, relating to, involving, and supporting families of children with disabilities. 24 field hours. Course Fee: \$15. 1 Course Credit

CFS 441 Family Resource Management

Prerequisite: CFS 130,145,207 (also WGS), and CFS 221, or concurrent enrollment and senior standing

Offered: Typically every Fall Term

This course is one of two required capstone courses for CFS majors. Focuses on decision-making and organizational processes to achieve individual and family goals through the effective use of resources. Integration of theoretical concepts of the management process and application of concepts in Home Management House practicum. Active Learning Experience (ALE). Course Fee: \$15. 1 Course Credit

CFS 475 Teaching Practicum in Interdisciplinary Early Childhood Education (EDS)

Prerequisite: Completion of all required major and education courses for IECE program AND Admission to Student Teaching

Offered: Typically as student interest and faculty availability allow (offered Fall 2012)

Students in the Interdisciplinary Early Childhood Education program will spend 12-14 weeks in various approved birth through kindergarten settings under the joint guidance of supervising teachers and the early childhood education faculty of the Child and Family Studies Program. Students will develop and implement learning environments and educational experiences for multi-ability and multi-age children and their families in home-based, center-based, and school programs. All students will attend weekly one-hour seminars. By the end of the teaching practicum, students will have completed all TEP Written Assessment requirements. 3 Course Credits

CFS 480 Senior Seminar

Prerequisite: CFS 130,145,207 (also WGS), CFS 221, AND CFS 441, OR concurrent enrollment and senior standing

Offered: Typically Fall and Spring terms

Survey of social-science research methodology and data analysis from the perspectives of a researcher and a consumer of professional research. Each student conducts an individual research project that integrates material from previous courses. Satisfactory oral and written presentations of the final project are required. Includes an overview of the foundations of the field of Family and Consumer Sciences in terms of individual, family, and community interaction and service, and an exploration of professional resources, organizations, and publications. For students with double majors, approval may be granted to substitute a comparable research course from another program within the division. 1 Course Credit

CFS 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

CFS 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

CFS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description. NOTE: To count as a CFS Internship, the primary sponsor must be a full-time member of the CFS faculty. The CFS Program has imposed specific expectations for Internship within this program. Please check with the program coordinator for additional information.

1 to 3 Course Credits

CFS 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

CFS 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

COMMUNICATION

COM 100 Introduction to Communication

Offered: Typically Fall and Spring terms

A skill approach to the study of communication. Students will deliver speeches and participate in interpersonal communication exercises and activities to increase competence in assertiveness, expressiveness, and skills that enhance communication. Students will learn effective listening.

1 Course Credit

COM 103A Competitive Speech and Interpretation Practicum

Prerequisite: Permission of instructor

Offered: Fall and Spring terms

Intensive study of public speaking through experience in co-curricular speech and interpretation activities. Students will participate in competitive intercollegiate speech and interpretation events, as well as on-campus speaking activities, and will receive individual and group training in oral communication. May be repeated for credit up to one (1) full course credit.

1/4 Course Credit

COM 103B Competitive Debate Practicum

Prerequisite: Permission of instructor

Offered: Fall and Spring terms

Intensive study of argumentation and public speaking through experience in co-curricular debate activities. Students will participate in competitive intercollegiate debate, as well as on-campus speaking activities, and will receive individual and group training in oral communication. May be repeated for credit up to one (1) full course credit.

1/4 Course Credit

COM 201 Argumentation and Debate

Offered: Typically alternate years (next offered Spring 2014)

An examination of the theory and process of argumentation and debate. Students investigate and participate in reasoned advocacy with emphasis on evidence selection, analysis, and critical decision making, inference, and refutation. Practical Reasoning (PR).

1 Course Credit

COM 203 Persuasion

Offered: Typically alternate years (next offered in Spring 2013)

The study of the art of developing means of persuasion. Students will investigate scholarship from both humanistic and behavioral perspectives to learn about processes of social influence. Designed to help students become astute consumers of persuasion and to improve their persuasive writing and speaking skills. Practical Reasoning (PR).

1 Course Credit

COM 206 Interpersonal Communication

Offered: Typically alternate years (next offered Fall 2013)

The study of human communication as a foundation of personal identity and growth, as well as a means of interacting with others. Students will examine theories of the interpersonal communication process; consider how gender, culture, and social context affect communication; and assess the effectiveness of their own interpersonal communication. NOTE: Noncredit for students who completed COM 101.

1 Course Credit

COM 207 Intercultural Communication

Offered: Typically alternate years (next offered Spring 2013)

An examination of the relation of culture and communication. Students will study the fundamental themes and theories of communication among members of diverse cultures. Students will engage in learning experiences intended to develop their skills in constructive intercultural communication. NOTE:

Noncredit for students who completed COM 102.

1 Course Credit

COM 211 Broadcast Journalism I

Offered: Typically alternate fall terms

A gateway course to the broadcasting minor. It offers basic skill instruction in camera operation, lighting, audio, broadcast directing, and single and multiple-source editing with emphasis on underlying principles of video technology. At the end of the course, students will also have a thorough knowledge of broadcasting writing, including interviewing and script development. Arts Perspective. 1 Course Credit

COM 220 Theories of Communication

Prerequisite: GSTR 210 and COM 100

Offered: Typically annually

Survey of theories of communication. Students investigate communication models and theories pertaining to interpersonal, intercultural, nonverbal, group, organizational, and mass communication. NOTE:

Noncredit for students who completed COM 300. Social Science Perspective.

1 Course Credit

COM 284 Workshop in Composition/Rhetoric (ENG)

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically alternate years (next offered 2013-2014)

A course that allows students to further explore and practice writing skills in topics such as written argumentation, prose style, and research writing. Conducted as a workshop, with student and instructor criticism of work. May be repeated for credit, provided the topic differs from those previously studied.

1 Course Credit

COM 302 Organizational Communication

Prerequisite: COM 100

Offered: Typically alternate years (next offered Fall 2014)

The study of communication in organizational life. Students will explore research and study theories that focus on the function of communication in nonprofit, civic, service-related, and corporate cultures.

1 Course Credit

COM 305 Interracial Communication (AFR)

Prerequisite: GSTR 110 or permission of instructor

Offered: Typically alternate years (next offered Spring 2013)

An examination of the role of communication in the construction of race as a basis for similarity/difference; the ways that communication about race form a basis for individual, cultural, and national identities; and theories about interracial and intercultural communication. Considers communicative dynamics of interracial conflict, friendships, intimate relationships, families, and work relationships through readings, discussion, writing- and research-based assignments, and media examples. NOTE: Noncredit for students who completed COM 386: *Interracial Communication* in Spring 2009.

1 Course Credit

COM 310 Communication and Gender (WGS)

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically alternate years (next offered Spring 2014)

An examination of the role of gender in communication at the interpersonal, public, and cultural levels. Includes the study of historical and contemporary scholarship on gender; media representations of femininity and masculinity; similarities and differences in communication styles among genders; and the role played by communication in the shaping of gender. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

COM 311 Broadcast Journalism II

Prerequisite: COM 211

Offered: Typically alternate spring terms

An advanced workshop course in the modes, practice, and ethics of broadcasting with a dual focus on talent and production. The workshop will feature exercises in: anchoring, interviewing, lighting and audio design, editing, live set management, and news programming. While developing knowledge and skills, students will also be challenged to engage in critical thinking and reflexivity as they learn how to develop accurate, ethical, and engaging multimedia news programming. 1 Course Credit

COM 312 Mass Communication

Prerequisite: GSTR 110 or permission of instructor

Offered: Typically alternate years (next offered Fall 2013)

The study of the relationship between mass communication and mass culture. Students examine the dynamic nature of print and electronic media, with specific attention on how television affects cultural norms and choices. NOTE: Noncredit for students who completed COM 202. 1 Course Credit

COM 315 Public Relations

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically alternate years (next offered Fall 2013)

Emphasizes both the theory and practice of public relations by exploring the evolution of the field, the range of roles and responsibilities public relations practitioners assume in a variety of settings, the significant issues and trends that have shaped the practice of PR, and by providing an opportunity to create from scratch a PR campaign for a local community partner. Addresses the ethics of public relations practice and how values shape an organization's ability to build successful relationships with its publics. NOTE: Noncredit for students who completed COM 386P: *Public Relations* in Fall 2009.

1 Course Credit

COM 410 Senior Seminar in Communication

Prerequisite: COM 220 (formerly 300) and senior standing

Offered: Typically every Fall Term

An advanced seminar, normally taken in the senior year, with readings and research leading to the production and presentation of a formal research paper or project. NOTE: Noncredit for students who have completed COM 400. 1 Course Credit

COM 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

COM 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

COM 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

COM 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

COM 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

COMPUTER SCIENCE

CSC 111 Storytelling Through Computer Animation

Prerequisite: Completion or waiver of MAT 012

Offered: Typically each Fall Term

Technology has opened up new horizons in the creative art of storytelling by making it possible for stories to be interactive, blurring the boundary between the storyteller and the audience. Using a graphically-based object-oriented programming language, students in this course will learn to design and construct virtual worlds with 3D objects and characters. Students will gain knowledge in advancing plot, building themes, and developing characters while employing visual elements such as location, camera angle, lighting, and point-of-view, as they create interactive stories, animated movies, and simple video games set in these virtual worlds. No previous computer programming experience is required. Arts Perspectives and Practical Reasoning (PR).

1 Course Credit

CSC 114 Business Applications & Programming (BUS)

Prerequisite: Completion or waiver of MAT 012

Offered: Typically each Spring Term

An introduction to various important computer applications in business and to computer programming to solve business related problems. The emphasis of the course is on developing practical skills that prepare students to effectively use important business application packages in Microsoft Office, specifically databases using Access, presentations using PowerPoint, and spreadsheets using Excel. The students will also learn how to develop event-driven Excel macros with Visual Basic for Applications (VBA) to solve specific problems. Basic programming concepts introduced include variables and data types, assignment and computation statements, conditional statements, repetitive constructs, and simple data structures.

This course is open to all students and can be used to satisfy an upper-level elective in the Business Administration major. Practical Reasoning (PR).

1 Course Credit

CSC 125 Introduction to Internet Programming

Prerequisite: Completion or waiver of MAT 012

Offered: Typically each Spring Term

This course will introduce the student to major themes of computer science, including computer usage in application programs, an exploration of computer hardware, and computer control through computer programming. Constructs of computer programming, such as representation of numbers and usage of variables, as well as assignment, conditional, and repetition statements, will be covered. Students will learn to program in HTML to create Web pages. Common application environments such as the spreadsheet and database will be discussed, and an additional programming language will be selected to further explore these themes. Practical Reasoning (PR).

1 Course Credit

CSC 126 Introduction to Robotics

Prerequisite: Completion or waiver of MAT 012

Offered: Typically every Fall Term

Robots often perform tasks that are too dull, too dirty, or too dangerous for humans. Robots entertain us, clean our houses, mow our lawns, build our cars, fight our wars, perform surgery on our bodies, dive to the bottoms of the deepest oceans on our planet, and visit distant planets in our galaxy. This course introduces the fundamental concepts of robotics. Topics include how robots move, sense, and perceive the world around them. Students will construct and program robots in laboratory sessions. No previous computer programming or electronics experience is necessary. Practical Reasoning (PR).

1 Course Credit

CSC 226 Introduction to Programming with C++

Prerequisite: CSC 111 or 114 or 125 or 126; OR permission of instructor

Offered: Typically every Spring Term

This course will be concerned with an introduction to the C language, emphasizing structured programming. The course will include pseudocode and stepwise refinement as means of algorithm development. Other programming topics will include data types, arrays, structures, functions, and files.

1 Course Credit

CSC 236 Data Structures

Prerequisite: CSC 226 with a grade of C or higher

Offered: Typically every Fall Term

This course continues the introduction to the methodology of programming from an object-oriented perspective with an emphasis on algorithms, data structures, and software engineering.

1 Course Credit

CSC 303 Theory of Computation

Prerequisite: CSC 111 or 114 or 125 or 126 or 226 AND MAT 105

Offered: Typically alternate Fall Terms (next offered Fall 2014)

An introduction to the fundamental ideas and the basic paradigms of computer science, the very foundation on which to base one's thinking about computers now and in the future. This course will address some of the following topics in the theory of computation—the theory of automata and formal languages, computability by a Turing machine, and computational complexity. Computational tasks that cannot be solved on any computer or tasks where there is no practical, reasonably fast algorithm to solve them will be considered. The perspective here is from that of computing, but the treatment is mathematical in nature.

1 Course Credit

CSC 325 Operating Systems with an Emphasis on Unix

Prerequisite: CSC 236 with a grade of C or higher; OR permission of instructor

Offered: Typically alternate Spring Terms (next offered Spring 2013)

This course will introduce the main concepts from both traditional and distributed operating systems. Topics will include: goals, structural concepts, process management, memory management, storage management, and security issues. Examples will be drawn from a variety of operating systems, but the majority of the examples will come from the UNIX system.

1 Course Credit

CSC 330 Database Systems

Prerequisite: CSC 226 with a grade of C or higher

Offered: Typically alternate years (next offered Spring 2013)

An introduction to the use and operating principles of database management systems. Topics covered include: data entities and relationships; data modeling using entity-relation diagrams: hierarchical, network and relational models of databases; the SQL query language; relational algebra and calculus as applied to the design of databases; security and integrity in the context of concurrent use; and ethical issues associated with database design and use.

1 Course Credit

CSC 340 Computational Intelligence

Prerequisite: CSC236 or permission of instructor

Offered: Typically alternate Fall terms (next offered Fall 2013)

An introduction to artificial intelligence through an area called "machine learning," this course focuses on the principles and implementation practices of programs that search for solutions to problems using heuristic algorithms. Students will learn how to create programs and test simulators that demonstrate how computer systems can (a) "intelligently" find solutions and (b) adapt and learn to respond correctly to new problem sets.

1 Course Credit

CSC 433 Numerical Analysis (MAT)

Prerequisite: MAT225; one course chosen from CSC 111,114,125,126,226; AND one course chosen from MAT 214,315, or 330

Offered: Typically alternate Spring Terms (next offered Spring 2014)

This course is designed for students who are concerned with the development of approximation methods and their use in locating roots of equations, interpolation, numerical differentiation, numerical integrations, and solution of systems of linear equations.

1 Course Credit

CSC 435 Computer Organization

Prerequisite: CSC 236 and TAD 265

Offered: Typically alternate Spring Terms (next offered Spring 2013)

A study of the design of modern computer systems with a focus on the interaction between hardware design and system software: instruction sets, cache and virtual memory in the context of the memory hierarchy, combinatorial and sequential logic design, high-level processor architecture, memory and processor organization, and parallel computing.

1 Course Credit

CSC 440 Design and Analysis of Algorithms

Prerequisite: CSC 236 AND one of the following: MAT 105 or MAT 125 or higher-numbered MAT course

Offered: Typically alternate Spring Terms (next offered Spring 2014)

A study of algorithmic approaches to problem-solving, and techniques for designing, analyzing, and comparing algorithms. Approaches such as divide-and-conquer, dynamic programming, and backtracking will be studied. Topics in computational complexity include asymptotic complexity measures, intractability, and NP-complete problems.

1 Course Credit

CSC 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

CSC 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

CSC 493 Senior Projects

Prerequisite: Senior standing

Offered: Typically every Fall Term

Students apply modern software engineering approaches to the development of an original, well-documented, industry-strength software product. The product deliverables will include a product proposal, a specifications and requirements document, an architecture and design document, a test plan document, project status reports, and the code base implementation with quality documentation. Students will demonstrate their understanding by presenting and demonstrating the structure and applied elements

of their project. Students will need to apply technical, organizational, and communication skills to this project. Successful completion of this course will meet Berea's Computer and Information Science Major capstone requirement. 1/2 Course Credit

CSC 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

CSC 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

CSC 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Economics

ECO 101 Principles of Macroeconomics

Prerequisites: Completion or waiver of MAT 012; first-year or sophomore standing preferred

Offered: Typically Fall and Spring terms

An introduction to the nature and method of economics. Emphasis on the determination of the level of national income, output, employment, and prices. Topics include monetary policy, fiscal policy, and economic growth; may include comparative economic systems, and international trade and finance. Social Science Perspective.

1 Course Credit

ECO 102 Principles of Microeconomics

Prerequisites: Completion or waiver of MAT 012; first-year or sophomore standing preferred

Offered: Typically Fall and Spring terms

An introduction to exchange processes, price and output determination, and alternative market structures, both in the product and resource markets. Additional topics include the role of government, public goods, income distribution, and resource or environmental economics. Social Science Perspective.

1 Course Credit

ECO 250 Applied Statistics

Prerequisites: MAT 115 (or waiver); requirement met OR permission of instructor; sophomore or junior standing preferred

Offered: Typically Fall and Spring terms

Selected statistical methods applied to economic and business data. Methods include data-based techniques of graphical display, descriptive statistics, simple probability models based on random variables, one and two sample inference on means and proportions, analysis of variance, correlation, and regression. Practical Reasoning with Quantitative Emphasis (PRQ). NOTE: This course is noncredit for students who completed MAT 438.

1 Course Credit

ECO 301 Intermediate Macroeconomics

Prerequisites: ECO 101 or permission of instructor; and MAT 135 (or waiver)

Offered: Typically every third regular term (next offered Spring 2014)

Theory of aggregate income determination in the long run and over the business cycle. Development of models of consumption, investment, net exports, and government spending in both a static and dynamic setting. Includes the effect of fiscal and monetary policy on income and other macroeconomic variables.

Social Science Perspective.

1 Course Credit

ECO 302 Intermediate Microeconomics

Prerequisites: ECO 102 or permission of instructor; and MAT 135 (or waiver)

Offered: Typically every third regular term (next offered Spring 2013)

Theory of the economic behavior of households and firms in a market context. Includes the development of the determinants of demand, cost, production, and supply. Development of equilibrium models of exchange and welfare economics. Social Science Perspective.

1 Course Credit

ECO 310 Research in Economics I

Prerequisites: ECO 301 or 302, and junior standing

Offered: Typically every Spring Term

An introduction to research in economics focusing on the development of research questions, the practice of literature review, and writing in economics. The course culminates in the development of a research proposal that will be used to guide the research to be undertaken in BCO 410.

1/2 Course Credit

ECO 332 Money and Banking

Prerequisites: ECO 101 or 102; sophomore or junior standing preferred

Offered: Typically every Fall Term

Money, banks, and financial markets; the role of money in the economy, monetary theory, and policy; and international monetary relationships.

1 Course Credit

ECO 341 Economic Development: Theory and Application

Prerequisites: One introductory course in ECO, HIS, PSC, or SOC; AND ECO 101 or 102

Offered: Typically every third regular term (next offered Fall 2013)

A study of the human dimensions of societal development. The course includes theoretical approaches to economic development and social change, comparative consideration of the economic and social structural characteristics of less-developed countries, and an examination of the relationship between development policy and factors of social change. International Perspective (Western).

1 Course Credit

ECO 347 International Economics

Prerequisite: ECO 102

Offered: Typically every third regular term (next offered Spring 2013)

Theory and practice of international trade, foreign exchange, balance of payments, and international economic policy.

1 Course Credit

ECO 350 Econometrics

Prerequisites: ECO 250 and completion or waiver of MAT 135

Offered: Typically every third regular term (Next offered Fall 2013)

An introduction to the construction, evaluation, and use of statistical models of economic behavior. Models will be used to both predict and explain economic behavior. Time series models, single-equation models, and multi-equation models will be covered with an emphasis on estimation methods, tests of model assumptions and adequacy, and forecast performance. The course includes a number of modeling exercises using computer software.

1 Course Credit

ECO 360 International Political Economy (PSC)

Prerequisites: ECO 101 or 102

Offered: Typically every third regular term (offered Fall 2012)

A study of the global economy and the interplay of collective interests, and governmental and non-governmental institutions in developing and modifying the rules that guide the global economic system of trade and commerce. This course introduces students to the body of international political economy (IPE)

addressing the relationship between politics and economics in the international system. Discusses global economic political history and the development of theory guiding the study of JPE. Central topics include: international trade, foreign investment flows, international monetary relations, economic development, current crises, and global environmental affairs. 1 Course Credit

ECO 366 Public Finance

Prerequisite: ECO 101 or 102

Offered: Typically every third regular term (next offered term yet to be determined)

Social goals and fiscal institutions-federal, state, and local-including analysis of public expenditures, taxation, the national debt, and fiscal federalism. 1 Course Credit

ECO 370 Environmental Issues in Public Policy

Prerequisite: ECO 101 or 102; or permission of instructor

Offered: Typically every third regular term (next offered term yet to be determined)

An examination of critical environmental and natural-resource issues and the associated public-policy responses. The aim of the course is to analyze the role that public policy currently plays-and the role it should play-in helping manage and protect our local, national, and global environment. Social Science Perspective. 1 Course Credit

ECO 410 Research in Economics II

Prerequisite: ECO 310 and permission of instructor

Offered: Typically Fall and Spring terms

Economics majors are required to register for this Capstone experience during the senior year (according to the schedule agreed upon with their faculty mentor). Students enrolled in this course will pursue the research specified previously in the research proposal prepared in ECO 310. This student-led and faculty-business/economics of which 27 must be in accounting, and 150 hours overall. The courses suggested above are selected based on their content relative to the content of the CPA exam. As such, these courses are not required, but are recommended in order of priority. Your interest in a particular area of accounting, or your plans for a particular graduate program, may lead you to consider other options for the required additional courses, perhaps including Mathematics, Computer Science, Economics, or other areas. A student must explore these in consultation with her or his Academic Advisor.

ECO 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

ECO 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

ECO 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

ECO 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

ECO 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Business

BUS 110 SIFE Leadership

Offered: Typically Fall and Spring terms

An introduction to the leadership, team building, motivation, assessment, and project-management skills needed to design and implement successfully SIFE (Students In Free Enterprise) service projects, as well as the skills needed to present those projects at regional and national competitions. SIFE is an international organization that focuses on providing opportunities for community members to excel in their chosen fields by teaching participants a variety of success skills. May be repeated a maximum of six (6) times for credit, provided each topic differs from those previously studied.

1/4 Course Credit

BUS 114 Business Applications & Programming (CSC)

Prerequisite: Completion or waiver of MAT 012

Offered: Typically each Spring Term

An introduction to various important computer applications in business and to computer programming to solve business related problems. The emphasis of the course is on developing practical skills that prepare students to effectively use important business application packages in Microsoft Office, specifically databases using Access, presentations using PowerPoint, and spreadsheets using Excel. The students will also learn how to develop event-driven Excel macros with Visual Basic for Applications (VBA) to solve specific problems. Basic programming concepts introduced include variables and data types, assignment and computation statements, conditional statements, repetitive constructs, and simple data structures.

This course is open to all students and can be used to satisfy an upper-level elective in the Business Administration major. Practical Reasoning (PR).

1 Course Credit

BUS 120 Accounting I

Prerequisites: Completion or waiver of MAT 012; first-year or sophomore standing preferred

Offered: Typically Fall and Spring terms

Introduction to accounting processes, the accounting cycle, balance sheets, income statements, and related elements. Practical Reasoning (PR).

1 Course Credit

BUS 130 Accounting II

Prerequisites: BUS 120; first-year or sophomore standing preferred

Offered: Typically Fall and Spring terms

Introduction to analysis, including accounting for stockholder's equity, long term liabilities, investments, cash flow, budgeting, cost systems, cost-volume-profit relationships, financial statements analysis, and like topics.

1 Course Credit

BUS 240 Business Law

Prerequisites: GSTR 210; sophomore or junior standing preferred

Offered: Typically Fall and Spring terms

Introduces the legal relationships, analysis, and principles that are basic to business. Cases from law of contracts, agency, and negotiable instruments.

1 Course Credit

BUS 257 Consumer Behavior

Prerequisites: GSTR 210; sophomore or junior standing preferred

Offered: Typically every third regular term (next offered Spring 2013)

A study of the major factors influencing consumer behavior and the managerial uses of models of consumer decision making. Examination of the social, psychological, and economic factors of buying behavior that are identified by alternative models of consumer decision making. Emphasis is on the use of consumer-behavior models in the development of marketing strategies. Social Science Perspective.

1 Course Credit

BUS 315 Management

Prerequisite: BUS 120 or ECO 102; or permission of instructor

Offered: Typically Fall and Spring terms

An interdisciplinary consideration of the function of management in organizations with emphasis on business. Considers systems and theories, including environments, structure and processes, decision-making, planning and change, and like topics.

1 Course Credit

BUS 323 Income Tax

Prerequisite: BUS 130

Offered: Typically every third regular term (next offered Spring 2013)

Study of Internal Revenue Code. Emphasizes problems of determining and reporting income and expenses of individuals and small businesses.

1 Course Credit

BUS 324 Managerial Accounting

Prerequisite: BUS 130

Offered: Typically every third regular term (next offered Fall 2013)

The utilization of accounting in management processes. Emphasis on cost-accounting systems, budgeting, standard costing, activity based costing, cost-volume-profit relationships and pricing decisions.

1 Course Credit

BUS 326 Intermediate Accounting I

Prerequisite: BUS 130

Offered: Typically every Fall Term

An in-depth study of financial accounting topics and reporting practices. Broad topics of interest include financial accounting functions, basic theory, asset recognition, valuation, and measurement. Emphasis is placed on the development of problem-solving ability in a complex environment.

1 Course Credit

BUS 327 Intermediate Accounting II

Prerequisite: BUS 326

Offered: Typically every Spring Term

An in-depth study of financial accounting topics and reporting practices. Broad topics of interest include liability recognition and measurement, stockholder's equity, dilutive securities and investments, issues related to income measurement, and preparation and analysis of financial statements. Continued emphasis on the development of problem-solving ability in a complex environment.

1 Course Credit

BUS 345 Human Resources Management

Prerequisites: Junior or senior standing preferred

Offered: Typically every third regular term (offered Fall 2012 and Spring 2014)

Introduction to the human-resource function' in organizations, with emphasis on business. Considers human-resource planning, employee rights and obligations, job analysis, recruitment, career dynamics, training, compensation, labor, government relations, and other topics.

1 Course Credit

BUS 346 Investment Analysis

Prerequisites: BUS 130 and ECO 250; junior or senior standing preferred

Offered: Typically every third regular term (next offered Fall 2013)

An investigation of investment strategies involving the integration of modern portfolio theory and capital market theory with traditional fundamental and technical analysis. Descriptive information about the investment environment is included, as well as recent theoretical developments made toward understanding how capital markets function, how prices of investment instruments are determined, and how a balance is struck between risk and return. 1 Course Credit

BUS 363 Marketing

Prerequisites: GSTR 210 AND ECO 102, or permission of instructor; sophomore or junior standing preferred

Offered: Typically Fall and Spring terms

Introduction to business and cultural environment, ethics, research, segmentation, and other topics. Consideration of product, price, promotion, distribution, and other functions. 1 Course Credit

BUS 364 Production and Operations Management

Prerequisites: MAT 115 (or waiver); requirement met; either ECO 250 or TEC 352; OR permission of instructor

Offered: Typically every third regular term (next offered Spring 2013)

Surveys management of the production function of organizations, with emphasis on business and service. Considers the production function, analytic methods, capacity, location, job design, and operations. 1 Course Credit

BUS 366 Financial Management

Prerequisites: BUS 130 and ECO 250; junior (preferred) or senior standing

Offered: Typically Fall and Spring terms

An investigation into the nature, scope, and method of managerial finance. Emphasis is placed on developing concepts and techniques necessary for making financing and investing decisions. Financial analysis, financial planning and control, working capital management, and capital budgeting are topics of interest. Issues relating to optimal capital structure, dividend policy, and the cost of capital are also included. 1 Course Credit

BUS 367 Marketing Research

Prerequisites: BUS 363 and ECO 250 or MAT 104

Offered: Typically every third regular term (next offered Fall 2012, then Spring 2014)

This course is designed to introduce the various research methods used to collect and evaluate information for marketing decision making. The course will look at both qualitative and quantitative methods of gathering data, analyzing it, and reporting findings. Individual and group projects will be used to allow students to experience the marketing-research process. 1 Course Credit

BUS 368 Intermediate Corporate Finance

Prerequisites: BUS 366; junior or senior standing preferred

Offered: Typically every spring term

A case-based intermediate financial-management course emphasizing the application of theory and practice to financial decision making. Finance topics introduced in BUS 366 are covered in greater depth in this course. Emphasis is placed on the interrelatedness and multidisciplinary nature of various finance topics. The course includes such topics as capital budgeting, capital structure, working capital management, cost of capital, and mergers. 1 Course Credit

BUS 427 Accounting Theory

Prerequisite: BUS 130

Offered: Typically as student interest and faculty availability allow

A consideration of theoretical methodologies and frameworks, valuation concepts, flow problems, income statement and balance sheet accounts, disclosure, and other topics. 1 Course Credit

BUS 437 Introduction to Auditing

Prerequisites: BUS 327

Offered: Typically every third regular term (next offered Fall 2012, then Spring 2014)

Emphasis is placed on standards, objectives, procedures, and professional judgment. Further consideration is given to auditor's legal liability, professional ethics, and reliance on the auditor's professional opinion. 1 Course Credit

BUS 475 Strategic Management

Prerequisite: BUS 315, 363, and 366

Offered: Typically Fall and Spring terms

An examination of the function of strategic management in organizations with emphasis on business. Using the case method, this course considers global perspectives, environments, strategies, competition, governance structure and controls, leadership and entrepreneurship, and like topics. 1 Course Credit

BUS 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

BUS 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

BUS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

BUS 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

BUS 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

EDUCATION

EDS 150 Introduction to Education: Thinking about Learning, Teaching, and Schooling

Prerequisites: GSTR 110 (or waiver) and criminal records clearance completed prior to registration

Offered: Typically Fall and Spring terms

This course is an introduction to the study of education for prospective teachers and others interested in education. The course will offer students the opportunity to explore the following essential questions: 1) What does it mean to learn? 2) What does it mean to teach well? 3) What are schools for? 4) What knowledge, dispositions, and skills are needed in order to teach well? 5) How does diversity affect

teaching, learning, and schooling? The course will introduce some of the foundational ideas, issues, and beliefs-historical, political, economic, philosophical, sociological, psychological, cultural, and social-that impact the current educational climate. Students will be introduced to the Program's conceptual framework, portfolio requirements, and other academic, experiential, and professional expectations and requirements for those pursuing teacher certification. The course will include both field-based experiences and volunteer/service-learning experiences with school-aged children and/or adolescents.

Course Fee: \$20.

1 Course Credit

EDS 210 Foundations of Interdisciplinary Early Childhood Education (CFS)

Prerequisites: CFS130 or permission of instructor

Offered: Typically alt. Spring Terms

This course is designed to help students develop a philosophy of teaching and learning for children birth through kindergarten. Current thought and practice will be examined in light of the early childhood profession and its historical, philosophical, and social foundations. Public policy, legal implications, and a code of ethics will be studied. Theoretical perspectives including psychoanalytic theories, social-learning theories, behaviorism, cognitive and developmental theories, the humanistic models, and the normative-descriptive systems will be used to establish a framework for analysis and assessment. Historical and contemporary models of early-childhood education, such as Head Start, High Scope, Montessori, British Infant Schools, Reggio Emilia, enrichment programs, and comprehensive, compensatory, and intervention models will be examined in view of their effects on children, families, and communities. 10 field hours.

1 Course Credit

EDS 215 Science for Teachers

Prerequisite: EDS 227 or permission of instructor

Offered: Typically offered every Spring Term

This course serves as an introduction to science inquiry for students intending to pursue elementary teaching certification. The course provides an opportunity for prospective teachers to learn and use the methods of science to investigate the natural world that surrounds them. It provides fundamental understandings of a spectrum of sciences and modes of inquiry as it prepares prospective teachers to engage the elementary school curriculum with excitement and vision.

1 Course Credit

EDS 227 Child Development and School Structure

Prerequisite: EDS 150, or permission of instructor.

Offered: Typically Fall and Spring terms

This course focuses on human-development and learning theories from infancy through early adolescence (K-5th grade). The course will explore major theories of children's physical, cognitive and social-emotional development and how children experience the world. Child development will be explored in context with contemporary family issues, such as poverty, challenges of parenting, and schooling. The purpose of this course is to help teachers understand the developmental process of childhood in order to use this knowledge to plan and teach in developmentally appropriate ways. Students will have an opportunity to explore their own attitudes toward children and to consider if teaching is a fitting career choice at this time. To facilitate student learning, an 8-10 hour field experience is required.

1 Course Credit

EDS 228 Adolescent Development and School Structure

Prerequisite: EDS 150 or permission of instructor.

Offered: Typically Fall and Spring terms

This course focuses on human-development and learning theories of infancy through early adolescence, with emphasis on the middle- and high-school aged child. The course will explore major theories of children's physical, cognitive and social-emotional development and how children experience the world. Child development will be explored in context with contemporary family issues, such as poverty, challenges of parenting, and schooling. The purpose of this course is to help teachers understand the developmental process of childhood in order to use this knowledge to plan and teach in developmentally appropriate ways. Students will have an opportunity to explore their own attitudes toward children and to

consider if teaching is a fitting career choice at this time. To facilitate student learning, an 8-10 hour field experience is required. 1 Course Credit

EDS 249 Middle Grades Culture and Philosophy

Prerequisites: EDS 228 OR permission of instructor

Offered: Typically alternate years

This course will provide middle grades certification students the opportunity to explore the unique cultural and instructional environments that typify U.S. middle schools. Among the issues explored will be the effects of a developmentally diverse student population; strategies for collaboration and planning an integrated curriculum; and the effects of assessment pressure on curriculum, instruction, and school environment. Additionally, this course will position the U.S. conception of "middle school" as a transitional institution situated between elementary school and high school, exploring the unique problems and opportunities created by this structure. 1 Course Credit

EDS 252 Methods in Teaching Family and Consumer Science Education (CFS)

Prerequisite: Sophomore standing or above; open to CFS Education Studies majors or permission of instructor

Offered: Typically as student interest and faculty availability allow

Methods specific to teaching Family and Consumer Sciences in middle and high schools and in adult education, including Special Topics such as developmentally-appropriate instruction, curriculum development, student organizations, and teaching reading in the content area. Assessment of the relationship between teaching methods and cognitive science. Course Fee: \$10. 1 Course Credit

EDS 325 General Teaching Methods

Prerequisite: EDS 228

Offered: Typically offered every Fall Term

This course is designed to engage students in the process of constructing knowledge, gaining skills, and participating in experiences that will help them develop curricula and create effective learning environments for students in middle and secondary grades (6 - 12) and art and technology. The major areas of focus of this course are the nature of the teaching/learning process, planning for instruction, accounting for the nature of children, balancing multiple modes of instruction, integrating instruction across content disciplines, using resources and tools (such as technology) to enhance instruction, as well as creating and managing dynamic learning environments in which all students learn. Students will become familiar with and demonstrate evidence of the knowledge, skills, and dispositions necessary for effective beginning teaching. During the field placement with a local teacher, students begin developing and practicing basic skills necessary to teach in their content specialization area. 1 Course Credit

EDS 330 Extended School Experience

Typically offered: annually

For students who seek Music Certification. Students will develop and implement units of instruction for students in a particular classroom setting. Students, through their work in developing appropriate instructional materials and in actual teaching, will acquire necessary understandings and skills for successful classroom teaching and assessment as they prepare to enter the professional term (student teaching). Special attention is directed to preparing evidence of addressing Kentucky Teacher Standards 1-IV. The course requirements for EDS 330 parallel a major portion of the professional knowledge criteria of the Professional Education Portfolio that students must meet satisfactorily for admission to the professional term. Consistent with the Kentucky Teacher Standards, students should expect to be able to meet the following specific Objectives during the course of their practica. 1 Course Credit

EDS 335 Integrated Curriculum I

Prerequisite: EDS 227

Offered: Typically every Fall Term

How can teachers help students cultivate habits of mind and heart that enable them to face the challenging truths of their world? How can schools become places where children learn to draw strength from the beauty and goodness within their world? How can those responsible for them help children become able to take on the tasks required to create a vision of a more just world and to be sustained by the joy of working together to bring that world into reality? Because the world is complex, curriculum must be complex. Curriculum must enable the kinds of thinking and doing that enable children to integrate their minds and hearts. In schools, moving beyond the teaching of isolated subjects encourages integrative thinking. EDS 335 provides an introduction to the development of complex lesson and unit plans, curriculum and materials development, and working with young children through holistic practices designed to engage all children in rich and meaningful learning experiences. Students will be helped to understand the nature and place of standards in education and in life; to become familiar with the various standards which influence elementary teachers' professional development and responsibilities; and to see how standards should be used to guide rather than constrict authentic learning. The course includes approximately 10 hours of field experience. Course Fee: \$25. 1 Course Credit

EDS 340 Students with Special Needs- P-5 & Middle Grades

Prerequisites: EDS 227 or 228

Offered: Typically every Fall Term

This course prepares students to make the instructional and organizational modifications necessary so that children with very different academic, physical, emotional, and social needs can learn in the regular classroom. The focus is on children with a variety of special needs, such as physical and learning exceptionalities (including the gifted); English language learners; lack of readiness for learning; and violent behaviors. Students also will explore related issues, including the need to develop understanding and skills in counseling and conflict resolution, means of closing the achievement gap, the nature of family involvement, and teacher rights and responsibilities in accordance with federal law and related policies. Field experiences in local schools and other community agencies are an integral part of the course. 1 Course Credit

EDS 346 Literacy: Intermediate and Middle Grades

Prerequisite: EDS 227 or 228 or permission of instructor

Offered: Typically every Fall Term

Students will examine the intermediate and middle-grades reading/language arts curricula focusing on reading, writing, and content-area literacy. Students will extend their knowledge and appreciation of children's literature in varied genres and learn to integrate literature in inquiry-based, interdisciplinary units of study. Students will deepen their understanding of English spelling, phonics, grammar, vocabulary, and the reading and writing processes, and learn ways to help children acquire understandings and skills in these areas in meaningful contexts. Students will integrate these understandings and skills in these areas with their own vision for the children they teach and with constructivist principles of human development to design rich language experiences for all children. In a weekly field experience, students will design and apply developmentally appropriate literacy experiences for individuals and small groups, taking cues from the children and building on their interests and experiences; creating assessments; and using the findings to plan subsequent learning experiences. This course includes a two-hour weekly field experience. 1 Course Credit

EDS 347 Literacy: Primary, P-3

Prerequisite: EDS 346 or permission of instructor

Offered: Typically every Spring Term

Students will examine the early primary reading language arts curriculum focusing on emergent literacy, oral language, reading, writing, and literature in preschool-grade 3. Students will explore the wealth of children's literature appropriate for primary children, both fiction and non-fiction, and examine its role in furthering children's growth as careful, competent, and confident thinkers, speakers, listeners, readers,

and writers. Students will draw on and deepen their knowledge of the nature of English, and they will integrate their understandings with principles of human development to select and apply strategies for integrating literature in a balanced curriculum that incorporates phonics, spelling, and handwriting. In a weekly field experience with children in preschool through grade 3, students will learn to design and apply developmentally appropriate literacy experiences, create assessments for individuals and for small groups, and use the findings from those assessments to plan subsequent learning experiences for primary learners. The course includes a two-hour weekly field experience. 1 Course Credit

EDS 349 Education and Culture in the United States

Prerequisite: permission of instructor.

Offered: Typically Fall and Spring terms

This course is designed to help classroom teachers and others gain an understanding of how education and schooling may be used to limit or expand individual freedom and opportunities. This course provides a critical examination of contending views of the impact of race, ethnicity, culture, social class, religion, language, nationality, gender and sexual orientation on teaching and learning in the United States. Participants will explore historical and contemporary issues of equity and inequality in society that maintains institutionalized support of privilege in and through schools. Students will be encouraged to view educational issues from a variety of perspectives. Students will critically examine their own socio-cultural identities to better understand how their ways of thinking, behaving, and being are influenced by birth, status and experiences. Students will have multiple opportunities to reflect on how their personal beliefs and experiences will influence their teaching philosophy and practice. 1 Course Credit.

EDS 355 Extended Field Experience: Enriching World Visions

Prerequisites: permission of instructor.

Offered: Typically every Summer Term 1 and/or Summer Term 2

In consultation with the instructor, students will arrange a field experience with a school or service agency that places them in a setting with people of racial, cultural, ethnic, or religious backgrounds different from 'their own. All field experiences locations must be located within the United States and may be a school or non-school setting. Students will undertake field experiences in settings that will challenge them sufficiently to see life through the eyes of those with whom they will work. Students will examine and challenge their beliefs and attitudes about working with others different from themselves and will be encouraged to adopt an affirming attitude and disposition. Students are expected to increase their self-awareness of how interpersonal relationships and community involvement may have a positive impact on teaching and learning for those students they will teach. Students will be expected to build positive relationships with others, to gain an understanding of barriers and obstacles that some students may face, and to begin to consider how they may become change agents assisting schools in being more equitable over time. 1 Course Credit.

EDS 360 Curriculum and Materials in Early Childhood Education (CFS)

Prerequisite: CFS 130 and CFSIEDS 210; OR permission of instructor

Offered: Typically as student interest and faculty availability allow

This course is designed to study the foundations of curriculum, the sequence of learning activities, and the curricular materials used in learning environments for children from infancy through age five. Using research and other resources the student will explore the nature of and the appropriate use for indoor and outdoor equipment, and examine how individually and developmentally appropriate materials and equipment are used to facilitate and encourage the natural or normal sequence of development of the young child and meet the programmatic objectives. Attention will be focused on developing an appreciation for the value of play, learning strategies creating healthy and safe environments, evaluation and assessment, and adapting materials and curricula for multi-ability children in child-care programs, schools, and in the home. 10 field hours. Course Fee: \$10. 1 Course Credit

EDS 380 Methods of Teaching in Early Childhood Education (CFS)

Prerequisite: CFS/EDS 210 and 360; OR permission of instructor

Offered: Typically as student interest and faculty availability allow

Consideration of theories, philosophies, principles, curricula, and materials in the teaching-learning process involved with socio-dramatic play, art, music, literature, literacy and language, sensory experiences, mathematics, health and nutrition, science, social studies, and activities for large and small muscle development. The student will plan, design, and implement developmentally appropriate activities for multi-ability children in child-care programs, schools, and in home environments, as well as assist in the overall operation of a program for young children and develop best-practices management knowledge and skills in preparation for teaching practicum. 24 field hours. Course Fee: \$10. 1 Course Credit

EDS 382 Early Childhood Special Education (CFS)

Prerequisite: CFS 130 and CFS/EDS 210; OR permission of instructor

Offered: Typically as student interest and faculty availability allow

This course is designed for students preparing to teach children birth through age five, and comprises a comprehensive study of early-childhood special education focusing on historical developments; the impact of technology; local, state, and federal requirements; characteristics of children with disabilities; IEP and IFSP requirements and management; cultural diversity; screening, diagnosis, and assessment of young children who need special services; learning center and home-based service delivery; curriculum and instructional considerations; and, relating to, involving, and supporting families of children with disabilities. 24 field hours. Course Fee: \$15. 1 Course Credit

EDS 385 Content Teaching Methods Practicum II

Prerequisite: EDS 325

Offered: Typically offered every Spring Term.

This practicum is designed to provide students the opportunity to learn and practice those teaching methods specifically tied to their area of content specialization. During this experience students will apprentice within a Community of Teachers developing and extending the set of teaching skills that is vital for their successful roles as middle and high school teachers. .25 Course Credit

EDS 435 Integrated Curriculum II

Prerequisites: EDS 335

Offered: Typically every Spring Term

Following skills developed in *Integrated Curriculum I*, this course will provide practice in the arts and in using the arts to create integrated curriculum. Through the related field experience, students will gain teaching skills that will help them integrate understandings gained in EDS 227 with their planning and teaching. The arts provide practice in thinking that integrates imagination with judgment; creativity with purpose, inquiry with contemplation, compromise with integrity. Responsible action requires skill in relating to the world through dialogue, and a commitment to creating relationships that reflect a disposition for dialogical engagement with the world. The processes of creation in the arts are dialogical in nature. Just as the artist must learn to "hear" and respond to the work in progress, the work helps to shape the artist. Engagement in the arts provides opportunities to wonder at the world, assign significance, refine relationships of value, create working definitions of purpose, create direction for development, and to understand how these acts fit together with responsible self-definition. As questions of judgment and value are raised and addressed in creating art, self-understanding grows-the kind of self-understanding that helps provide grounding for co-creating one's place in the world. Experiencing oneself as an artist helps to cultivate the sense of agency that comes with integration among purpose and care, thinking and action. Integrated content that includes the arts is fundamental to educating children in ways that supports their creation of a more just world. Course Fee: \$25. 1.5 Course Credits

EDS 440 Integrated Curriculum III

Prerequisite: EDS 435

Offered: Typically every Spring Term

Following Integrated Curriculum I and II, students in this course will continue to develop their understanding that living responsibly and joyfully in the world requires integrative thinking: Thinking crosses disciplinary boundaries as human beings engage their daily lives as responsible citizens. Students in EDS 440 will explore and develop integrated curriculum with special attention to the elementary social studies, including researching, planning, teaching, assessing, and reflecting upon a series of lessons developed around a theme. Through teacher modeling, direct instruction, and cooperative and individual learning activities, students will learn to assist children in conducting individual and group research using a variety of resources, including textbooks, supplementary trade books, the Internet, and interviews. Embedded in these experiences will be focused instruction to help children grapple with unfamiliar vocabulary, question what they read, synthesize understandings from multiple sources, and share their findings with others. In the related practicum in the local schools, students will integrate their developing knowledge with their own vision for the children they teach and with constructivist principles of human development. One-half credit of field experience accompanies this class. 1.5 Course Credits

EDS 471 Middle Grades Student Teaching Seminar

Prerequisite: Permission of instructor

Offered: Typically every Fall Term

Emphasis in this course is on the development of appropriate instructional units for the assigned Student Teaching settings: Students work with classroom teachers and College faculty to plan and develop activities and materials focused on the specific subject matter in which the student is seeking certification. Other topics include classroom-management techniques, evaluation and assessment of student learning, and motivational techniques. Student teachers are to reflect the values and commitments undergirding Berea's Teacher Education Program in their work and relationships with children, peers, parents, mentors, and other colleagues, and they are expected to meet Berea's program goals prior to completion of the Professional Term. They will be required to submit a satisfactory exit portfolio addressing the Kentucky Teacher Standards established by the Kentucky Education Professional Standards Board. Taken concurrently with EDS 472. 1 Course Credit

EDS 472 Middle Grades Student Teaching

Prerequisite: EDS 479

Offered: Typically every Fall Term

This course involves observation, participation, teaching, and a wide variety of school-related activities under the guidance of supervising teachers and staff members of the Education Studies Program. Student teachers will spend at least twelve (12) weeks, five (5) full days per week, in their assigned placement(s). Students will be expected to complete satisfactory entries for the Eligibility (exit) Portfolio required for initial teacher certification. Taken concurrently with EDS 471. 3 Course Credits

EDS 475 Teaching Practicum in Interdisciplinary Early Childhood Education (CFS)

Prerequisite: Completion of all required major and education courses for IECE program AND Admission to Student Teaching

Offered: Typically as student interest and faculty availability allow

Students in the Interdisciplinary Early Childhood Education program will spend 12-14 weeks in various approved birth through kindergarten settings under the joint guidance of supervising teachers and the early-childhood-education faculty of the Child and Family Studies Program. Students will develop and implement learning environments and educational experiences for multi-ability and multi-age children and their families in home-based, center-based, and school programs. All students will attend weekly one-hour seminars. By the end of the teaching practicum, students will have completed all Education portfolio requirements. 3 Course Credits

EDS 479 Learning and Assessment

Prerequisite: EDS 485

Offered: Typically every Spring Term

This course will introduce students to applications of important learning and assessment theory in shaping practice. They will explore the theoretical underpinnings of behaviorist and constructivist traditions in designing assessment of student development; targeting objectives to appropriate levels of a taxonomy; designing, managing, and assessing classroom environments conducive to student learning; developing appropriate strategies for implementing instruction; and exploring assessment theory and applications of both formative and summative assessments. Students will critically evaluate the role and impact of high stakes assessments on learning and teaching and begin to explore methods of assessment of their own practice as well as the use of research methodology to evaluate innovations in practice and curriculum. Special attention is directed to helping students prepare performance evidence addressing the Education Studies Program Goals and Kentucky's Teacher Standards. This course is taken as part of the pre-professional block in the Teacher Education Program, which includes a partial-day field assignment in local schools.

1 Course Credit

EDS 480 Students with Special Needs-Secondary

Prerequisite: EDS 325

Offered: Typically every Spring Term

This course prepares prospective teachers to make the instructional and organizational modifications necessary so that students with vastly different academic, physical, emotional, and social needs can learn in the regular secondary-school classroom. The focus is 'on youngsters with a variety of special needs, such as physical and learning exceptionalities (including the gifted); bilingualism; lack of readiness for learning; and violent behaviors. Working with the students in the classrooms where they are completing their teaching practicum, prospective teachers will address the special classroom-management requirements and the special instructional needs arising with special-needs youngsters. Students also will explore related issues, including the need to develop skills in counseling and conflict resolution and understanding the nature of family involvement and the particular policies and procedures schools follow. This course is taken as part of the pre-professional block in the Teacher Education Program, which includes a partial-day practicum in local schools.

1 Course Credit

EDS 481 Student Teaching Seminar (P-12, 5-12, 8-12)

Prerequisite: Permission of instructor

Offered: Typically every Fall Term

Emphasis in this course is on the development of appropriate instructional units for the assigned Student Teaching settings. Students work with classroom teachers and College faculty to plan and develop activities and materials focused on the specific subject matter in which the student is seeking certification. Other topics include classroom-management techniques, evaluation and assessment of student learning, and motivational techniques. Student teachers are to reflect the values and commitments undergirding Berea's Teacher Education Program in their work and relationships with children, peers, parents, mentors, and other colleagues, and they are expected to meet Berea's program goals prior to completion of the Professional Term. They will be required to submit a satisfactory exit portfolio addressing the Kentucky Teacher Standards established by the Kentucky Education Professional Standards Board. Taken concurrently with EDS 482.

1 Course Credit

EDS 482 Student Teaching: P-12, 5-12, 8-12

Prerequisite: EDS 479

Offered: Typically every Fall Term'

This course involves observation, participation, teaching, and a wide variety of school-related activities under the guidance of supervising teachers and staff members of the Education Studies Program. Student

teachers will spend at least twelve (12) weeks, five (5) full days per week, in their assigned placement(s). Students will be expected to complete satisfactory entries for the Eligibility (exit) Portfolio required for initial teacher certification. Taken concurrently with EDS 481. 3 Course Credits

EDS 485 Content Teaching Methods Practicum III

Prerequisite: EDS 385

Offered: Typically offered every Fall Term.

This practicum is designed to build on experiences in Content Teaching Methods Practicum I emphasizing more advanced and in-depth content teaching specialization theory and practice. During this experience students will continue their apprentice within a Community of Teachers developing and extending the set of teaching skills that is vital for their successful eventual roles as middle and high school teachers. .25 Course Credit

EDS 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

EDS 487 Elementary Student Teaching

Prerequisite: EDS 440

Offered: Every Fall Term

The Elementary School Student Teaching component is the culminating experience for P-5 certification. Student teachers will spend at least twelve (12) weeks, five (5) full days per week, in their assigned placement(s). They will be involved in observing, developing curriculum, and teaching, as well as taking part in a wide variety of school-related activities under the joint guidance of cooperating teachers and faculty in the Education Studies Program. Student teachers are to reflect the values, commitments, and dispositions undergirding Berea's Teacher Education Program in their work and relationships with children, mentors, peers, and parents. They will be required to submit a satisfactory exit Portfolio addressing Berea's program goals and the Kentucky Teacher Standards prior to completion of Student Teaching. Taken concurrently with EDS 488. 3 Course Credits

EDS 488 Elementary Student Teaching Seminar

Prerequisite: Permission of instructor

Offered: Every Fall Term

The elementary Student Teaching seminar is a required component of the student teaching experience. The seminar will support, enhance, and enrich student teachers' professional growth and development by providing multiple opportunities to explore, discuss, and reflect upon their teaching experiences within a community of inquiry. The seminar will help student teachers to articulate and demonstrate the knowledge, understandings, skills, and dispositions necessary to meet Berea's program goals and the Kentucky Teacher Standards. A special emphasis of the seminar will be to support student teachers' development of the required Exit Portfolio. The seminar will meet two hours each week and will be supplemented by periodic individual conferences. Taken concurrently with EDS 487. 1 Course Credit

EDS 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

EDS 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

EDS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

EDS 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

EDS 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

ENGLISH

ENG 103 ESL and American Culture

Prerequisite: Permission of instructor

Offered: Typically every Fall Term

Extensive practice in the four communication skills: reading, writing, listening, and speaking (including pronunciation), with a focus on American culture. Grammatical structures will be reviewed as needed. Introduction to idiomatic expressions and extensive vocabulary. Meets four days a week with an additional tutorial or language lab session.

1 Course Credit

ENG 104 Advanced ESL

Prerequisite: ENG 103 or permission of instructor

Offered: Typically every Spring Term

Reading and discussions in American literature and history, with continued attention to grammar, vocabulary, and academic writing. Meets four days a week with an additional tutorial or language lab session.

1 Course Credit

ENG 110 Introduction to Literature in English

Offered: Typically Fall and Spring terms

An introduction to the study of literature in English. Develops students' skills in critical-reading strategies, analytical writing, disciplinary research methods, and the examination and use of various types of sources. This course also introduces the Portfolio required of all English majors and should be taken by the end of the sophomore year, but the first year is preferred.

1 Course Credit

ENG 124 Introduction to Creative Writing

Offered: Typically Fall and Spring terms

An introduction to the forms of creative writing (fiction, nonfiction, poetry, and drama), combining the careful reading of established works and original student writing. Conducted as a workshop, with frequent writing exercises and student and instructor criticism of works. Arts Perspective.

1 Course Credit

ENG 135 African-American Women Writers (AFR/WGS)

Offered: Typically alternate years (next offered 2014-2015)

How have African-American women writers coped with invisibility? How have they emerged from silence and created visions of identity and culture? This course will examine the writings of African-American women as a separate and distinct cultural group and the ways in which their writing is an

expression of the culture and a historical record of its development. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

ENG 140 Appalachian Literature (APS)

Offered: Typically annually (next offered Spring 2013)

Study of poetry, fiction, and oral literature of the region. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

ENG 141 African-American Literature (AFR)

Offered: Typically alternate years (offered Fall 2012)

Representative selections from fiction, poetry, and nonfiction prose of African-American authors from slavery to the present. Focus on historical and social conditions reflected in the works and relationships between African-American literature and other American literary movements. African Americans', Appalachians', and Women's Perspective and Arts Perspective. 1 Course Credit

ENG 200 Studies in Times

Offered: Typically alternate years (offered Fall 2012)

This course introduces students to the literature of a specific time frame, which may or may not be chronological. The focus is generally on canonical works, as well as an introduction to criticism. May be repeated for credit, provided the topic differs from those previously studied. Arts Perspective.

1 Course Credit

ENG 201 Essay Writing

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically annually (next offered 2013-2014)

An intermediate college writing course that includes persuasive, analytical, and argumentative writing styles. Reading of a variety of essays as models for form and style. Intensive use of writing process, including invention, drafting, reviewing, and revising. Practice in recognizing and making appropriate use of discourse conventions. 1 Course Credit

ENG 205 Studies in Cultures

Offered: Typically alternate years (next offered Spring 2013)

This course will introduce students to a traditionally under-represented literature. It is intended to help students develop an understanding and appreciation of diversity through the study of the literature of women, ethnic/regional groups, or national literature in translation. May be repeated for credit, provided the topic differs from those previously studied. 1 Course Credit

ENG 210 Studies in Authors

Offered: Typically alternate years (offered Fall 2012)

This course will introduce students to the study of a single author or group of authors, generally (but not exclusively) canonical writers. Emphasis is on close readings of texts and writing analytical and response papers to primary works by particular authors. May be repeated for credit, provided the topic differs from those previously studied. 1 Course Credit

ENG 212 Literature of Caribbean Women (AFR/WGS)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered 2013-2014)

This course is an exploration of voices of women in the Caribbean. Students will read works by writers from the Anglo-Caribbean, French Caribbean, and Hispanic Caribbean. These writers represent the islands of Jamaica, Cuba, Guadalupe, Haiti, the Dominican Republic, and Barbados. Their works investigate issues of racial configuration, relationships between women, politics, colonialism, and post-colonialism, and the creation of the island space. We will look at the long, turbulent history of the island of Hispaniola from the perspective of both the Haitian and Dominican, the complex history of each of these island nations, and other important topics. African Americans', Appalachians', and Women's Perspective and World Culture (Non-Western) component of the International Perspective.

1 Course Credit

ENG 220 Studies in Film

Offered: Typically alternate years (offered Fall 2012)

This course emphasizes the understanding of film vocabulary and critical terminology that may be new to students. Assignments may include short essays (for example, viewer response and film analysis), annotated bibliographies, descriptions and assessments of Internet sites, and oral reports involving acquisition and presentation of information relevant to course subject matter. May be repeated for credit, provided the topic differs from those previously studied. 1 Course Credit

ENG 223 Grammar for Teachers

Prerequisite: Sophomore standing or above OR permission of instructor

Offered: Typically alternate years (next offered 2013-2014)

This course is a study of modern English grammar and usage appropriate to teaching English and language arts. The emphasis will be on traditional and structural grammar, with an introduction to transformational grammar. Additional focus will be on levels of usage, standard and nonstandard English, and dialects. 1 Course Credit

ENG 225 Studies in Genre

Offered: Typically alternate years (next offered Spring 2013)

This course will introduce students to literature based on types of texts within the broad categories of fiction, non-fiction prose, poetry, and drama. Emphasis will be on close readings of texts and writing analytical and response papers on primary works. Introduction to research in literary studies. May be repeated for credit, provided the topic differs from those previously studied. 1 Course Credit

ENG 237 Women and Literature (WGS)

Prerequisite: Sophomore standing or above

Offered: Typically alternate years (next offered Spring 2013)

. Selected literature by women, focusing on works written in English. Emphasis on historical background and ethnic and cultural influences. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

ENG 242 Introduction to Non-Western Literature

Prerequisite: Sophomore standing or above

Offered: Typically alternate years (next offered 2013-14)

Selected works of fiction by significant 20th-century authors of Asia, Latin America, and/or Africa. Emphasis on literary elements and relationships between these works, with attention to cultural influences. Meets a "Cultures" Literature Category requirement. World Culture (Non-Western) component of the International Perspective. 1 Course Credit

ENG 280 Workshop in Professional Writing

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically alternate years (offered Fall 2012)

A course that allows students to explore and practice research and writing skills in topics such as journalism, business writing, technical writing, science writing, or legal writing. Taught as a workshop, with student and instructor criticism of work. May be repeated for credit, provided the topic differs from those previously studied. NOTE: Some sections may be approved to meet Practical Reasoning and other General Education requirements. Check *Schedule of Classes* for specific offerings. ENG 280A and 280L receive Practical Reasoning (PR) credit. 1 Course Credit

ENG 282 Workshop in Creative Writing

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically alternate years (offered Fall 2012)

An imaginative writing course that introduces students to one or two genres of creative writing through analysis of literary models, practice, and both student and instructor critique of work in a workshop format. The focus of the course will vary and may include such topics as travel writing, short fiction and drama, nature writing, memoir, and personal essay. May be repeated for credit, provided the topic differs from those previously studied. Arts Perspective. 1 Course Credit

ENG 284 Workshop in Composition/Rhetoric (COM)

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically alternate years (next offered 2013-2014)

A course that allows students to further explore and practice writing skills in topics such as written argumentation, prose style, and research writing. Conducted as a workshop, with student and instructor criticism of work. May be repeated for credit, provided the topic differs from those previously studied.

1 Course Credit

ENG 300 Seminar in Times

Prerequisite: ENG 110 or 124

Offered: Typically alternate years (offered Fall 2012)

This course engages the literature of a specific time frame, which may or may not be chronological, through the study of both primary literary texts and secondary critical material. Student research will involve working with critical theory. May be repeated for credit, provided the topic differs from those previously studied.

1 Course Credit

ENG/WGS 302 Introduction to Queer Theory

Prerequisite: WGS 124 or ENG 110 or permission.

Offered: Typically offered alternate years (next offered Spring 2013)

An introduction to the discipline of Queer Theory. This course examines Western constructions of gender and sexuality, focusing on traditional discourses surrounding Lesbian/Gay/Bisexual/Transsexual/Queer (LGBTQ) and Heterosexual identities. The lens of Queer Theory provides a framework for exploring issues related to sexuality, including but not limited to: essentialism, marginalization, heterosexism, and homophobia. The course also takes a brief look at LGBTQ history, focusing primarily on the LGBTQ liberation movement.

1 Course Credit

ENG 305 Seminar in Cultures

Prerequisite: ENG 110 or ENG 124

Offered: Typically as student interest and faculty availability allow (next offered Spring 2013)

This course is an in-depth study of literature written by women or ethnic/regional groups or national literature in translation. Through the study of primary literary texts and secondary materials, students will explore the impact of culture on subject matter, themes, and style. May be repeated for credit, provided the topic differs from those previously studied.

1 Course Credit

ENG 310 Seminar in Authors

Prerequisite: ENG 110 or 124

Offered: Typically alternate years (offered Fall 2012)

This course is an in-depth study of a particular author or group of authors, and includes exploration of primary texts and secondary material, especially literary criticism. May be repeated for credit, provided the topic differs from those previously studied.

1 Course Credit

ENG 320 Seminar in Film

Prerequisite: ENG 110 or ENG 124

Offered: Typically alternate years (offered Fall 2012)

The Seminar in Film course is distinguished from ENG 220 by more demanding levels of reading, thinking, and research. The course includes more focused film analysis, as well as larger and more complex research projects (for example, a full-scale research paper). Students will be expected to become

conversant with critical terms and theory, and to put that knowledge into practice in analyses of their own. May be repeated for credit, provided the topic differs from those previously studied. 1 Course Credit

ENG 325 Seminar in Genre

Prerequisite: ENG 110 or ENG 124

Offered: Typically alternate years (next offered Spring 2013)

This course engages in thematic and topical issues of genre at a considerable level of complexity by introducing contemporary literary modes of thinking and analytic methodologies. The course involves substantial student-directed research, which requires students to read and understand secondary literary scholarship as well as develop their awareness of primary literatures. May be repeated for credit, provided the topic differs from those previously studied. 1 Course Credit

ENG 330 Seminar in Language

Prerequisite: GSTR 210

Offered: Typically alternate years (first offered Spring 2013)

This course is an in-depth study of the English language. Topics might include (but are not limited to): History of the English Language; Old English; the dialects Of Middle English; historical linguistics; sociolinguistics; modern dialect study; Indo-European roots. May be repeated for credit, provided the topic differs from those previously studied. 1 Course Credit

ENG 380 Advanced Professional Writing

Prerequisite: ENG 110 or 124, ENG 280, or perm. of instructor

Offered: Typically alternate years (next offered Spring 2013)

An in-depth course that provides advanced study and practice of a specific field of professional writing, such as grant writing, advanced journalism, advanced technical writing, or writing in new media. Students will research and develop major projects, and the course may be offered as a Service-Learning course when appropriate. May be repeated for credit, provided the topic differs from those previously studied. 1 Course Credit

ENG 382 Advanced Creative Writing

Prerequisites: ENG 124 or 282 Or permission of instructor

Offered: Typically annually (offered Fall 2012)

An imaginative writing course that provides an in-depth study and practice of a genre or subgenre of creative writing, including poetry (P), fiction (F), creative non-fiction (N), and playwriting/drama (D). Students will develop a portfolio of writing demonstrating their breadth and depth of writing in the genre. May be repeated for credit, but an individual focus (P, F, N, or D) taken as ENG 382 (formerly ENG 203/303) cannot be repeated for credit. 1 Course Credit

ENG 384 Advanced Composition/Rhetoric

Prerequisites: ENG 110, ENG 281, OR permission of instructor

Offered: Typically as student interest and faculty interest allow

An in-depth course that provides advanced study and practice in composition and rhetoric topics such as literacy studies, composing process studies, rhetorical theory, and advanced expository writing/advanced composition. Students will research and develop major projects, as appropriate. May be repeated for credit, provided the topic differs from those previously studied. 1 Course Credit

ENG 387 The Study of Language

Prerequisite: Sophomore standing or above

Offered: Typically alternate years (next offered 2013-14)

Theories on the origins and nature of language; language families; development of the English language; phonology and morphology; methods of grammatical analysis; social and regional usage; and recent theoretical developments in language study. NOTE: Noncredit for students who completed ENG 287. 1 Course Credit

ENG 485 Seminar in English

Prerequisites: Senior standing only & permission of the Program Coordinator

Offered: Typically annually (offered Fall 2012)

This course involves intensive reading, analysis, and discussion of a concentrated topic in English Studies. Attention is paid to critical theory and its application. Students will produce a major research, writing, or creative project, and a presentation.

1 Course Credit

ENG 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog for general description.

1/2 or 1 Course Credit

ENG 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog for general description.

1 Course Credit

ENG 395/495 Internship

Prerequisite: Sophomore, junior or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog for general description.

1 to 3 Course Credits

ENG 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog for general description.

1 Course Credit

ENG 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog for general description.

1 Course Credit

Latin

LAT 101 Introduction to Latin I

Offered: Typically every Fall Term

The fundamentals of Latin, with readings of simple prose. Introduction to Roman culture.

1 Course Credit

LAT 102 Introduction to Latin II

Prerequisite: LAT 101 with a grade of C or higher, or permission of instructor

Offered: Typically every Spring Term

Continued study in the fundamentals with readings and explorations in Roman culture.

1 Course Credit

LAT 103 Literature and Civilization

Prerequisite: LAT 102 with a grade of C or higher, or permission of instructor

Offered: Typically as student interest and faculty availability allow

Advanced study in language and Roman culture as seen through selected writings of the Golden Age.

1 Course Credit

LAT 117 Classical Etymology

Offered: Typically alternate Fall Terms

A study of the Latin and Greek elements in the English language and the origins and histories of English words, for the purpose of building a larger English vocabulary of common and technical terms in the humanities and the social and natural sciences, and enhancing one's ability to read literature with understanding and pleasure. No knowledge of Greek or Latin is necessary. World Culture (Western) component of the International Perspective. 1 Course Credit

LAT 210 Classical Roman Civilization (HIS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate Spring Terms

History of Rome from its foundations to 476 A.D., with emphasis on political, social, economic, and religious forces. Arts Perspective and Western History Perspective. 1 Course Credit

LAT 215 Classical Mythology

Offered: Typically every Spring Term (offered Spring 2013)

A study of the myths and legends of the gods and heroes of the Greeks and Romans, through a reading of ancient texts in translation. An exploration of the influence of classical mythology on Western literature, drama, art, music, and film. No knowledge of Greek or Latin is necessary. Arts Perspective and Religion Perspective. 1 Course Credit

LAT 223 Virgil

Prerequisite: LAT 103 or permission of instructor

Offered: Typically as student interest and faculty availability allow.

A study of Virgil's art, with selections from his writings. Arts Perspective. 1 Course Credit

LAT 321 Latin Historians

Prerequisite: LAT 103 or permission of instructor

Offered: Typically as student interest and faculty availability allow.

Selections from the writings of Caesar, Livy, and Tacitus; the art of historical writing in antiquity. Arts Perspective. 1 Course Credit

LAT 322 Cicero

Prerequisite: LAT 103 or permission of instructor

Offered: Typically as student interest and faculty availability allow.

Selected orations, letters, and essays. 1 Course Credit

LAT 324 Classical Poetry

Prerequisite: LAT 103 or permission of instructor

Offered: Typically as student interest and faculty availability allow.

Selections of verse from the lyric and elegiac poets. Arts Perspective. 1 Course Credit

LAT 325 Medieval Latin

Prerequisite: LAT 103 or permission of instructor

Offered: Typically as student interest and faculty availability allow.

Selections of prose and poetry from the fourth century A.D. to the close of the Middle Ages. 1 Course Credit

LAT 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow.

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

LAT 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

LAT 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

LAT 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

LAT 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Greek

GRK 201 Introduction to Greek I

Offered: Typically as student interest and faculty availability allow (not currently offered)

The fundamentals of Attic and Koine (Biblical) Greek, with readings of simple prose. Not open to first-year students.

1 Course Credit

GRK 202 Introduction to Greek II

Prerequisite: GRK 201 with a grade of C or higher, or permission of instructor

Offered: Typically as student interest and faculty availability allow (not currently offered)

Advanced study in the fundamentals with selected readings.

1 Course Credit

GRK 203 Greek Literature

Prerequisite: GRK 202 with a grade of C or higher OR permission of instructor

Offered: Typically as student interest and faculty availability allow (not currently offered)

Selections from classical literature and from the New Testament.

1 Course Credit

GRK 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

GRK 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

GRK 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

GRK 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

GRK 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor
Offered: Typically on a limited basis as student interest and faculty availability allow
See Academic Programs and Courses in this Catalog & Student Handbook for general description.
1 Course Credit

Classical Hebrew

HEB 101 Introduction to Classical Hebrew

Offered: Typically as student interest and faculty availability allow

This course will introduce the student to the phonology and morphology of the regular noun and verb, and the elements of syntax in Classical Hebrew. The course will consist of exercises and readings in basic Hebrew, with some simple Biblical narrative texts.

1 Course Credit

HEB 102 Intermediate Classical Hebrew

Prerequisite: HEB 101

Offered: Typically as student interest and faculty availability allow

This course will build upon the fundamental grammar covered in HEB 101 and will devote a significant amount of time to the readings and analysis of texts from the Hebrew Bible.

1 Course Credit

HEB 103 Readings in Biblia Hebraica

Prerequisite: HEB 102

Offered: Typically as student interest and faculty availability allow (offered Fall 2012)

The course will complete the introductory phonology, morphology, and syntax of Classical Hebrew and will devote a significant amount of time to the reading and analysis of texts from the Hebrew Bible.

1 Course Credit

HEB 210 Hebrew Exegesis

Prerequisite: HEB 103

Offered: Typically as student interest and faculty availability allow (on an individual-study basis)

Advanced applications of Hebrew grammar and syntax to the study of selected texts, primarily narratives, with an introduction to Hebrew poetry.

1 Course Credit

Chinese

CHI 101 Introduction to Chinese I

Offered: Typically as student interest and faculty availability allow (offered Fall 2012)

Introduction to Chinese as it is spoken in China today. Speaking and listening comprehension will be emphasized and the Chinese written language introduced.

1 Course Credit

CHI 102 Introduction to Chinese II

Prerequisite: CHI 101 with a grade of C or higher, or permission of instructor

Offered: Typically as student interest and faculty availability allow (offered Spring 2013)

Continued emphasis on Chinese oral/aural and written communication skills.

1 Course Credit

CHI 103 Intermediate Chinese III

Prerequisite: CHI 102 with a grade of C or higher, or permission of instructor

Offered: Typically as student interest and faculty availability allow (not currently being offered)

Beginning of the two-term intermediate level of Chinese language instruction. Continued development of Chinese oral/aural and written communication skills.

1 Course Credit

CHI 104 Intermediate Chinese IV

Prerequisite: CHI 103 with a grade of C or higher, or permission of instructor

Offered: Typically as student interest and faculty availability allow (not currently being offered)
Completion of the two-term intermediate level of Chinese language instruction. Continued practice of oral/aural and written communication, fully integrated with culture. 1 Course Credit

Japanese

JPN 101 Introduction to Japanese I (AST)

Prerequisite: Permission of instructor

Offered: Typically every Fall Term

Introduction to Japanese as it is spoken in Japan today. Speaking and listening comprehension will be emphasized. 1 Course Credit

JPN 102 Introduction to Japanese II (AST)

Prerequisite: JPNIAS 101 with a grade of C or higher or permission of instructor

Offered: Typically every Spring Term

Continued emphasis on Japanese oral/aural communication skills and an introduction to the Japanese written language: 1 Course Credit

JPN 103 Introduction to Japanese III (AST)

Prerequisite: JPNIAS 102 with a grade of C or higher or permission of instructor

Offered: Typically every Fall Term

Continued development of Japanese speaking, listening, reading, and writing skills. 1 Course Credit

JPN 104 Introduction to Japanese IV (AST)

Prerequisite: JPNIAS 103 with a grade of C or higher or permission of instructor

Offered: Typically every Spring term

Completion of the two-term intermediate level of Japanese language instruction; continued practice of reading, writing, listening, and speaking, fully integrated with culture. 1 Course Credit

French

FRN 101 Intro. to French Language and Culture I

Offered: Typically every Fall Term

Basic French emphasizing all four language skills (listening, speaking, reading, and writing) fully integrated with culture. 1 Course Credit

FRN 102 Intro. to French Language and Culture II

Prerequisite: FRN 101 with a grade of C or higher, or permission of instructor

Offered: Typically every Spring Term

Continuation of basic French as begun in FRN 101. 1 Course Credit

FRN 103 Intermediate French III

Prerequisite: FRN 102 with a grade of C or higher, or permission of instructor

Offered: Typically every Fall Term

Continued development of French language skills fully integrated with culture. 1 Course Credit

FRN 140 French Civilization Past and Present

Offered: Typically alternate years, usually in the Fall

History of France from Gaul to the present day; introduction to contemporary French institutions (e.g., schools, cuisine); and everyday life. Western History Perspective. NOTE: Taught in English.

- 1 Course Credit
- FRN 300 Intermediate French IV**
Prerequisite: FRN 103 with a grade of C or higher, or permission of instructor
Offered: Typically alternate years, usually in the Spring
 Completion of the four-term foundation in French language and culture; increased attention to self-expression and francophone cultures. 1 Course Credit
- FRN 310 Grammar and Composition**
Prerequisite: FRN 103 with a grade of C or higher, or permission of instructor
Offered: Typically alternate years
 Advanced grammar exercises, translation reading, and composition. 1 Course Credit
- FRN 315 Advanced French Language Seminar**
Prerequisite: FRN 310 with a grade of C or higher, or permission of instructor
Offered: Typically as student interest and faculty availability allow
 Introduction to versification, *explication de texte*, basic comparative stylistics, and other techniques used in the advanced study of French. 1 Course Credit
- FRN 320 Panorama of French Literature I**
Prerequisite: FRN 310 with a grade of C or higher, or permission of instructor
Offered: Typically as student interest and faculty availability allow (offered Spring 2013)
 A survey of French literature from the Middle Ages to 1715. Arts Perspective. 1 Course Credit
- FRN 321 Panorama of French Literature II**
Prerequisite: FRN 320 with a grade of C or higher, or permission of instructor
Offered: Typically as student interest and faculty availability allow
 A survey of French literature from 1715 to the 20th century. Arts Perspective. 1 Course Credit
- FRN 325 Seventeenth-Century French Literature**
Prerequisite: FRN 320 with a grade of C or higher, or permission of instructor
Offered: Typically as student interest and faculty availability allow
 Classicism; selected works including those of Corneille, Racine, and Moliere. Arts Perspective. 1 Course Credit
- FRN 330 Nineteenth-Century French Literature**
Prerequisite: FRN 321 with a grade of C or higher, or permission of instructor
Offered: Typically as student interest and faculty availability allow
 Selected prose and poetry. Arts Perspective. 1 Course Credit
- FRN 340 Twentieth-Century French Literature**
Prerequisite: FRN 321 with a grade of C or higher, or permission of instructor
Offered: Typically as student interest and faculty availability allow
 Selected prose and poetry. Arts Perspective. 1 Course Credit
- FRN 186/286/386/486 Special Topics**
Prerequisites: Determined by instructor
Offered: Typically as student interest and faculty availability allow
See Academic Programs and Courses in this Catalog & Student Handbook for general description. 1/2 or 1 Course Credit
- FRN 390/490A or B Independent Study**
Prerequisite: Sophomore or junior standing for 390; senior standing for 490
Offered: Typically as student interest and faculty availability allow
See Academic Programs and Courses in this Catalog & Student Handbook/or general description. 1 Course Credit

FRN 395/495 Internship

Prerequisite: Sophomore, junior Or senior standing

Offered: Typically every term See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

FRN 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing/or 397; senior standing Jar 497

Offered: Typically as student interest and faculty availability allow.

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

FRN 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook/or general description.

1 Course Credit

German

GER 101 Introduction to German I

Offered: Typically every Fall Term

Introduction to spoken German; fundamentals of grammar and pronunciation; and basic vocabulary building. Includes a self-paced language laboratory.

1 Course Credit

GER 102 Introduction to German II

Prerequisite: GER 101 with a grade of C or higher, or permission of instructor

Offered: Typically every Spring Term

Continued emphasis on spoken German, fundamentals of grammar, pronunciation, and vocabulary building. Readings in light German prose. Includes a self-paced language laboratory.

1 Course Credit

GER 103 Intermediate German III

Prerequisite: GER 102 with a grade of C or higher, or permission of instructor

Offered: Typically every Fall Term

Extensive practice in diction, simple composition, and vocabulary building. Readings in German prose. Includes a self-paced language laboratory.

1 Course Credit

GER 140 German Civilization

Offered: Typically as student interest and faculty availability allow (offered Spring 2013)

A survey of the development of German civilization from its origins to the present with emphasis on German culture. Western History Perspective and World Culture (Western) Component of the International Perspective. NOTE: Taught in English.

1 Course Credit

GER 300 German Conversation

Prerequisite: GER 103 with a grade of C or higher, or permission of instructor

Offered: Typically 4S student interest and faculty availability allow

The course is intended to help students develop reasonable proficiency in conversational skills and to assist in the development of a greater command of the German language as a tool for communication.

1 Course Credit

GER 310 Advanced German I

Prerequisite: GER 103 with a grade of C or higher, or permission of instructor

Offered: Typically as student interest and faculty availability allow

Readings and discussions in German civilization; introduction to modern German literature.

1 Course Credit

GER 315 Advanced German II

Prerequisite: GER 103 with a grade of C or higher, or permission of instructor

Offered: Typically as student interest and faculty availability allow

Comprehensive practice of spoken and written German; introduction to contemporary German literature, and scientific German.

1 Course Credit

GER 320 German Poetry

Prerequisite: GER 310 and 315, or permission of instructor

Offered: Typically as student interest and faculty availability allow

A study of forms of German verse and its development from the 17th century to the present.

Interpretations of selected poems. Arts Perspective.

1 Course Credit

GER 325 German Narrative Prose

Prerequisite: GER 310 and 315, or permission of instructor

Offered: Typically as student interest and faculty availability allow

A study of selected narrative prose (novel, short story) from its origin to the present. Arts Perspective.

1 Course Credit

GER 330 German Drama

Prerequisite: GER 310 and 315, or permission of instructor

Offered: Typically as student interest and faculty availability allow

A general survey of German drama from its beginnings to the present. Readings of selected plays. Arts Perspective.

1 Course Credit

GER 340 German Novel

Prerequisite: .GER 310 and 315, or permission of instructor

Offered: Typically as student interest and faculty availability allow

A study of the origin and development of the German novel. Selected readings. Arts Perspective.

1 Course Credit

GER 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

GER 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

GER 395/495 Internship

Prerequisite: Sophomore, junior Or senior standing

Offered: Typically every term See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

GER 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing/or 397; senior standing Jar 497

Offered: Typically as student interest and faculty availability allow.

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

GER 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook/or general description.

1 Course Credit

Spanish

SPN 101 Introduction to Spanish I

Prerequisite: Permission of Program

Offered: Typically Fall and Spring terms

Fundamentals of the Spanish language; development of reading, writing, and conversational skills.

1 Course Credit

SPN 102 Introduction to Spanish II

Prerequisite: SPN 101 with a grade of C or higher OR permission of instructor

Offered: Typically Fall and Spring terms .

A continuation of Spanish 101 with increasing emphasis on conversational skills.

1 Course Credit

SPN 103 Introduction to Spanish III

Prerequisite: SPN 102 with a grade of C or higher OR permission of instructor

Offered: Typically Fall and Spring terms

Completion of Spanish grammar. Increased emphasis on writing and conversational skills.

1 Course Credit

SPN 140 History of Spain (HIS)

Offered: Typically as student interest and faculty availability allow (offered Fall 2012)

A broad survey from pre-history to present as viewed through Spain's culture, art, literature, and customs.

World Culture (Western) Component of the International Perspective and Western History

Perspective. NOTE: The course is taught in English.

1 Course Credit

SPN 300 Conversation

Prerequisite: SPN 103 with a grade of C or higher OR permission of instructor

Offered: Typically as student interest and faculty availability allow (offered Fall 2012)

The main objective of this course is to develop fluency in speaking everyday Spanish. May not be taken for credit by a native speaker.

1 Course Credit

SPN 310 Spanish Composition

Prerequisite: SPN 103 with a grade of C or higher OR permission of instructor

Offered: Typically Fall and Spring terms (offered Fall 2012)

A course intended to help students acquire a greater mastery of Spanish as a tool for communication through an examination of the more complex grammatical and syntactical structures; through learning idioms and vocabulary; and through writing and analyzing essays. May not be taken by native speakers without consent of instructor.

1 Course Credit

SPN 315 Introduction to Spanish Literature

Prerequisite: SPN 310 with a grade of C or higher OR permission of instructor

Offered: Typically every Spring Term (offered Spring 2013)

A course designed to improve reading skills, both practical and critical, and to introduce the student to the tools necessary for literary analysis. Selections from masterpieces of Spanish and Spanish-American literature will serve as the basis for discussion. Arts Perspective.

1 Course Credit

SPN 320 Peninsular Literature I

Prerequisites: SPN 310 and 315 with a grade of C or higher in each; OR permission of instructor

Offered: Typically alternate Spring Terms (next offered Spring 2014, alternating with SPN 321)

A survey of Spanish literature from the medieval period through the 17th century. Emphasis on major authors. Arts Perspective.

1 Course Credit

SPN 321 Peninsular Literature II

Prerequisites: SPN 310 and 315 with a grade of C or higher in each; OR permission of instructor

Offered: Typically alternate Spring Terms (offered Spring 2013, alternating with SPN 320)

A survey of Spanish literature from the beginning of the 18th century to the present. Emphasis on major authors. Arts Perspective. 1 Course Credit

SPN 330 Spanish American Literature I

Prerequisites: SPN 310 and 315 with a grade of C or higher in each; OR permission of instructor

Offered: Typically alternate Fall Terms (offered Fall 2012, alternating with SPN 331)

A survey of Spanish-American literature from its origins in the 16th century to modernism in the 19th century. Arts Perspective. 1 Course Credit

SPN 331 Spanish American Literature II

Prerequisites: SPN 310 and 315 with a grade of C or higher in each; OR permission of instructor

Offered: Typically alternate Fall Terms (next offered Fall 2013) alternating with SPN 330)

A survey of Spanish-American literature from modernism to the present. Emphasis on major authors. Arts Perspective. 1 Course Credit

SPN 340 The Novel

Prerequisites: SPN 300,310, and 315 with a grade of C or higher in each; OR permission of instructor

Offered: Typically as student interest and faculty availability allow

A reading of selected novels by major Spanish and Spanish-American writers. Arts Perspective.

1 Course Credit

SPN 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

SPN 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

SPN 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

SPN 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

SPN 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

General Studies Required

GSTR 110 Writing Seminar I: Critical Thinking in the Liberal Arts

Offered: Typically Fall and Spring terms

This course is designed to help students with transitions from their past experiences to the challenges of College academic life and culture, also emphasizing writing, reasoning, and learning as foundations for continuing academic success in General Education and beyond. Each section of the course involves explicit, continuing attention to writing, reasoning, research, and reflective engagement with various texts, written and non-written. All sections initially address with students questions about the nature of education, liberal-arts education, and links to lifelong learning and living. Offered in multiple sections each year; taken in one's first regular term. NOTE: Effective Fall 2010, transfer students who meet certain criteria may waive this requirement. See General Education Program for details.

1 Course Credit

GSTR 210 Writing Seminar II: Identity and Diversity in the U.S.

Prerequisite: GSTR 110 (or waiver)

Offered: Typically Fall and Spring Terms

This course is designed to develop and build upon the reasoning, writing, research, and learning emphases of GSTR 110, while engaging all students on issues close to the historic mission of the College—race, gender, Appalachia, and class. Initially, each section explores the story of Berea, including as it relates to the unifying themes of GSTR 210. Each section of the course involves explicit, continuing attention to writing, reasoning, research, and reflective engagement with various texts, including instruction in the processes of producing a research paper. Taken in one's second regular term.

1 Course Credit

GSTR 310 Understandings of Christianity

Prerequisites: GSTR 210 and sophomore standing

Offered: Typically Fall and Spring terms

This course invites students to imagine and consider Christianity from stances both inside and outside the faith, from the vantage of various disciplines, as an instance of the general phenomenon of religion, and as a way of understanding life's purpose and meaning that remains important for many around the world. The course considers Christianity from historical, theological, and contemporary perspectives. Each section applies and builds on the reasoning, research, and writing emphases of GSTR 110 and 210.

1 Course Credit

GSTR 332 Scientific Knowledge and Inquiry

Prerequisites: Practical Reasoning with Quantitative Emphasis (PRQ) and sophomore standing

Offered: Typically Fall and Spring terms

This course invites students to explore a variety of scientific disciplines in order to understand what science is, does, and tells us about the natural world around us. Employing an integrative approach to the natural sciences, the course emphasizes the historical development of laws, models, and theories, as well as basic scientific literacy important to contemporary concerns. Each section of the course includes « inquiry-based learning (laboratory) experiences. NOTE: See the "General Education Program" section of this publication for an alternate way to meet this requirement by taking two approved courses, at least one of which must be a laboratory course.

1 Course Credit

GSTR 410 Seminar in Contemporary Global Issues

Prerequisites: PEH 100: Wellness, Practical Reasoning, GSTR 310, GSTR 332, International

Perspective, 2 of the 5 remaining General Education Perspectives

Offered: Typically Fall and Spring terms

As a capstone experience for General Education, this course invites students to synthesize and integrate their learning by using their developing abilities to reason, research, and communicate to investigate aspects of a significant issue for the world today. Each section explores a topic determined by the instructors, and is structured to model broadly multi-disciplinary approaches needed to understand complex problems. Each section involves students' working closely with faculty to complete a substantive research project, which may take a variety of forms (e.g., essay, documentary, musical composition, performance, etc.) *NOTE: Students in the Applied Science and Mathematics major's 3-2 Engineering Program should take this course before transferring to engineering school.

General Studies

GST 101 Strategies for Academic Success

Offered: Typically Fall and Spring terms

A course designed to provide students with the necessary academic skills to achieve success in their academic career. Course requirements will be determined by the course coordinator. 1/4 Course Credit

GST 150 College Composition

Offered: Typically Fall and Spring terms

This course is an intensive study and practice of forms, conventions, and processes of academic discourse, with particular attention to critical thinking; analytic and argumentative writing; research and source use; and effective language use. This course is designed for students who need more focused instruction in writing in order to meet the expectation of academic assignments. 1 Course Credit

GST 235 Introduction to Behavioral Sciences

Prerequisite: GSTR 110 (or waiver)

Offered: Typically every Spring Term

An introduction to the application of the scientific method to the realm of human behavior at all levels. Students will learn about general frameworks for understanding and examining the distinctive approaches of the disciplines of psychology, sociology, and anthropology. The course will emphasize active inquiry and help students to become familiar with the methods characteristic of each of these particular disciplines. Social Science Perspective and Practical Reasoning (PR). 1 Course Credit

GST 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

GST 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

GST 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

GST 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

GST 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

History

HIS 101 Western Civilization I

Offered: Typically every Fall Term

An introduction to the ideas and events that shaped the Western world from its beginnings in the ancient Near East to the 15th century. The course emphasizes the study and interpretation of primary documents, viewed within an historical context. Western History Perspective. NOTES: Strongly recommended for the first or sophomore year. 1 Course Credit

HIS 102: Western Civilization II: A Study in Gender (WGS)

Offered: Typically every Spring Term.

An examination of the experiences of women and men to determine how gender roles have contributed to and been shaped by the religious, political and social history of "the West." This course is arranged topically and chronologically from the Renaissance through the success of the parity movement in France at the beginning of the 21st century. Topics to be considered include: religious reform; scientific understandings of the body; national revolutions; industrialization and the sexual division of labor; widening political opportunities; socialism; feminism; empire-building, and warfare. Western History Perspective and African Americans', Appalachians', and Women's Perspective. 1 Course Credit

HIS U2 History of China (AST)

Offered: Typically every Fall Term

China has one of the foundational civilizations in human history. It gave rise to social structures, political systems, and philosophies that deeply influenced the development of East Asia. Through close reading of documents, focused analytical writing, open discussion, and lecture, students will develop their own understanding of the evolution of China from its Neolithic origins to its present status as a world power. World Culture (Non-Western) component of the International Perspective. 1 Course Credit

HIS U3 History of Japan (CAST)

Offered: Typically every Spring Term

Japan has developed from an isolated chain of islands at the edge of East Asia into a modern economic giant. Through close reading of documents, focused analytical writing, open discussion, and lecture, we will examine the complexity of the culture that gave rise to Zen Buddhism, the samurai, and Japan's current position as one of the world's most powerful economies. World Culture (Non-Western) component of the International Perspective. 1 Course Credit

HIS 130: Albion and Eire: The British Isles to 1688

Prerequisite: None

Offered: Typically alternate Spring Terms (next offered Spring 2014)

A survey of the history of the British Isles (with some emphasis upon England) from prehistory to AD 1688. The focus is general, with attention to political, social and economic, religious and cultural developments of the four communities within the British Isles (England, Wales, Scotland, and Ireland) and in context of their relationships to other communities. Non-credit for students who have completed HIS 219. Western History Perspective 1 Course Credit

HIS 131: Britain and the Empire, 1688 to Present

Prerequisite: None

Offered: Typically alternate Spring Terms (next offered Spring 2014)

A selective survey of the history of Britain and the British Empire from the Glorious Revolution to the present. Emphasis will be put on how the development of Britain is inseparable from the development of the British Empire. Non-credit for students who have completed HIS 286: From Spice Islands to Spice Girls. World Culture (Western) Component of the International Perspective and Western History

Perspective.

1 Course Credit

HIS 140 History of Spain (SPN)

Offered: Typically as student interest and faculty availability allow

A broad survey from pre-history to present as viewed through Spain's culture, art, literature, and customs. World Culture (Western) Component of the International Perspective and Western History Perspective.

NOTE: This course is taught in English.

1 Course Credit

HIS 161 American History to 1865

Offered: Typically every Fall Term

A survey of American history from its beginnings through the War Between the States, with emphasis on political, social, cultural, economics, and military trends, and on the ways in which unified American civilization is created from diverse elements. Western History Perspective.

1 Course Credit

HIS 162 American History since 1865

Offered: Fall 2012. Typically offered every Spring Term

A survey of American history since the War Between the States, with emphasis on political, social, cultural, economic, and military trends, and on the ways in which unified American civilization is created from diverse elements. Western History Perspective.

1 Course Credit

HIS 165 Introduction to African-American History (AFR)

Offered: Typically Fall and Spring terms

This course surveys the formation of African American cultural identity from the early National period to the present. This course will touch upon major formative events in African American history: slavery, the early formation of African American cultural institutions, the reconstruction of African American life after slavery, northern migration during the World Wars, the civil rights and black power movements of the 1950s and 1960s, and urbanization and class structure in the 1980s and 1990s. African Americans', Appalachians', and Women's Perspective and Western History Perspective.

1 Course Credit

HIS/PSC 175 History and Politics of the Arab-Israeli Conflict

Offered: Typically every other Fall Term

An overview of the Conflict, from the late 19th century to the present. This course covers the Zionist Movement, the Great Powers and the Ottoman Empire in World War I, the British Mandate for Palestine, the War of 1948, the Suez Canal Crisis, the Six-Day War, the Yom Kippur / 10th of Ramadan War, Camp David Peace Accords, the First Intifada, the Madrid Peace Talks, the Oslo Accords, the Second Intifada. Other subjects include human rights, international law, refugees, water, borders, international relations, the role of the USA, and Israeli and Arab political ideologies, leaders and parties. World Culture (Non-Western) Component of the International Perspective.

1 Course Credit.

HIS 200 Introduction to Historical Study

Offered: Typically every term.

An introduction to history as a scholarly discipline; a way of studying one aspect of human experience. It includes examination of various kinds of sources and how they are handled, principles of research, the collection of data and use of quantitative analysis, historical reasoning, interpretation and synthesis, the history of historical study, and issues raised by contemporary concerns about the uses of history. Should be taken by majors not later than the sophomore year. Social Science Perspective.

1 Course Credit

HIS 201 American Political Thought (PSC)

Offered: Typically as student interest and faculty availability allow

A study of major theoretical traditions related to the design and history of American government and political culture.

1 Course Credit

HIS 202: Christians and Pagans in the Late Antique World (REL)

Prerequisite: GSTR 210

Offered: Typically alternate Spring Terms (next offered yet to be determined)

An introduction to the political, social, cultural and religious world of late antiquity (c. AD 250-750), with particular attention to the emergence of Christianity and Islam in the context of the religious and philosophical diversity of the period. Western History Perspective and Religion Perspective.

1 Course Credit

HIS 209 Classical Greek Civilization

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate Spring Terms (next offered Spring 2014)

History of Greece from its earliest period through the conquests of Alexander the Great, with emphasis on political and cultural forces. Western History Perspective.

1 Course Credit

HIS 210 Classical Roman Civilization (LAT)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alt. Spring Terms (next offered Spring 2013)

History of Rome from its foundations to 476 A.D., with emphasis on political, social, economic, and religious forces. Arts Perspective and Western History Perspective.

1 Course Credit

HIS 215 History of Christianity to 1600 (REL)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered 2013-2014)

A general survey of the development of Christianity from apostolic times through the 16th-century Reformations. Emphasis is on Western Christianity, the development of beliefs, practices, and institutions, and Christianity's interaction with society and culture. Religion Perspective and Western History Perspective.

1 Course Credit

HIS 223 History of the Pre-Modern Middle East

Prerequisite: GSTR 110

Offered: Typically every other Fall Term

An examination of the social organization, cultural expressions, and political institutions that evolved in the Middle East from the emergence of Islam to early modern times. Special attention will be given to the historical origins of religious traditions which are still alive today, namely Sunni, Shiite and Sufi Islam. A comparative approach will encourage students to appreciate diversity within various Islamic societies historically, as well as vis-a-vis Western societies. Islamic worldviews, including historiography will be studied. Students are encouraged to carefully examine the historical development and religious claims of these Islamic traditions. World Culture (Non-Western) Component of the International Perspective and Religion Perspective.

1 Course Credit

HIS 224 20th-Century World History

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (Offered Fall 2012)

This course is an examination of major world developments from 1900 to 2000. Topics include colonialism; the two World Wars; political experimentation in the interwar years; the Cold War; the demise of political imperialism; nation-building in Africa, Asia, and South America; globalization; the fall of Soviet-based communism; and challenges to nationalism and the nation-state, including the rise of political regionalism, environmental sustainability, human rights, and terrorism. World Culture (Western) component of the International Perspective.

1 Course Credit

HIS 229 Modern Imperialism (AST)

Prerequisite: HIS 102, HISIAST 122, HISIAST 123, OR GSTR 210

Offered: Typically alternate years (offered Fall 2012)

This course is a selective exploration of imperialism using a comparative historical perspective. Beginning with a reflection on the meanings of "empire," the course explores the rise of European empires during the "high colonialism" of the 19th and 20th centuries. This course then will explore the expansion of European colonialism and regional responses-including local resistance, national revolutions, and the development of the Soviet and Japanese Empires. After examining the dynamics of imperial decline between 1919 and 1945, the course will conclude by considering the status of empires in the post-World War II period. World Culture (Western) component of the International Perspective.

1 Course Credit

HIS 240 Islam (REL)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2013)

An examination of the doctrine, ritual, jurisprudence, and historical vision of Islam with an emphasis on historical and contemporary expressions of Islam. Special attention will be given to the historical origins of religious traditions which still are alive today, namely Sunni, Shi'ite, and Sufi Islam, as well as the central features of Islamic theology and practice, including the Qur'an, the Hadith (the Traditions), legal reasoning, and Tafsir (Qur' an interpretation). Students study modern political and social expressions of Islam, including the political Islamic movements, popular piety, and women in Muslim society. The interrelations of Islamic traditions with Christian and Jewish traditions also will be studied. Religion Perspective and a World Culture (Non-Western) component of the International Perspective.

1 Course Credit

HIS 253 Appalachian America (APS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Fall 2014)

A broad survey of the history of the Appalachian region. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

HIS 260 Survey of African History (AFR)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

A survey of African history from the ancient period to the late 20th century. Although the major concentration is upon "Sub-Saharan Africa" and the effects of the enslavement trade and colonialism, the course does provide a brief discussion of significant continent -wide highlights from the ancient and medieval periods. The history of Africa's independence movements and the post-independence era also are addressed. World Culture (Non-Western) component of the International Perspective.

1 Course Credit

HIS 270 The Recent History of the Middle East

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2013)

A survey of the recent history of the Middle East including political, economic, and religious factors important to the region. World Culture (Non-Western) Component of the International Perspective.

1 Course Credit

HIS 310 Seminar in United States History

Prerequisites: HIS 161, HIS 162

Offered: Typically every Spring Term

A course designed to examine a key period or a significant segment of life in the United States that will encourage students to develop a deeper appreciation of this history and a better understanding of sources and methodologies historians use to analyze past human experiences. By reading primary and secondary materials, students will develop an understanding of how a variety of factors interact to shape institutions, time periods, and groups of people. This course may be repeated for credit, provided the topic differs from previous offerings. Religion Perspective and Western History Perspective. NOTE: Also see *Schedule of Classes* for specific term offerings to see if the course has been approved to meet additional General Education requirements.

1 Course Credit

HIS 311 Seminar in Medieval European Civilization

Prerequisite: HIS 101 or junior standing

Offered: Typically alternate years (next offered Fall 2014)

Through examination of a key period or topic in the history of Medieval Europe (5th through 14th centuries, A.D.), students will develop both a deeper appreciation of this distinctive civilization and its relations to its neighbors, and better understand the sources and methodologies historians use to analyze the human experience in a past era. By reading key primary documents and secondary materials from important historians, they will develop a picture of the way social, economic, political, and cultural issues interact and shape a period. May be repeated for credit, provided the topic differs from that previously studied. If taken in or after Fall Term 2010, meets Religion Perspective and World Culture (Western) component of the International Perspective.

1 Course Credit

HIS 314 Renaissance and Reformation

Prerequisite: HIS 102 or junior standing

Offered: Typically alternate years (offered Fall 2012)

An examination of the European experience from the late 14th to the late 16th century, including the Renaissance in Italy and trans-alpine Europe, the Religious Reformation of the 16th century, and the resultant diversification of Western Christianity, and the impact of European contact and interaction with the Non-Western world. If taken in or after Fall Term 2010, meets Religion Perspective and Western History Perspective.

1 Course Credit

HIS 315 19th-Century Europe: Revolutions and Industrializing Nations

Prerequisite: HIS 102 or junior standing

Offered: Typically alternate years (next offered term yet to be determined)

This course examines the history of Europe from the French Revolution, which signaled the end of the Old Order, to the outbreak of World War I, which led to the end of European primacy in the world. Major themes for the years 1789 through 1848 include the first and second industrial revolutions, the decline of aristocratic hegemony, the emergence of new ideologies (especially nationalism, liberalism, and socialism), and the rise of the bourgeoisie. After 1870, principal themes include domestic politics, culture in Europe's golden age, and increasing national rivalry and competition.

1 Course Credit

HIS 316 20th-Century Europe: Division and Reconciliation

Prerequisite: HIS 102 or junior standing

Offered: Typically alternate years (next offered term yet to be determined)

This course explores major political, social, economic, and cultural developments in 20th-century Europe. Topics include the First World War and its aftermath, the Russian Revolution, Stalinism, Fascism, and Nazism, the Second World War, the origins of the Cold War; life in a divided Europe in the post-1945 period, the collapse of Soviet-based communism; and the Balkan Wars in the 1990s. The course combines a survey of broad historical movements with focused examination of specific case studies. Western History Perspective and Practical Reasoning (PR).

1 Course Credit

HIS 322 Seminar in Chinese History (AST)

Prerequisite: HIS/AST 122 or 123; OR junior standing

Offered: Typically alt. Spring Terms (next offered Spring 2014)

The goal of this course is two-fold. Through examining a key period in Chinese history, students both will develop a deeper appreciation for Chinese culture and a better understanding for the various methodologies that historians employ in analyzing complex societies. By reading key primary documents and secondary material from important historians, students will develop a picture of the way social, economic, political, and cultural issues interact and shape the period. May be repeated for credit, provided the topic differs from that previously studied. World Culture (Non-Western) component of the International Perspective.

1 Course Credit

HIS 323 Seminar in Japanese History (AST)

Prerequisite: HISIAST 122 or 123; OR junior standing

Offered: Typically alt. Spring Terms (next offered Spring 2013)

The goal of this course is two-fold. Through examining a key period in Japanese history, students will develop both a deeper appreciation for Japanese culture and a better understanding for the various methodologies that historians employ in analyzing complex societies. By reading key primary documents and secondary material from important historians, students will develop a picture of the way social, economic, political, and cultural issues interact and shape the period. May be repeated for credit, provided the topic differs from those previously studied. World Culture (Non-Western) component of the International Perspective.

1 Course Credit

HIS 335 Topical Seminar in Modern European History

Prerequisite: HIS 102 or junior standing

Offered: Typically alternate years (next offered to be determined)

This course examines a specific topic in the history of Modern Europe in an effort to develop both a deeper appreciation for the complexity of the past and an understanding for the various methodologies that historians employ. By reading primary documents and secondary materials, students will develop an understanding of the way social, economic, political, and cultural issues interact and shape a period. May be repeated for credit, provided the topic differs from those previously studied. NOTE: Certain sections of this course also will supplement the Women's Studies and Asian Studies programs, as well as being suited to General Education's African Americans', Appalachians', and Women's Perspective, International Perspective, and Western History Perspective, depending upon each section's focus. Refer to the *Schedule of Classes* to see which specific sections meet these perspectives. Western History Perspective.

1 Course Credit

HIS 355 Seminar in American Religious History (REL)

Offered: Typically alternate years

Prerequisites: HIS 161 or HIS 162 or REL 200 or Permission of Instructor

A selective survey of the history of religion in North America from pre-colonial times to the present. Some of the themes explored include religion's role as a force for both national cohesion and division; the construction of-and relationship between-the sacred and the secular in American culture; the relationship between "outsider" religions and "mainstream" religious practice; and the intersection of religion and American democracy. Noncredit for students who have completed this course as HIS 310. Religion Perspective and Western History Perspective.

1 Course Credit

HIS 356 Seminar in African-American History (AFR)

Prerequisite: HIS 161 and 162; or HISIAFR 165

Offered: Typically annually (next offered term Spring 2014)

Through examination of a key period in African American history, students will develop a deeper appreciation of this history and a better understanding of sources and methodologies historians use to analyze past human experiences. By reading key primary and secondary materials, students will develop an understanding of the way cultural, social, economic, and political issues interact to shape the period. May be repeated for credit, provided the topic differs from that previously studied. NOTE: African Americans', Appalachians', and Women's Perspective and Western History Perspective.

1 Course Credit

HIS 406 Senior Seminar in History

Prerequisite: HIS 200, completion of a 300-level HIS course, and senior standing, or junior standing with permission of instructor

Offered: Typically every fall.

The capstone course for the History major. A study of problems, conflicting interpretations involving specific periods, major writings, or classical writings of history. May be repeated for credit, provided the topic differs from that previously studied.

1 Course Credit

HIS 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

HIS 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

HIS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

HIS 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

1 Course Credit

HIS 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Library Science

LSC 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

LSC 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

LSC 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Math

MAT 010 Pre-Algebra

Offered: Typically fall and spring terms

This course is designed for students who need to review and master pre-algebra topics including computation of whole numbers, decimals, fractions, and integers; ration, proportion, and percent; and geometry. NOTE: This full-term course will provide students with one (1) load credit.

Noncredit Course

MAT 011 Elementary Algebra I

Prerequisite: Completion or waiver of MAT 010

Offered: Typically Fall and Spring

This course is designed for students who need to review and master the first half of the elementary algebra topics; solving linear equations and inequalities; negative exponents; scientific notation; operations with polynomials; factoring polynomials; and operations with rational expressions. NOTE: This full-term course will provide students with one (1) load credit. Noncredit Course

MAT 012 Elementary Algebra II

Prerequisite: Completion or waiver of MAT 011

Offered: Typically Fall, Spring, and Summer terms

This course is the third and final course in the developmental-math sequence; consequently, the content consists of review of the material covered in the first two developmental math courses, reinforcing and expanding that material, and also covers linear graphing; solving linear systems of equations; basic problem solving; rational expressions and exponents; roots and radicals; and quadratic equations. Students will be exposed to proper study skills for learning mathematics and will participate in group learning activities. The course is designed to prepare students for subsequent courses with quantitative reasoning/mathematics content. NOTE: This full-term course will provide students with one (1) load credit. Noncredit Course

MAT 101 Mathematical Modeling Using the Computer

Prerequisite: Completion or waiver of MAT 012

Offered: Typically Spring term and as student interest and faculty availability allow

This course provides an introduction to computers and to mathematical modeling of problems from the real world with an emphasis on using the computer as a flexible problem-solving, predictive, and exploratory tool. A selected computer-application package is studied in depth and used to explore a variety of applied examples. This computer package may vary from section to section. Practical Reasoning with Quantitative Emphasis (PRQ). NOTE: Noncredit for students who completed or waived MAT 110 (no longer offered at Berea College), 115, or 135. 1 Course Credit

MAT 104 Introduction to Statistics

Prerequisite: Completion or waiver of MAT 012

Offered: Typically Fall and Spring terms

This course is designed for students with little mathematics background who wish to gain experience with the basic concepts of statistics and their applications. Topics include graphic representations of data; measures of central tendency and variability; probability; sampling distributions; estimation using confidence intervals; and significance testing. Practical Reasoning with Quantitative Emphasis (PRQ). NOTE: This course is not intended for Mathematics majors and is noncredit for students who completed ECO 250 or MAT 311. 1 Course Credit

MAT 105 Introduction to Discrete Mathematics

Prerequisite: Completion or waiver of MAT 012

Offered: Typically Fall and Spring terms

Discrete mathematics is the branch of mathematics that deals with arrangements of distinct objects. The course will focus on three basic questions related to these arrangements: the existence of such arrangements, the counting of such arrangements, and the selection of a "best" arrangement based upon some criterion. Techniques from this branch of mathematics have application in a wide variety of practical everyday situations, such as how to find the best route for snowplows in a city or what voting method would best represent the will of the voters. Other useful applications include how to count the number of different possible combinations of color and type of a marketed product, and how best to schedule a list of tasks to be done. Discrete mathematical models are used by decision makers in our society, from workers in government to those in health care, transportation, and telecommunications. Practical Reasoning with Quantitative Emphasis (PRQ). 1 Course Credit

MAT 108 Environmental Issues: A Mathematical Modeling Approach

Prerequisite: Completion or waiver of MAT 012

Offered: Typically annually (next offered term yet to be determined)

The state of the planet will be discussed from differing points of view. Local and global issues such as air, land and water pollution; energy production and consumption; forest, wetland, and other resource management; and waste disposal will be considered. Mathematical models will be developed and explored on the computer in order to make predictions and to consider solutions regarding the environmental problems that face our world. Practical Reasoning with Quantitative Emphasis (PRQ). NOTE: Noncredit for students who completed or waived MAT 101, 110 (no longer offered at Berea College), 115, or 135. 1 Course Credit

MAT 115 College Algebra with Modeling

Prerequisite: Completion or waiver of MAT 012

Offered: Typically Fall and Spring terms

This course offers a study of algebraic functions and their uses in mathematical modeling. Topics will include the real-number system; basic concepts of functions and graphs; linear, polynomial, rational, exponential, and logarithmic functions and models; and the solutions of systems of linear equations. Applications to various disciplines will be investigated through the development and analysis of mathematical models. Practical Reasoning with Quantitative Emphasis (PRQ). NOTE: Noncredit for students who completed or waived MAT 135. 1 Course Credit

MAT 125 Trigonometry with Applications

Prerequisite: Completion or waiver of MAT 115

Offered: Typically Fall and Spring terms

This course offers a study of trigonometry and trigonometric functions. Topics will include a review of basic concepts of functions and graphs; trigonometric functions; analytic trigonometry; trigonometric equations; and polar coordinates and vectors. Applications of trigonometry will be investigated through the development and analysis of mathematical models. Practical Reasoning with Quantitative Emphasis (PRQ). 1 Course Credit

MAT 135 Calculus I

Prerequisite: A knowledge of trigonometry and MAT 110, 112, or 125 with a grade of C or higher, or waiver of same based on placement test

Offered: Typically Fall and Spring terms

A study of analytic methods in geometry precedes an introduction to differential calculus. Main topics include exponential, logarithmic, and trigonometric functions, limits, continuity, differentiation, indeterminate forms, and applications of differential calculus. Practical Reasoning with Quantitative Emphasis (PRQ) Requirement. 1 Course Credit

MAT 201 The Foundations & Teaching of Elementary Mathematics I

Prerequisite: Completion or waiver of MAT 012

Offered: Typically every Fall Term

This course will be a study of basic ideas of sets, operations on sets, the counting numbers, and the extension of the numbers to include the rational and real number systems. Throughout the course, the emphasis will be on understanding ideas in mathematics through problem solving and the use of manipulatives, and using this understanding to investigate and develop strategies for teaching elementary mathematics. Field experiences with children are required for all students enrolled. 1 Course Credit

MAT 202 The Foundations & Teaching of Elem. Math. II

Prerequisite: Completion or waiver of MAT 012; MAT 201 with a grade of C or higher

Offered: Typically every Spring Term

This course is a continuation of MAT 201. Topics in mathematics to be covered include: definitions, axioms, similarity, congruence, areas, and volumes. Throughout the course, the emphasis will be on understanding ideas in mathematics through problem solving and the use of manipulatives, and using this understanding to investigate and develop strategies for teaching elementary mathematics. Field experiences with children are required of all students enrolled. 1 Course Credit

MAT 203: Geometry for Middle and Elementary Teachers

Prerequisite: A grade of C or higher in MAT 201.

Typically offered as student interest and faculty availability allow

A study of geometric concepts, mathematical justification, and methods for teaching geometry to elementary and middle grade students. The geometric concepts include: the properties of lines, triangles, quadrilaterals-circles, tessellations and geometric solids. These concepts will be explored through problem solving, manipulatives, educational software and cooperative learning. Practical Reasoning Requirement (PR). 1 Course Credit

MAT 214 Linear Algebra

Prerequisite: MAT 135 or permission of instructor

Offered: Typically every Spring Term

This course illustrates the nature of mathematics as a blend of techniques, theory, abstraction, and applications. The problem of solving linear equations leads to the algebra of matrices, determinants, vector spaces, bases and dimensions, linear transformations and eigenvalues. Practical Reasoning with Quantitative Emphasis (PRQ). 1 Course Credit

MAT 225 Calculus II

Prerequisite: MAT 135 with a grade of C or higher

Offered: Typically Fall and Spring terms

This course is a continuation of MAT 135. Main topics include the definite integral, applications of the definite integral, integration techniques, numerical integration, and series. Microcomputer graphics and computational packages will be introduced and used in the analysis of selected problems. Practical Reasoning with Quantitative Emphasis (PRQ) Requirement. 1 Course Credit

MAT 308 The Teaching of Mathematics

Prerequisite: Permission of instructor

Offered: Typically as student interest and faculty availability allow

This course is designed to acquaint prospective secondary-school teachers with the issues affecting the teaching of mathematics including theory, research, content, and methodology; the resources available to assist them in teaching mathematics; and the NCTM's Professional Standards. Particular emphasis will be given to the use of manipulatives, technology, problem solving, and cooperative learning in the teaching of mathematics. Observing and teaching youths are required of all students enrolled. 1 Course Credit

MAT 311 Probability

Prerequisite: MAT 135 with a grade of C or higher; MAT 225 or concurrent enrollment; or permission of instructor

Offered: Typically alternate Fall Terms (next offered Fall 2014)

Designed to provide a solid foundation in probability theory. The student should gain an understanding to mathematical concepts and techniques necessary to study statistical inference. Practical Reasoning with Quantitative Emphasis (PRQ). 1 Course Credit

MAT 312 Operations Research

Prerequisite: MAT 135 or permission of instructor

Offered: Typically alternate years (next offered 2013-2014)

Operations Research is an applied area employing both mathematics and computer science in addressing certain kinds of decision problems arising in a wide variety of disciplinary and professional contexts. The goals of the course will be to develop skills in identifying typical problems; formulating, solving, and interpreting appropriate models; and developing interactive feedback with the problem environment. Topics include linear programming and network formulations; the simplex algorithm and its computer implementation; sensitivity analysis; duality; network algorithms; and dynamic programming. Practical Reasoning with Quantitative Emphasis (PRQ). 1 Course Credit

MAT 315 Fundamental Concepts of Mathematics

Prerequisite: MAT 135

Offered: Typically every Fall Term

Designed to acquaint students with some of the concepts and methods fundamental to all areas of mathematics. Topics will include set theory, relations, functions, logic, methods of proof, cardinality, and selected properties of the real number system. Practical Reasoning (PR). 1 Course Credit

MA T 321 Foundations of Geometry

Prerequisite: MAT 315

Offered: Typically alternate years (next offered Fall 2013)

This course will include an overall view of the structure of geometry evolving from the basic axioms of Euclidean geometry. The interrelationships between various geometries such as affine, neutral, hyperbolic, projective, elliptic, and others will be studied, as well as some of the easier, important results of each. Because this material is necessary for a good understanding of Euclidean geometry, it is important that those students considering a high-school teaching career in mathematics enroll in this course. 1 Course Credit

MAT 330 Calculus III

Prerequisite: MAT 225 with a grade of C or higher

Offered: Typically every Spring Term

This course is a continuation of MAT 225. Main topics include three dimensional vectors, space, curves, solid analytic geometry, differential calculus of several variables, and multiple integration. Microcomputer graphics and computational packages will be introduced and used in the analysis of selected problems. Practical Reasoning with Quantitative Emphasis (PRQ) Requirement. 1 Course Credit

MAT 426 Math Literature: Reading and Communication

Prerequisite: Senior standing and permission of instructor

Offered: Typically annually

The main goal of this course is to introduce students to research and communication in mathematics. Teams of students will work together reading and discussing selected articles from selected mathematical journals, writing team papers, and giving team presentations on the material read. The emphasis will be placed on developing reading comprehension of mathematics above the textbook level and on developing effective methods for communicating this information. The course will culminate in the completion of individual student projects, with students selecting their own article or topic to research, and presenting the material both in a formal research paper and in an oral presentation. The satisfactory completion of this individual project will satisfy the senior seminar requirement for the Mathematics Major. 1 Course Credit

MAT 432 Abstract Algebra

Prerequisite: MAT 315 and 330 or permission of instructor

Offered: Typically alternate years (next offered 2014-2015)

A course designed to introduce students to the methods and topics essential to the study of algebraic structure and its implications. An introduction to group theory will serve to launch an investigation of more highly structured algebras such as rings, integral domains, and fields. 1 Course Credit

MAT 433 Numerical Analysis (CSC)

Prerequisites: MAT 225; one course chosen from CSC 125, 126, or 226; AND one course chosen from MAT214, 315, or 330

Offered: Typically alternate Spring Terms

An investigation of numerical methods for computer solutions of diverse applied problems. In this course, we will discuss and develop various algorithms that form the basis for computer applications including root finding, interpolation, differentiation and integration, and system of linear equations.

1 Course Credit

MAT 434 Real Analysis

Prerequisite: MAT 315 and 330, or permission of instructor

Offered: Typically alternate years (next offered 2013-2014)

Basic algebraic and topological properties of the real number system will be established and then applied to the study of such concepts as limit, continuity, differentiation, integration, and infinite series.

1 Course Credit

MAT 435 Complex Analysis

Prerequisite: MAT 330

Offered: Typically alternate years (next offered 2012-2013)

The main objective will be to study functions of a complex variable. The study will draw heavily on the student's previous experience with functions of a real variable. Topics will include the complex numbers differentiation and integration of functions of a complex variable; power series representation; analytic functions; and the calculus of residues.

1 Course Credit

MAT 436 Topology

Prerequisite: MAT 315 and 330, or permission of instructor

Offered: Typically as student interest and faculty availability allow

Topological spaces will be approached by abstracting from a preliminary study of metric spaces. Topics in metric and/or topological settings include open and closed sets; open base and subbase; first and second countability; dense sets; continuity; metrizable; and compactness, connectedness, and separation properties.

1 Course Credit

MAT 437 Differential Equations

Prerequisite: MAT 330

Offered: Typically every Fall Term

This course provides an introduction to both pure and applied aspects of differential equations. Topics to be studied include first-order equations, second-order linear equations, power-series solutions, Laplace Transforms, systems of first-order equations, and nonlinear equations: Practical Reasoning with Quantitative Emphasis (PRQ).

1 Course Credit

MAT 438 Statistics

Prerequisite: MAT 311 and 330

Offered: Typically alternate Spring Terms (next offered Spring 2013)

A continuation of MAT 311. The student should gain an appreciation of the nature, scope, and theoretical basis of methods of statistical inference. Topics will include estimation, hypotheses testing, and linear regression. Applications will be discussed.

1 Course Credit

MAT 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

MAT 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

MAT 492 Senior Mathematics Seminar

Prerequisite: Permission of instructor and senior standing

Offered: Typically annually (next offered Spring 2013)

During the senior year, each Mathematics major is required to register for this course. Each student's project will begin with a lead paper provided by a faculty-resource person. The project will involve preparation of a 4-10 page research paper and will conclude with an oral presentation. Successful completion of this course will satisfy the major's field-writing requirement.

1/4 Course Credit

MAT 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

MAT 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

MAT 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Music

MUS 106 World Music

Offered: Typically annually

This course will examine the music within four cultures: Native American, Indian, African, and African-American. The music of each culture will be examined within the context of its history, peoples, and traditions. Musical examples, videos, oral presentations, class demonstrations, and special programs/concerts will be included. Students also will attend several College convocations and discuss, compare, and reflect on the various music cultures and experiences. Arts Perspective and World Culture (Non-Western) component in the International Perspective.

1 Course Credit

MUS 115 Introduction to Music Literature

Offered: typically alternate years in spring term (years when MUS 3301331 are not offered)

An introduction to the study of music literature. Students in this course will be introduced to significant musical pieces from the major historical periods and will learn to distinguish the musical stylistic characteristics of those periods. Emphasis will be on the development of listening skills and appropriate methods and abilities to analyze, interpret, discuss, and write about music. May include required attendance of live musical performances on campus or in the region, as available and appropriate. Four periods per week. Arts Perspective.

1 Course Credit

MUS 118A: Fundamentals of Music, Part I

Prerequisite: None

Offered: Typically every Fall Term

An introduction to reading music, including musical symbols and terminology, rhythm and meter, scales, key signatures, intervals, and chords. Both written and aural skills are developed. Simple musical forms and music literature are included. Designed particularly for: prospective Music majors and minors who need further development of fundamental written and/or aural skills in music in preparation for courses in the Materials of Music and Aural Harmony sequence. Two to three class periods per week. This course also is open to the general College student who wishes to develop fundamental knowledge and skills in music.

1/2 Course Credit

MUS 118B: Fundamentals of Music, Part II

Prerequisite: MUS 118A or Permission of Instructor

Offered: Typically every Spring Term

Continuation of MUS 118A. Further development of fundamental written and aural skills in reading music, rhythm and meter, scales, key signatures, intervals, and chords. Simple musical forms and music literature are included. Designed particularly for: prospective Music majors and minors who need further development of fundamental written and/or aural skills in music in preparation for courses in the Materials of Music and Aural Harmony sequence. Three class periods per week. This course also is open to the general College student who wishes to develop fundamental knowledge and skills in music.

1/2 Course Credit

MUS 216 Perceptive Listening to Music

Offered: Typically as student interest and faculty availability allow

A study of one or more of the arts, or of a particular medium, in a cultural, cross-cultural, or historical context. Attention will be given to form, structure, style, and other critical considerations. The course will have a research component. The primary focus of this course is the enhancement of the joy of listening to music through the development of music-listening skills in the framework of perceiving and understanding musical information. Emphasis on the attentive style of listening, the elements of music, and the variety of musical styles will be the three areas used to develop such a framework. Arts Perspective.

1 Course Credit

MUS 220 Materials of Music I

Prerequisite: MUS 118B or waiver

Offered: Typically every Fall Term

Beginning a four-term sequence of courses in the theoretical approach to music, this is a study of the properties of sound, the overtone series, symbols of notation, rhythm, intervals, scales, and key signatures. Harmonic studies include triads and their inversions, phrase structure and cadences, and harmonic progressions. The course will focus on playing major and minor scales, all triad types and their inversions, and basic chord progressions using primary triads. Two class periods per week plus a keyboard lab. Usually taken in conjunction with MUS 221. NOTE: Noncredit for students who completed MUS 120.

1/2 Course Credit

MUS 221 Aural Harmony I

Prerequisite: MUS 118B or waiver

Offered: Typically every Fall Term

The relationship between the printed musical symbol and its auditory representation. The "musical ear" is developed through the sight-singing of simple melodies, intervals, scales, and rhythmic patterns. Brief exercises in melodic and rhythmic dictation and conducting patterns. Three periods per week. Usually taken in conjunction with MUS 220

1/2 Course Credit

MUS 222 Materials of Music II

Prerequisite: MUS 220 (formerly 120)

Offered: Typically every Spring Term

Continuation of MUS 220. The study of non-harmonic tones, seventh chords, modulation, the four-part chorale style, and keyboard style. Music forms, introductory counterpoint, and analysis of works from . music literature. Playing basic chord progressions using the secondary as well as primary triads, harmonizing simple melodies, simple transposition, and basic harmonic progressions in four parts. Two class periods per week plus a keyboard lab. Usually taken in conjunction with MUS 223 (formerly 313).

1/2 Course Credit

MUS 223 Aural Harmony II

Prerequisite: MUS 221

Offered: Typically every Spring Term

Continuation of MUS 221. Further studies in sight-singing; melodic and rhythmic dictation; harmonic backgrounds and part-singing; syncopation; and beginning harmonic dictation. Three periods per week. Usually taken in conjunction with MUS 322.

1/2 Course Credit

MUS 224 Appalachian Music CAPS)

Offered: Typically as student interest and faculty availability allow

An introduction to the music that has been, and is, an important part of the culture of the Southern Appalachian region. Specific musical elements will be discussed in relation to ballads and songs, instrumental music, bluegrass, country, and various types of religious music. The importance of the region's music and musicians in the development of country and popular music in America is treated. Three periods per week. Arts Perspective and African Americans', Appalachians', and Women's Perspective.

1 Course Credit

MUS 234 African-American Music: An Overview (AFR)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

The study of African-American music and musicians within the general framework of American society, tracing the development of the music from its African origins to its impact upon and fusion with American music and culture. Although the main focus will be placed upon music indigenous to African-American culture, study will encompass significant African-American musicians in the European classical music tradition. Arts Perspective and African Americans', Appalachians', Women's Perspective.

1 Course Credit

MUS 320 Materials of Music III

Prerequisite: MUS 222

Offered: Typically every Fall Term

Continuation of MUS 222. Seventh chords, altered chords, chromatic harmony, modulation, musical forms, and analysis of musical examples from the common practice period. Three periods per week. Usually taken in conjunction with MUS 321.

1/2 Course Credit

MUS 321 Aural' and Keyboard Harmony III

Prerequisite: MUS 223

Offered: Typically every Fall Term

Continuation of MUS 223. Sight-singing of diatonic and chromatic melodies; use of computers in developing aural skills; melodic, rhythmic, contrapuntal, and harmonic dictation. Harmonizing melodies at the piano keyboard. Two periods per week. Usually taken in conjunction with MUS 320.

1/2 Course Credit

MUS 322 Materials of Music IV

Prerequisite: MUS 320

Offered: Typically every Spring Term

Continuation of MUS 320. Modulation to remote keys, chords of multiple thirds, larger musical forms, alternatives to traditional harmony, impressionism atonality, poly tonality, serialism, electronic music, minimalism, and new systems of notation. Analysis of late 19th- and 20th-century works. Creative writing in various styles. Three periods per week. Usually taken in conjunction with MUS 323.

1/2 Course Credit

MUS 323 Aural and Keyboard Harmony IV

Prerequisite: MUS 321

Offered: Typically every Spring Term

Continuation of MUS 321. Sight-singing of modulating; modal, tonal, and atonal melodies; and melodic, contrapuntal and harmonic dictation. Continuation of computer usage in furthering aural skills. Keyboard skills include harmonization using diatonic and altered chords, transposition, chord symbols, improvisation, and figured bass. Preparation for Piano Proficiency Examination. Two periods per week. Usually taken in conjunction with MUS 322.

1/2 Course Credit

MUS 326: Vocal Methods

Prerequisite: MUS 223 or permission of the instructor

Offered: Typically alternate Fall Terms.

A course in the fundamentals of singing for grades K -12 and how these fundamentals may be used in effective instruction of students in a school's music program to develop healthy singing habits and music reading independence. Special attention is given to the physical and psychological aspects of vocal pedagogy for unchanged and changing voices, along with methods appropriate to the choral rehearsal. Focus is also given to the benefits of vocal music for students with special needs, and the benefits of including special needs students in the school choir. Course work will include a survey of choral music, choral literature, and choral resources as it applies to the school music program at all levels.

1 Course Credit

MUS 328 Teaching of Brass and Percussion Instruments

Prerequisite: Admission to Music or Music Education major; or permission of instructor

Offered: Typically alternate Spring terms (next offered Spring 2013)

A study of the materials, methods, literature, and pedagogy of brass and percussion instruments. Course requirements include reading and research assignments, examination of appropriate materials and equipment, a performance and teaching laboratory component, and practicum experiences. Three class meetings per week.

1/2 Course Credit

MUS 329 Teaching of Woodwind Instruments

Prerequisite: Admission to Music or Music Education major; OR permission of instructor

Offered: Typically alternate Fall Terms (next offered Fall 2012)

A study of the materials, literature, and pedagogy of woodwind instruments. Course requirements include reading and research assignments, examination of appropriate materials and equipment, a performance and teaching laboratory component, and practicum experiences. Three class meetings per week.

1/2 Course Credit

MUS 330/331 Music History I and II

Prerequisites: Declared Music or Music Education major or Music minor; and MUS 115, MUS 222; or permission of instructor

Offered: Typically alternate years (MUS 330 offered Fall 2012 and MUS 331 offered Spring 2013)

An upper-level historical survey of Western music-its styles, genres, composers, and works. A "music-centered" course, this survey will include analysis of representative works of the music literature. The music of classical Greece and the early Christian era through the Baroque, first term; the Classic era to the

present day, second term. Four periods per week.

1 Course Credit Each

MUS 335 Materials and Methods for Teaching Elementary Music

Prerequisite: Admission for the Music or Music Education major; or permission of the instructor.

Offered: Typically alternate Spring Terms

MUS 335 is an introduction to philosophies, methodologies, and pedagogical foundations of teaching music in elementary schools, including, but not limited to, the music teaching philosophies of Kodaly, Orff, Dalcroze, and Gordon. Course activities will include review of materials, assigned readings, research, class discussions, practical teaching laboratory sessions, and practicum experiences.

Assessment, planning, and implementation of music education activities for people with unique needs and abilities will be covered. Special attention is directed to preparing performance evidence of addressing New Teacher Standards I-IV. Four meetings per week.

1 Course Credit.

MUS 336: Fundamentals of Teaching Instrumental Music in the Public Schools

Prerequisites: Music Majors only or by permission of the instructor; EDS 150 and MUS 223

Offered: Typically alternate Fall Terms

This course provides an overview of the instrumental music education profession, including the philosophy, methodology, and pedagogical foundations that are essential for successful teaching. Students will be directed in their development of musical teaching-assessment, administrative, and personal, skills that are necessary for successful teaching. Assessment, planning, and implementation of music education activities for people with unique needs and abilities will be covered. Special attention is directed to preparing performance evidence of addressing New Teacher Standards I-IV. Four periods per week.

1 Course Credit.

MUS 337 Conducting

Prerequisite: MUS 223

Offered: Typically alternate Fall Terms (next expected to be offered Fall 2013)

Study and practice of beat patterns, baton technique, left-hand functions, cueing, pulse changes, recitative conducting, error detection, score reading, score marking, and other techniques used in instrumental and choral conducting. Practical experience. Concurrent participation in ensemble of major applied instrument (MUS 131, 132, or 135) is required for laboratory experience. Four periods per week.

1 Course Credit

MUS 3400 Organ Pedagogy

Prerequisite: MUA 221 (organ) or permission of instructor

Offered: Typically as student interest and faculty availability allow

A study of instructional methods and materials used in teaching organ, as well as performance practices and problems. Each person enrolled in the course will teach lessons to two beginning organ students during the term, gaining practical experience in pedagogy. Two periods per week plus one hour teaching,

1/2 Course Credit

MUS 340p Piano Pedagogy

Prerequisite: MUA 221p (piano) or permission of instructor

Offered: Typically as student interest and faculty availability allow

Lectures and discussion of teaching skills on all levels, in addition to a survey of methods and materials. Private and class teaching methods. Two periods per week.

1/2 Course Credit

MUS 341 Studio Teaching

Prerequisite: MUS 340p

Offered: Typically as student interest and faculty availability allow

Supervised teaching of piano with related discussions in a weekly seminar. One-hour seminar, plus two periods of teaching per week.

1/2 Course Credit

MUS 342v Vocal Pedagogy and Diction

Prerequisite: MUA 326v (voice) or permission of instructors

Offered: Typically alternate Spring terms

A study of the physiological functions involved in singing (breathing, phonation, etc.). Consideration of vocal methods, use of imagery in teaching, resonance, tone quality, placement, vocalization, diction (Italian, German, French, and English) including a working knowledge of the International Phonetic Alphabet (IPA), and interpretation. There will be many reading assignments, as well as listening to recordings and observing singers. Practical experience will be obtained by working with members of the voice class. Four periods per week: one day will be a laboratory experience. 1 Course Credit

MUS 3500 Organ Literature I

Prerequisite: MUA 2210 (organ) or permission of instructor

Offered: Typically as student interest and faculty availability allow

A comprehensive introduction to organ literature, including the historical development of the organ. Characteristic forms, compositional styles, and the various "schools" of organ composition are traced from the Medieval through the Classic era. Representative organ works are heard live or through recordings made on historic instruments. Two periods per week. 1/2 Course Credit

MUS 350p Piano Literature I

Prerequisite: MUA 221p (piano) or permission of instructor

Offered: Typically as student interest and faculty availability allow

The study of the history and literature of piano music as it developed through the ages. Starting with the early national schools of keyboard music and progressing through the music of Beethoven, the course will deal with different phases of keyboard development, the more important musical forms, performance practice, and the significant piano music of the major composers of each era. Individual research, some informal performance in class by both the teacher and the student, as well as outside listening, will be included. Two periods per week. 1/2 Course Credit

MUS 3510 Organ Literature II

Prerequisite: MUS 3500 or permission of instructor

Offered: Typically as student interest and faculty availability allow

A continuation of MUS 3500, with works from the Romantic period through the 20th century being played, heard, and discussed. The development of 19th- and 20th-century organs and their influence on compositional style. Two periods per week. 1/2 Course Credit

MUS 351p Piano Literature II

Prerequisite: MUS 350p or permission of instructor

Offered: Typically as student interest and faculty availability allow

A continuation of MUS 350p including the Romantic composers through the present day. Schools of technique and 19th- and 20th-century pianists also will be studied. Two periods per week.

1/2 Course Credit

MUS 352 Vocal Literature

Prerequisite: MUA 326 (voice) or permission of instructor

Offered: Typically as student interest and faculty availability allow

A course to familiarize the student with the vocal forms, styles, and repertoire of Early English Baroque period; 18th-, 19th- and 20th-century Italian, French, German, British, and American art song literature; and sacred vocal literature. There will be comprehensive weekly listening and reading assignments and some singing. Four periods per week; one day will be a laboratory experience. 1 Course Credit

MUS 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for description.

1/2 or 1 Course Credit

MUS 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for description.

1 Course Credit

MUS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for description.

1 to 3 Course Credits

MUS 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for description.

1 Course Credit

MUS 398/498 Directed Study

Prerequisites: Will vary, but always-will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for description.

1 Course Credit

MUS 400 Senior Seminar

Prerequisite: Senior standing and permission of instructor

Offered: Typically every Spring Term

Senior Seminar is designed to be the capstone experience of the Music Program's core curriculum. As such, the seminar will focus on the research, study, practice, and implementation of the senior Music major's final project, which will consist of a final paper, and a performance or other public presentation. The seminar will function as a laboratory for students to present ideas and receive feedback as they work collaboratively and individually in completing their projects. As a culmination and integration of training and learning and as preparation for their professional future, this seminar provides an important support structure and learning community for Music majors. Course will meet once per week. NOTE: Required of all Music majors, and part of an optional course sequence for Music Education majors. Students in Music may take MUS 400 (1/2 credit) and MUA 400 (112 credit) to fulfill the Senior Seminar requirement if they perform a recital and pass a recital preview. Other Music majors with research-based projects, will take MUS 400 as a one-credit course. Music Education majors may choose to take the course as 112 or full credit, in consultation with their Academic Advisor.

1/2 to 1 Course Credit

Applied Music

MUS 100 Class Piano

Offered: Typically Fall and Spring terms

Designed for the College student who has had little or no formal keyboard instruction. Emphasis on reading and music fundamentals, and functional use of the piano. Two periods per week. Course Fee: \$10 per term.

1/4 Course Credit,

MUS 101 Class Piano II

Prerequisite: MUS 100

Offered: Typically Spring terms

Continuation of MUS 100, Class Piano I. It is designed to provide the students with the basic skills necessary to perform intermediate-advance piano repertoire, sight-read elementary-intermediate repertoire, and harmonize melodies. This course will provide the foundation for chordal and tonal harmony development, preparing the students for formal piano lessons. Two periods per week. Course Fee: \$10 per term.

1/4 Course Credit

MUS 102 Class Recorder

Prerequisite: Permission of instructor

Offered: Typically as student interest and faculty availability allow

An introduction to playing the recorder. Designed for the student who has little or no formal instrumental instruction. Emphasis will be placed on the fundamentals of music reading as well as the functional use of the recorder. Open to non-Music majors. Two periods per week. Course fee: \$10 per term.

1/4 Course Credit

MUS 103 Class Voice

Prerequisite: Permission of instructor

Offered: Typically Fall and Spring terms

First year of vocal study; open to all Berea College students. The class will meet as a whole two hours per week. In addition, students will be divided into smaller groups to rehearse with an accompanist. Some individual practice also is required. All students will have an opportunity to perform at the weekly performance class. Course Fee: \$10 per term.

1/4 Course Credit

Ensemble Music

MUS 130A Chamber Singers

*Prerequisite: Permission of instructor**

Offered: Typically Fall and Spring terms

A select 10- to 20-voice ensemble chosen by audition from the Concert Choir. The Chamber Singers perform at all Concert Choir appearances, sing off-campus in the region, and perform at College chapel services.

1/4 Course Credit

MUS 130B Jazz Ensemble

*Prerequisite: Permission of instructor**

Offered: Typically Fall and Spring terms

An instrumental ensemble that performs various styles of jazz for big band (swing, blues, bebop, and other types of jazz), including traditional cool, Latin, and jazz-rock fusion. The group performs on campus and throughout the region. This course includes a spring tour, and students will be expected to pay some portion of the costs. The fees will be announced on the first day of class and included in the syllabus. Students also may have to cover the cost of formal footwear.

1/4 Course Credit

MUS 130C Women's Choir

*Prerequisite: Permission of instructor **

Offered: Typically Fall and Spring terms

An auditioned ensemble open to all Berea College students capable of singing in the Soprano and/or Alto range. The choir performs a wide variety of choral music for women's voices, including sacred, secular, Broadway, and folk genres. Performances are at campus and community functions with several short, off-campus trips.

1/4 Course Credit

MUS 130D Recorder Ensemble

*Prerequisite: Permission of instructor**

Offered: Typically as student interest and faculty availability allow

A chamber group that specializes in music for this historic family of wooden flutes. Repertoire includes music from the medieval period to the present. Students learn to play and perform on several different sizes of recorder.

1/4 Course Credit

MUS 130E Chamber Music

*Prerequisite: Permission of instructor**

Offered: Typically as student interest and faculty availability allow

Open, by permission of the Music faculty, to Berea College students seeking to perform in small chamber ensembles, depending on available instrumentation and ability.

1/4 Course Credit

MUS 130F Bluegrass Music Ensemble

*Prerequisite: Permission of instructor **

Offered: Typically Fall and Spring terms

An ensemble of up to six members (guitar, banjo, fiddle, mandolin, bass, and lead singer). The ensemble specializes in traditional and contemporary bluegrass and old-time music. The group performs on and off campus.

1/4 Course Credit

MUS 130G Chamber Winds

*Prerequisite: Permission of instructor **

Offered: Typically Fall and Spring terms

An ensemble comprised of advanced musicians of the Wind Ensemble. The ensemble's repertoire ranges from 17th-century works for winds to newly commissioned works. The group performs two to three concerts per term. Students may have to cover the cost of formal footwear.

1/4 Course Credit

MUS 130H African/Latin Percussion Ensemble

*Prerequisite: Permission of instructor **

Offered: Typically Fall and Spring terms

An ensemble that performs a variety of rhythms based on the traditional drumming styles of the Caribbean, West Africa, and South America.

1/4 Course Credit

MUS 130I Contemporary Percussion Ensemble

*Prerequisite: Permission of instructor **

Offered: Typically Fall and Spring Term

An ensemble that includes drums, percussion, and a basic modern-rhythm section. The ensemble performs a range of contemporary styles including jazz, Latin, rock, funk, and world beat.

1/4 Course Credit

MUS 130J Country Dance Band

*Prerequisite: Permission of instructor**

Offered: Typically Fall and Spring terms

1/4 Course Credit

MUS 131 Concert Choir

*Prerequisite: Permission of instructor**

Offered: Typically Fall and Spring terms

Sixty-voice, mixed-choral ensemble open to all Berea College students; membership is gained by audition. Performs wide variety of musical styles, both sacred and secular, and in several languages. Regular attendance at all rehearsals and performances is required. Four periods per week. May be repeated for credit. Course Fee: \$25 (for Fall Term enrollments).

1/4 Course Credit

MUS 132 Wind Ensemble.

*Prerequisite: Permission of instructor**

Offered: Typically Fall and Spring terms

Open to all Berea College students; membership is gained by audition and demonstrated ability to sight read. Regular attendance at all rehearsals and performances is required. Meets twice weekly, performs at several College functions and in concert. Students may have to cover the costs of formal footwear. Membership in Wind Ensemble is a prerequisite to Stage Band membership. May be repeated for credit.

1/4 Course Credit

MUS 135 Black Music Ensemble (AFR 138)

*Prerequisite: Permission of instructor **

Offered: Typically Fall and Spring terms

Open to all Berea students, this ensemble specializes in the performance of African-American sacred music, particularly spirituals and gospel music. The ensemble meets twice weekly for one-and-one-half hours. Regular attendance is required at all rehearsals and performances including annual Fall and Spring

concerts, as well as several other programs each term. Membership by permission of instructor after audition. May be repeated for credit. Course Fee: \$15 (for transportation and robe cleaning).

1/4 Course Credit

Nursing

NUR 341 Essentials of Health Assessment and Nursing Practice I

Prerequisite: BIO 102

Offered: Typically every Fall Term

This course focuses on the assessment of health and the promotion of wellness throughout the lifespan through the nursing process, and American Association of Colleges of Nursing's (AACN's) *Essentials of Baccalaureate Education for Professional Nursing Practice*. This course includes four hours of theory/classroom experience and three hours of clinical nursing skills laboratory experiences each week. Appropriate standardized exam is required. Active Learning Experience. NOTE: Taken Fall Term of sophomore year. Course Fee: \$525 .

1 Course Credit

NUR 342 Essentials of Health Assessment and Nursing Practice II

Prerequisite: NUR 341

Offered: Typically every Spring Term

This course focuses on the a comprehensive understanding of the essential fundamental and/or foundational concepts necessary to provide holistic nursing care for clients throughout the lifespan through the utilization of the nursing process, as recommended by the American Association of Colleges of Nursing's (AACN's) *Essentials of Baccalaureate Education for Professional Nursing Practice*. The course provides the opportunity for students to apply their knowledge and skills learned in healthcare settings. Integration of health assessment, pathophysiology, and pharmacology will be emphasized. This course includes four hours of theory/classroom experience each week and 84 hours of clinical experience per term. Appropriate standardized exam is required. NOTE: Taken Spring Term of sophomore year.

Course Fee: \$46

1-1/2 Course Credits

NUR 350 Nursing Care of Adults I - Surgical

Prerequisites: NUR 342, BIO 222, and CFS 221

Offered: Typically every Fall Term

This course is the first of a two-course sequence, which deepens the student's understanding of the nursing care of adults experiencing alterations in health. Team building is emphasized in this course. Students will create an interdisciplinary discharge plan of care for a patient in the perioperative area. Students will create educational patient videos utilizing health literacy concepts. Clinical experiences, provide the student with the opportunities to care for clients in congruence with the American Association of Colleges of Nursing's (AACN's) *Essentials of Baccalaureate Education for Professional Nursing Practice*. This course includes four hours of theory/classroom experience each week and 84 hours of clinical experience per term. Appropriate. Standardized exam is required. NOTES: Taken Fall Term of junior year.

1-1/2 Course Credits

NUR 351 Nursing of Children and Adults With Psychiatric/Mental Health Needs

Prerequisites: NUR 342, BID 207, BID 222, CFS 221, CHM 113, and PSY 100

Offered: Typically every Fall Term

The focus of this course is on nursing care of children and adults with psychiatric/mental-health needs. Caring is the paradigm for this course and expands the concepts of critical thinking, nursing, person, environment, and health. Clinical experiences provide the student with opportunities to care for clients in congruence with the American Association of Colleges of Nursing's (AACN's) *Essentials of Baccalaureate Education for Professional Nursing Practice*. This course includes four hours of

theory/classroom experience each week and 84 hours of clinical experience per term. Appropriate standardized exam(s) may be required. **NOTES:** Taken Fall Term of junior year. Course Fee: \$101
1 Course Credits

NUR 352 Nursing Research

Prerequisite: NUR 342, CFS 221, BID 222, CHM 113, and PSY 100

Offered: Typically every Spring Term

The focus of this course is the application of statistical analysis as it relates to real world health issues. This course is firmly grounded in statistical methods. The course includes an in-depth examination of various forms of research (quantitative, qualitative, evidenced based practice), and methods of collecting and analyzing data. Students will focus on the use of evidence-based knowledge from nursing and the sciences as the basis for practice, as described in the American Association of Colleges of Nursing's (AACN's) *Essentials of Baccalaureate Education for Professional Nursing Practice*. Critical appraisal and use of nursing research studies as well as hypothesis testing will be a major emphasis of the course. Four hours in class each week. **NOTE:** Taken Spring Term of junior year. 1/2 Course Credit

NUR 353 Nursing Care of Adults II - Medical

Prerequisites: NUR 350

Offered: Typically every Spring Term

This course is the second of a two-course sequence that focuses on the care of adults experiencing alterations in health. This course emphasizes holistic nursing care. Students develop time management and prioritizing skills. Students are prepared to deliver professional presentations by participating in a poster session at a local healthcare institution. By the end of this course, students are prepared to deliver holistic nursing care to individuals with minimal assistance, preparing them for their Capstone course NUR 450. Clinical experiences provide the student with the opportunities to care for clients/families in congruence with the American Association of Colleges of Nursing's (AACN's) *Essentials of Baccalaureate Education for Professional Nursing Practice*. Four hours of class each week and 84 hours of clinical per term. Appropriate standardized exam is required. **NOTES:** Taken Spring Term of junior year. Course Fee: \$51. 1.5 Course Credits

NUR 354 Pharmacology

Prerequisite: CHM 113

Offered: Typically every Spring Term

The emphasis of this course is on the general principles of drug action that form the basis for understanding the actions of specific drugs. Students will be introduced to the benefits and risks of pharmacologic therapy, including complementary and alternative therapies. Upon completion of the course, students will demonstrate a basic understanding of pharmacology and be able to apply the knowledge of pharmacologic basics to nursing practice. Four hours in class per week. Appropriate standardized exam is required. **NOTE:** Taken Spring Term of the sophomore year. Course Fee: \$46
1 Course Credit

NUR 355 Pediatric Nursing

Pre-requisite: NUR 350

Offered: Typically every Spring Term

This course is designed as a comprehensive examination of the historical, cultural, spiritual, ethical, legal developmental and psychosocial components of nursing care of pediatric populations within a healthcare setting. Clinical experience will allow for application of concepts and theories to support holistic care of pediatric clients and their families. Clinical experiences provide the student with the opportunities to care for clients/families in congruence with the American Association of Colleges of Nursing's (AACN's) *Essentials of Baccalaureate Education for Professional Nursing Practice*. This course includes four hours of theory/classroom experience each week and 84 hours of clinical experience per term. Appropriate standardized exam is required. **NOTE:** Taken Spring Term of junior year. Course Fee: \$50.

1 Course Credit.

NUR 358 Child Health and Assessment (CFS) - no longer offered

Prerequisite: Permission of instructor

Offered: Typically alternate Fall Terms (next offered yet to be determined)

This course is designed as a comprehensive study of the health and safety needs of young children (birth through age 8) and the use of multiple assessments of children's development. Content will include prenatal and postpartum care; immunizations; chronic and acute health-care needs; safety issues and good health practices; legal and ethical considerations; evaluation of assessment instruments; and assessment report composition. Students also will become competent in the use of multiple assessments-such as observations, checklists, interviews, anecdotal records, play-based assessments, and norm-and-criterion-referenced tools as prescribed by state and national organizations and learned societies-and will be prepared to make professional decisions regarding screening, assessment, initial program planning, program modification, and program evaluation for young children. Emphasis will be placed on the culturally sensitive collaboration between the student and the families as part of a multi-disciplinary team. 20 field hours. Course Fee: \$15.

1 Course Credit

NUR 447 Nursing of Women and the Childbearing Family

Prerequisites: NUR 350 & 353; BIO 207; BIO 222; CFS 221; CHM 113; and PSY 100

Offered: Typically every Fall Term

The focus of this course is on nursing and women and the childbearing family, including women's health, antepartum, intrapartum, postpartum, and neonatal clients/families. Clinical experiences provide the student with opportunities to care for clients/families in congruence with the American Association of Colleges of Nursing's (AACN's) *Essentials of Baccalaureate Education for Professional Nursing Practice*. This course includes four hours of theory/classroom experience each week and 84 hours of clinical experience per term. Appropriate standardized exam is required. NOTES: Taken Fall Term of senior year. Course Fee: \$45.

1-1/2 Course Credits

NUR 448 Community Health Nursing

Prerequisites: NUR 350 & 353

Offered: Typically every Fall Term

This course focuses on integration and application of public-health and community based nursing care. Social, cultural, economic, and political influences on families, communities, and the healthcare system will be explored. Emphasis is on assessment and health planning with families and populations at risk for health problems. Clinical experiences provide the student with opportunities to care for clients in congruence with the American Association of Colleges of Nursing's (AACN's) *Essentials of Baccalaureate Education for Professional Nursing Practice* and the Standards of Community Health Nursing Practice. Community-based clinical practicum settings include a variety of health and social agencies in nearby Appalachian counties. This course includes four hours of theory/classroom experience each week and 84 hours of clinical experience per term. Appropriate standardized exam is required.

NOTES: Taken Fall Term of senior year. Course Fee: \$45.

1 Course Credit

NUR 449 Nursing Leadership

Prerequisite: NUR 448 (formerly NUR 348)

Offered: Typically every Spring Term

This course focuses on leadership theories and provides a comprehensive assessment of personal leadership traits. A major emphasis of this course is the development of leadership, prioritization and delegation skills in congruence with the American Association of Colleges of Nursing's (AACN's) *Essentials of Baccalaureate Education for Professional Nursing Practice*. This course includes four hours of theory/classroom experience each week and a variety of related clinical exercises per term.

NOTES: Taken Spring Term of senior year. Course Fee: \$45.

1 Course Credit

NUR 450 Synthesis in Nursing Practice

Prerequisites: NUR 350 and 448 (formerly NUR 347 and 348)

Offered: Typically every Spring Term

This capstone course focuses on the delivery of nursing care to a variety of clients with multiple, complex health problems. Students are expected to synthesize content from previous courses. In congruence with the American Association of Colleges of Nursing's (AACN's) *Essentials of Baccalaureate Education for Professional Nursing Practice*, students will have the opportunity to expand the following abilities: a) identify patterns, connections, and relationships in health and disease, b) make decisions about nursing care based on a thorough assessment, analysis, and exploration of potential consequences, c) use therapeutic communication, d) develop skills needed to design, implement, and evaluate therapeutic nursing interventions and e) demonstrate their ability to function as a member of an interdisciplinary team to deliver health promotion, maintenance and restoration. This course will provide students the opportunity to focus on issues related to the transition from the student role to a entry level registered nurse as well as to prepare them to successfully pass the NCLEX-RN examination. A clinical component will provide the opportunity for the student to master areas of recognized need. Four hours of class each week and 240 hours of clinical practicum is required. Appropriate standardized exams are required.

NOTE: Taken Spring Term of senior year. Course Fee: \$84.

2 Course Credits

NUR 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

NUR 390/490A or B Independent Study

Prerequisite: junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

NUR 395/495 Internship

Prerequisite: junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

NUR 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

NUR 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Peace and Social Justice

PSJ 100 Foundations of Peace and Social Justice

Offered: Typically every Fall Term

This course provides an introduction to the issues of peace and social justice, skills of social analysis, and actions for social change. This course addresses questions of poverty and inequality, the environment, and human rights. It surveys features of the modern world widely considered to be problematic, including the extent of serious poverty; the dynamics of gender and racial discrimination; questions of human rights; and

situations of war and other forms of violence. The emphasis, however, is not on the state of the world but on ways of understanding it: on histories and theories of causes, effects, and solutions. The course does not teach to a predetermined notion of "justice," or to a particular political point-of-view, and it is not inherently "pacifist." It does, however, *problematize* inequality, conflict, and violence, and it introduces students to resources for analysis of and engagement with the world. 1 Course Credit

PSJ 205: Peace and Social Justice: Theories and Practice

Prerequisite: GSTR 110

Offered: Offered every Spring (next offered 2013)

A study of the theory and practice of global activism for peace and social justice. Students will study social movement theory and significant nonviolent movements of the 20th and 21st centuries, including such movements as the Indian movement for self-rule led by Mahatma Gandhi, the American Civil Rights Movement, and the Anti-Apartheid Movement in South Africa. Students will also acquire practical skills in community organizing and movement-building, such as effective advocacy, strategic analysis, and facilitation. The course includes a service-learning project in which students apply what they have learned to an activist project with a local community organization. Religion Perspective

1 Course Credit.

PSJ 210 Diversity and Social Justice

Prerequisite: GSTR 110

Offered: Typically offered every other year

An exploration of the major types of diversity in the United States, focusing on the extent to which current theory and practice encourage or discourage social justice. Topics to be considered include theories and practices of racism, classism, sexism, heterosexism, ableism, ageism, and adultism. This experiential course also examines social actions aimed at creating a more diverse and just world.

Noncredit for students who completed it as PSJ 233 during Short Term. African Americans',

Appalachians', and Women's Perspective and Active Learning Experience

1 Course Credit

PSJ 225 Environmental Justice (AFRJAPS/SENSIWGS)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Spring 2013)

This course is an introduction to the study of Environmental Justice and issues associated with access to, and equitable sharing of, the products of a healthy environment, including clean water and air, healthy food, non-toxic communities, and environmental security. The history of the environmental-justice movement beginning with its foundations in the Civil Rights and Environmental movements will be studied, followed by a survey and analysis of current issues of environmental justice, particularly in relation to minority and poor communities in the United States and worldwide. Emphasis is placed on the role of women and African Americans as participants in the environmental-justice movement, and the analysis of environmental-justice issues in Appalachia. African Americans', Appalachians', and

Women's Perspective.

1 Course Credit

PSJ 305 Conflict Transformation

Prerequisite: GSTR 210 and one full credit course from one of the following areas: COM, PSJ, PSC, or SOC

Typically offered every other year Fall semester (offered Fall 2012)

Designed as a broad introduction to the philosophy and practice of conflict transformation, this course will familiarize students with various theoretical understandings of conflict. Beginning with the premise that conflict is a normal part of daily life, the course will examine conflict as an important dynamic in personal growth and social transformation, as well as a source of alienation, violence, and war. Students will explore conflict at a personal, communal, national, and international level, they will be encouraged to critically examine their underlying assumptions and beliefs about conflict and their patterns of response to conflict. An interdisciplinary approach drawing on both social science and spiritual perspectives will be used to explore conflict/communication styles, the role of power, systemic analysis, the dynamics of

change, and intervention in interpersonal, organizational, and inter-group conflicts. Noncredit for students who completed it as PSJ 110. Social Science Perspective 1 Course Credit

PSJ 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

PSJ 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PSJ 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

PSJ 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PSJ 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Philosophy

PHI 100 Introduction to Philosophy

Offered: Typically annually Spring 2014

An introduction to philosophy as disciplined inquiry about fundamental features of the world; powers and limits of mind as a way of knowing; and puzzles posed by living and living well. Attention to contemporary and classic texts selected from the history of philosophy.

1 Course Credit

PHI104 Morality, Law, and Philosophy

Offered: Typically annually (next offered Fall 2013)

An introductory course in philosophy through examination of contemporary moral and legal controversies, such as abortion, censorship, freedom of religion, equality, and civil disobedience, among others. Attention to classic and contemporary philosophic texts, relevant legal materials, and fundamental features of law and of morality. Practical Reasoning (PR).

1 Course Credit

PHI106 Introductory Reasoning

Offered: Typically annually Spring 2014

A course about principles and applications of correct canons of reasoning. Focus on identifying, evaluating, and constructing arguments using a variety of techniques. Practical Reasoning (PR).

1 Course Credit

PHI 204 Justice and Law in Classical Political Philosophy (PSC)

Prerequisite: GSTR 210

Offered: Typically alternate years (offered Spring 2013 and Spring 2015)

An examination of Greek, Roman, and Christian thinking about law, justice, and political community, including works by Plato, Aristotle, Cicero, and Thomas Aquinas, among others. Western History Perspective and Practical Reasoning (PR). 1 Course Credit

PHI 207 Human Rights, International Law (PSC)

Prerequisite: GSTR 210 or sophomore standing

Offered: Typically alternate years (next offered Fall 2014)

A philosophic examination of moral and philosophic issues involving the nature of law and rights, theories of just and unjust war, views of state sovereignty, and the international community. Thematic focus on legal and moral questions about uses of force in humanitarian interventions to address violations of human rights. Attention to classic and contemporary philosophic texts, relevant legal documents, and some basic structures of state and international order. Practical Reasoning (PR) and World Culture (Western) component of the International Perspective. 1 Course Credit

PHI 209 Freedom, Law, and the Modern State (PSC)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered 2013-2014)

An examination of some distinctive ways of thinking about law, freedom, and the state since the Reformation, including the social contract views of Hobbes, Locke, and Rousseau, utilitarianism, Marx, 19th-century historicism, and 20th-century pragmatism. Western History Perspective and Practical Reasoning (PR). 1 Course Credit

PHI 212 Science in the Contemporary World

Prerequisite: GSTR 210 or sophomore standing

Offered: Typically alternate years (next offered 2014~15)

An exploration of various topics in the philosophy of science. Possible topics include the nature of science and the scientific method, the implications of the results of contemporary natural sciences for humanity's place in the universe, and ethical questions that arise out of the scientific method and its results. 1 Course Credit

PHI 214 Approaches to Ethics

Prerequisite: GSTR 210 or sophomore standing

Offered: Typically annually (next offered 2013-14)

An examination of distinctive religious and philosophic ways of thinking about good, duty, virtue, and the nature of ethics. Attention to selected works of Thomas Aquinas, Aristotle, Kant, John Stuart Mill, and others. Practical Reasoning (PR). 1 Course Credit

PHI 215 Thinking About God

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered 2013-2014)

An exploration of topics in the philosophy of religion. Possible topics include arguments for and against the existence of God, the nature and attributes of a divine being, and the nature of faith and religious experience. 1 Course Credit

PHI 218 Symbolic Logic

Prerequisite: Completion or waiver of MAT 012

Offered: Typically alternate years (next offered 2013-2014)

A study of deductive systems, including sentential and predicate logic. Attention to syntax, semantics, and derivations in formal languages. Practical Reasoning (PR). 1 Course Credit

PHI 224 Free Will and Moral Responsibility

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered 2013-2014)

An introduction to fundamental issues about the nature of human choice, the conditions of moral responsibility, and relationships between the two, including philosophic investigations of causation and determinism, whether only humans are able to act other than they do, and the scope of moral responsibility. Attention to classic texts and contemporary philosophic research, writing and rigorous thinking about the metaphysics of free will and responsibility.

1 Course Credit

PHI 230 Reflecting on Nature

Prerequisite: GSTR 210 or sophomore training

Offered: Typically alternate years (next offered 2013-2014)

A course on philosophically informed thinking about the environment. Course explores ways of thinking about the environment, humanity, and other species, focusing on a few environmental problems illustrating fundamental puzzles about the biological sciences, about our responsibilities for nature and for future generations', and about the basis for valuing things human and non-human, living and inanimate.

Practical Reasoning (PR).

1 Course Credit

PHI 240 Practical Philosophy

Prerequisite: GSTR 210 or sophomore standing

Offered: Typically alternate years (next offered 2013-14)

An exploration of selected topics in applied and professional ethics, which may include issues in medicine, law, and business, as well as privacy, confidentiality, and other aspects of being a professional.

May be repeated for credit, provided topics differ. Practical Reasoning (PR).

1 Course Credit

PHI 250 Minds, Brains, and Machines

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Fall 2014)

An introduction to the philosophy of mind, examining such questions as whether there could be consciousness after bodily death, whether the mind is anything "over and above" the brain and central nervous system, whether human-built machine could ever think or be conscious. Attention to classic texts and contemporary philosophic research, writing, and rigorous thinking about the nature of mind and thought.

1 Course Credit.

PHI 305 Classical Philosophy

Prerequisite: One PHI course

Offered: Typically annually Fall 2013

An examination of philosophy in ancient Greece and the Roman world-texts, ideas, and figure. Emphasis will be placed on the works of Plato and Aristotle. Western History Perspective.

1 Course Credit

PHI 310 Philosophy of Descartes to Kant

Prerequisite: One PHI course

Offered: Typically alternate years (next offered Spring 2013) 2015

An examination of European philosophy in the 17th and 18th centuries. Emphasis on the epistemological and metaphysical views of Descartes, Hume, Kant, and Locke.

1 Course Credit.

PHI 315 Kant and his Philosophical Legacies

Prerequisite: One PHI course

Offered: Typically alternate years (next offered 2013-2014)

An examination of selected philosophical topics, themes, or movements in 19th- and 20th-century European and American philosophy, such as German idealism, American pragmatism, philosophy as analysis, phenomenology and existentialism, and post-modernism. May be repeated for credit, provided topics differ.

1 Course Credit

PHI 380 Philosophy Seminar I

Prerequisite: One 300-level PHI course or permission of instructor

Offered: Typically every Spring Term

Advanced study in a philosophic area, with an emphasis on careful reading of primary texts. Specific topic and prerequisites announced in the *Schedule of Classes* prior to registration. 1 Course Credit

PHI 480 Philosophy Seminar II

Prerequisite: PHI 380

Offered: Typically every Spring Term

Advanced study in a philosophic area, with an emphasis on careful reading of primary texts. Specific topic and prerequisites announced in the *Schedule of Classes* prior to registration. 1 Course Credit

PHI 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 to 1 Course Credit

PHI 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PHI 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

PHI 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PHI 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Physical Education and Health

PEH 100 Introduction to Lifetime Wellness

Offered: Typically Fall and Spring terms

Knowledge and physical activities to improve and maintain wellness in College and after. The course brings together several major components: assessment of physical fitness, swimming abilities for survival, study of current information about wellness, and physical activities. Meets three hours each week. Strongly recommended to be taken in the first year. 1/2 Course Credit

PEH 221 Health and Movement for the Young Child (no longer active)

Prerequisite: PEH 100

Offered: Frequency yet to be determined (next offered Spring 2013)

Study of the foundations of healthy behaviors and fundamental movement concepts in preparation for helping young children ages birth to 5 years become socially, emotionally, and physically well. Students will learn to structure age-appropriate movement experiences that encourage self-expression and social interaction as well as developing motor skills, and to convey important health concepts that will lay the foundation for lifelong health and wellness. 1 Course Credit

PEH 222 Health & Movement for the Elementary Child

Prerequisite: PEH 100

Offered: Frequency yet to be determined (next offered Spring 2013)

Study of fundamental movement concepts and the foundations of good health in preparation for helping students in pre-school through grade 5 understand and apply these concepts. In the first half of the term, students will learn to convey important health concepts through experiential learning. The second half of the term students will learn to structure age-appropriate movement experiences that encourage self-expression and social interaction, as well as developing motor skills. 1 Course Credit

PEH 330 Extended School Experience for Physical Education Majors and Health Minors

Prerequisites: Admission to the Teacher Education Program and satisfactory completion of a major or minor course that has a methods component, chosen from PED 244,245,246,247,250,362, or HLT 315

Offered: Typically every Summer Term

This course is designed as an advanced-level practicum to allow students an opportunity to integrate teaching skills and understandings in a school setting. This experience enables students to compile evidence that they meet the performance indicators required for admission to Student Teaching. In the course of the practicum, students will be expected to demonstrate the ability to teach in a manner that invites integration with their students, including the ability to formulate and use appropriate and effective questioning strategies. Students also will keep a journal of daily reflections that reveals the depth of their ability to learn from their own teaching. Students will be expected to plan and implement at least one unit (related sequence of lessons) of instruction, including: 1) a completed unit plan with goals and objectives; 2) a supporting rationale; 3) a detailed activity outline; 4) a statement describing modes of assessment and samples of student work; 5) an annotated bibliography of materials and texts for students; and 6) an annotated bibliography of readings done in preparation for teaching the unit. It is expected that students will draw from the materials created in this course for entries in their Education portfolios; therefore, a reflective self-assessment should be included with the unit and a statement of evaluation should be obtained from the cooperating teacher. 1 Course Credit

Physical Education

PED 125 Foundations of Physical Education

Offered: Typically every Fall Term

This course introduces the student to the discipline of physical education including key concepts and professional applications. Historical trends, contemporary issues, and ethical questions are addressed. Students explore information technology and movement analysis technology relevant to the discipline of physical education. 1 Course Credit

PED 233 Dance in Healing and Therapy

Prerequisite: GSTR 110 (or waiver) AND one entry-level course in ONE of the following: PSY, SOC, CFS, or NUR

Offered: Frequency and next offering yet to be determined

Dance in Healing and Therapy is designed to introduce the student to: 1) the ways dance and movement can lead to understanding of oneself and of others as thinking, feeling, and sensing beings, and 2) ways dance and movement can be used for personal development for people of varying psychological or

emotional abilities. The course is grounded in Laban Movement Analysis, a system widely used in dance and movement as healing and therapy. Meets PED 1/4-credit Activity requirement. 1 Course Credit

PED 244 Physical Education Activities for the Elementary Child

Offered: Typically alternate Fall Terms (next offered Fall 2012)

This course is a study of the theory and principles of movement for the elementary child with emphasis on the analysis of basic movement, motor development, games, sports, creative movement, and gymnastics. Selection and progression of skills in physical-education classes is based on knowledge about movement, learning theory, and development of the elementary child. Curriculum development principles for P-12 physical education will be investigated. Students will have the opportunity to work with children in both public school and community settings. 1 Course Credit

PED 245 Dance

Prerequisite: PEH 100 of permission of instructor

Offered: Typically alternate Spring Terms (next offered Spring 2013)

A comprehensive dance course dealing with basic-movement skills and creative-teaching approaches in folk, social, and creative dance and rhythmic gymnastics. Study of dance as an art form and the place of dance in education will be included. A portion of the class will be directly focused on dance for children, especially creative dance and elementary folk and square dance. ARTS PERSPECTIVE. NOTE: may be approved on a term-by-term basis to meet the Active Learning Experience. (Check the *Schedule of Classes* to see if this course is approved for the term in which the student plans to take the course). 1 Course Credit.

PED 246 Individual and Team Sports I

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate Fall Terms (next offered Fall 2014)

Explores tactics, skills, teaching, and coaching methods for badminton, basketball, bowling, soccer, tennis, and track and field. The philosophy of competition and coaching and practical officiating. Individualized teaching procedures will be used. This course will include a two-hour laboratory experience. 1 Course Credit

PED 247 Individual and Team Sports II

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate Fall Terms (next offered Fall 2013)

Explores tactics, skills, teaching, and coaching methods in archery, football, golf, softball, volleyball, and introduction to racquetball. The philosophy of competition and coaching and practical officiating. Individualized teaching procedures will be used. This course will include a two-hour laboratory experience. 1 Course Credit

PED 248 World Dance

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

Explores dance of African and Asian nations in cultural context and in the context of dance of other countries. The goal of the class is to increase understanding and appreciation of the diversity of ways in which individuals, communities, and groups define themselves in movement, and to develop awareness of dance as a form of cultural expression. At the conclusion of the course, students will examine ways in which African and Asian dance styles have influenced American dance and culture. The class will include dancing, video viewing, interviews with international students, reading, and writing of research and analysis papers. Arts Perspective and World Culture (Non-Western) component of the International Perspective. 1 Course Credit

PED 249 Dancing Through Space and Time

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

This course will introduce students to the historical, theoretical, and critical elements of dance. Students will explore the role that dance has played in society throughout history and in contemporary life. Experiences in class will include reading, discussion, video viewing, movement exploration, creative-process activities, and group presentations. Course Fee: \$5) Arts Perspective. 1 Course Credit

PED 250 Aquatics

Prerequisites: Successful completion of the swim screen (completed in PEH 100) requirement or one of the swimming courses

Offered: Typically alternate Spring Terms (next offered Spring 2013)

Provides the student with knowledge and skills to teach swimming basics and water safety to all ages, and provides the opportunity to earn the American Red Cross Water Safety Instructor certification. This course also provides training in community water safety and basic water rescue skills, as well as introduces water as a fitness and therapeutic medium. 1 Course Credit

PED 254: Principles of Coaching

Offered: Typically alternate years (next offered Fall 2013)

This course is a comprehensive introduction to the coaching profession. Emphasis is placed on sport at the high school and serious club levels. Consideration also is given to coaching at other levels, such as youth, recreational, interscholastic, and intercollegiate sport programs. The primary goal of the course is to develop and enhance students' knowledge and understanding of concepts and techniques of coaching and their application to achieving important objectives in working with athletes. The course and textbook combine sport science theory and research with the practical knowledge and methods of expert coaches in the five essential categories of coaching education and professional practice. Principles and practical applications are presented and thoroughly explained for each of these five important dimensions of coaching. NOTE: Noncredit for students who completed PED 286A in Spring 2008 or PED 286B in Spring 2010. 1 Course Credit

PED 260 Care and Prevention of Athletic Injuries

Prerequisite: BIO 101 or permission of instructor

Offered: Typically annually

A brief overview of the mechanism, prevention, management, and rehabilitation of athletic injuries. Practical experience includes the performance of simple taping procedures to the major joints of the body, along with the recognition of selected health problems related to athletics. In addition, time will be set aside for students to qualify for American Red Cross CPR Certification. Course Fee: Estimated \$8 1 Course Credit

PED 280 Adapted Physical Education

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate Spring Terms (next offered Spring 2014)

This course will focus on developing knowledge of current concepts and practices in adapted physical education. Course topics will include assessment, planning, and implementation of physical education activities for people with unique needs and abilities. The topic of working with special-needs populations will be approached from a developmental perspective using a "person-first" model. Students will be expected to acquire the skills necessary to understand typical and atypical motor performance, assess motor skills and fitness, evaluate performance, and create goals and objectives that can be implemented. Students will learn about the history of Adapted Physical Education and the current legislation in the field, as well as the legal framework for the Individual Education Program (IEP). 1 Course Credit

PED 305 Improvisation and Choreography

Prerequisite: Previous dance experience at the beginning/intermediate level is preferred, but not required

Offered: Typically alternate years (next offered in Spring 2014?)

Students will use movement improvisation to explore themes and ideas, will use movement discovered through improvisation to create choreography, and will engage in thoughtful reflection on the work they are doing. Arts Perspective. 1 Course Credit

PED 315 Motor Behavior Across the Lifespan

Prerequisite: BIO 101

Offered: Typically alternate years (next offered Spring 2014)

The focus of this course is the study of basic principles of motor learning, motor control, and motor developments as they relate to human voluntary movement. The course will involve applications of principles through observations and assessment of motor behavior and motor development from learning to performance (acquisition of skill), through the life span, from infancy to older adulthood. 1 Course Credit

PED 335 Integrated Biomechanics and Exercise Physiology 1

Prerequisite: Completion or waiver of MAT 012; and BIO 101

Offered: Typically annually (offered Fall 2012)

The goal of this course is to provide a foundation of knowledge to allow students to be able to apply the content to optimize human performance in sports and physical activity. The content will include an integration of sub-disciplines, such as Anatomical Kinesiology, Biomechanics, and Exercise Physiology. The course will be divided into two parts, the first being basic introductions to the content and the second being a more detailed study of the content as it applies to Aerobic Sports, Intermittent Activities, and Anaerobic Sports and activities. Throughout the course, students will be required to write exercise prescriptions, write technical papers (laboratory write-ups), interpret literature of the disciplines, and understand statistical methodology. This course serves as a prerequisite to Integrated Biomechanics and Exercise Physiology II. It is a required course for all Physical Education majors and recommended to any student interested in studying the science of movement. 1 Course Credit

PED 340 Integrated Biomechanics and Exercise Physiology II

Prerequisite: PED 335 and its prerequisites

Offered: Typically annually (offered Spring 2013)

This course is a continuation of Integrated Biomechanics and Exercise Physiology I. The goal of the course is more advanced applications of the principles and concepts learned in the previous course. Emphasis will be placed on the clinical aspects of the sub-disciplines including the areas of cardiac, pulmonary, metabolic, orthopedic and other prominent disease conditions, and appropriate activity interventions. Throughout this course, students will gain experience in using the HU-M-AN movement analysis and Dartfish software programs, and in creating and presenting in-depth material to external audiences (campus-wide, community, naive audiences). This course is required for Physical Education majors. Students who are interested in working in medical rehabilitation settings are encouraged to take this course. 1 Course Credit

PED 360 Advanced Athletic Training

Prerequisites: BIO 101 and PED 260

Offered: Typically every third year (next offered Spring 2015)

Will provide those students interested in athletic training, physical therapy, or other sports-medicine fields with advanced knowledge and skills relating to sports medicine. Content will include administrative tasks, legal aspects, pharmacology, therapeutic modalities, evaluation skills, and rehabilitation protocols, as well as other related topics. 1 Course Credit

PED 362 Teaching and Evaluation in Physical Education

Prerequisites: Completion or waiver of MAT 012; completion of two PED major courses

Offered: Typically alternate Spring Terms (next offered Spring 2013)

Curriculum design and theory and application of various teaching strategies and methods for Physical Education required for P-12 Certification majors. Introduction to basic statistical procedures. A review of evaluative techniques for individual and program accomplishments. 1 Course Credit

PED 186/286/386/486 Special Topics

Prerequisites: Determined by instructor Offered: Typically as student interest and faculty availability allow See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

PED 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PED 492 Physical Education Seminar

Prerequisites: BIO 101; either PED 335 OR 340 (or PED 343,353, or 364, no longer offered at Berea); and one additional P ED major course; junior or senior standing (junior preferred)

Offered: Typically every Fall Term

Emphasizes exploration of professional opportunities and scientific investigation in the field of physical education. Students explore areas of personal career interest, prepare a review of recent literature or a paper based on their primary research, and make a formal oral presentation. Discussion and evaluation of oral reports and presentations by resource persons are included. Required of all Physical Education majors.

1 Course Credit

PED 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credit

PED 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PED 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PED 200 Survival Swimming

Prerequisite: PER 100 or permission of instructor

Offered: Typically Fall and Spring terms

Designed for individuals who have had no previous experience in swimming or those whose skills are such that they would be at risk in most aquatic situations. The course emphasizes elementary strokes, survival flotation, treading, finning, sculling, water entry, and on-land rescues. Class meets three hours each week.

1/4 Course Credit

PED 203 Individualized Physical Education

Prerequisites: PEH 100 and approval of the Program Coordinator and College Health Service

Offered: Typically annually

Intended for those students who are unable, for medical reasons, to take any of the general PED activity courses. An individual program will be developed by the Physical Education and Health Program.

1/4 Course Credit

PED 204: Yoga (AST)

Prerequisite: PEH 100 or permission of instructor

Offered: Typically annually

A study of the asanas (poses) included in the practice of Hatha Yoga. The focus will be on connecting breath with movement, developing ease and comfort in poses and developing skills in using yoga as a tool for increased self-awareness. The content will include basic history of yoga, anatomy and physiology, meditation and asanas. Students will be required to purchase a yoga mat that they will keep throughout the term.

1/4 Course Credit

PED 205: Tai Chi CAST)

Prerequisite: PEH 100 or permission of instructor

Offered: Typically annually

Because of its movement and mind/body focus, the benefits of Tai Chi on dynamic balance, relaxation, and sustained mental attention have been recognized by those who engage in all kinds of activities. Students of Tai Chi will learn the Yang (short form) style of Tai Chi as well as the mind-body connection in accordance with the principles and techniques of Tai Chi to help enrich one's life. Tai Chi is scientifically designed to help all students maintain a healthy body through stretching, breathing and meditation.

1/4 Course Credit

PED 206 Concentration Intercollegiate Team Competition

Prerequisite: Permission of instructor

Offered: Typically varies, depending on sport

Limit of one PED 206 credit for a particular sport. Minimum requirement of 75-percent participation and special knowledge evaluation. Coaches will use their discretion relative to credit for the course and students who are injured. Students must register for the course in the term in which the majority of the sport will be offered and will receive a grade only for that term. Students must register by specific section as follows:

- 206 A. Soccer - Men
- 206 B. Soccer - Women
- 206 C. Tennis - Women
- 206 D. Cross Country - Men and Women
- 206 E. Swimming - Men and Women
- 206 F. Volleyball- Women
- 206 G. Basketball- Women (see above note)
- 206 H. Basketball- Men (see above note)
- 206 I. Track and Field - Men
- 206 J. Track and Field - Women
- 206 K. Tennis - Men
- 206 L. Baseball
- 206 M. Golf
- 206 N. Softball- Women

1/4 Course Credit Each

PED 206P Berea Middle Eastern Dance Ensemble

Prerequisites: One full year of membership in the Berea Middle Eastern Dancers (BMED) and permission of instructor

Offered: Typically fall and spring terms

Berea Middle Eastern Dance Ensemble is a study of the techniques, choreography and performance elements involved in Middle Eastern Dance. The purpose of this course is to provide serious dance

students with opportunities to develop their skills from novice or beginner to an intermediate or advanced level. Limit of one regular-term PED 206X for each student toward meeting the requirement for two 1/4 credit PED activity courses. 1/4 Course Credit

PED 206V Christmas Country Dance School

Prerequisites: None

Offered: Typically annually

Berea Middle Eastern Dance Ensemble course is a study of the techniques, choreography and performance elements involved in the art form. The students in this course will be provided with opportunities to develop their skills and understanding of stage performance and costuming.

1/4 Course Credit

PED 206Y Modern Dance Troupe

Prerequisites: One full year of membership in the Modern Dance Troupe and permission of instructor

Offered: Typically Fall and Spring terms

To receive credit, students must participate for one regular term, perform in the Modern Dance Concert, and participate in organizing and carrying it out. Limit of one regular-term PED 206Y for each student toward meeting the requirement for two 1/4-credit PED activity courses.

1/4 Course Credit

PED 206Z Country Dancers

Prerequisites: One full year of previous membership in Country Dancers and permission of instructor

Offered: Typically Fall and Spring terms

Participation is required for one regular term to receive credit. Membership selected by tryouts. Limit of one regular term PED 206Z for each student toward meeting the requirement for two 1/4-credit PED-activity courses.

1/4 Course Credit

PED 208: Aikido (AST) - no longer offered

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate years (no longer offered)

Aikido is a Japanese martial art emphasizing harmonious resolution to conflict. It is classified as a "soft" martial art, with the goal being personal transformation rather than harm to the opponent. Aikido movements are circular, fluid, and often dancelike. Students in this course will learn the philosophy of the art as well as basic techniques of attacking, falling, and responding to attacks.

1/4 Course Credit

PED 209 Intermediate Swimming and Water Games

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate years (next offered Fall20J3j)

This course is designed for individuals who already are comfortable with basic survival and swimming skills, in shallow and deep water. Students will refine strokes, preparing student for swimming for fitness or for novice competition. The course includes a variety of water sports and activities using acquired safety and swim skills. This course fulfills the swim competency requirement for graduation.

1/4 Course Credit

PED 211 Self Defense and Martial Arts I

Prerequisite: PEH 100 or permission of instructor

Offered: Typically as student interest and faculty availability allow

This course offers beginning-level instruction in traditional Kung-Fu forms consisting of offensive and defensive maneuvers in a series of block, kicks, strikes, and formal stances. The forms have practical self-defense applications, and will enhance mental and physical focus, balance, cardiovascular health, strength, agility, and coordination. Instruction also includes hand-to-hand defense techniques, ground defense, and information on concentration, relaxation, and assault prevention.

1/4 Course Credit

PED 213 Golf

Prerequisite: PEH 100 or permission of instructor

Offered: Typically every Fall Term

This course introduces the fundamental skills and knowledge to play golf at the beginning level. Students will learn basic swings, learn rules, etiquette, and strategies. They will develop and improve personal physical fitness and prepare for participation in golf as a lifetime sport. NOTE: Not open to students who have received credit for PED 206M. Course Fee: \$5. 1/4 Course Credit

PED 214 Badminton and Tennis

Prerequisite: PEH 100 or permission of instructor

Offered: Typically Fall and Spring terms

This course exposes student to the fundamental skills and knowledge of beginning badminton and tennis, and an appreciation for the lifetime recreational value of both sports. NOTE: Not open to students who have received credit for PED 206C or 206K. 1/4 Course Credit

PED 215 Aerobic Dance

Prerequisite: PEH 100 or permission of instructor

Offered: Typically Fall and Spring terms

Aerobic Dance develops aerobic fitness through rhythmic movements and dance. It emphasizes learning dynamic movement and doing whole body workouts. 1/4 Course Credit

PED 216 Body Recall

Prerequisite: PEH 100 or permission of instructor

Offered: Typically annually

Body Recall is an intergenerational and educational exercise experience. It is a program that is specifically developed to fit people of all ages and physical abilities, improving strength, flexibility, and balance. The slow and smooth exercises used help to reclaim range of movement that is pain free and possible, making living more pleasurable. Exercises are performed seated or standing, and make use of various equipment, such as balls, wands, and parachutes. 1/4 Course Credit

PED 217 Walking for Fitness

Prerequisite: PEH 100 or permission of instructor

Offered: Typically Fall and Spring terms

This course is designed for individuals who would choose walking as a form of exercise for lifelong physical fitness. Initially, the class will start their walking program at a moderate fitness level and later develop form that is appropriate for vigorous training. 1/4 Course Credit

PED 218 Weight Training

Prerequisite: PEH 100 or permission of instructor

Offered: Typically Fall and Spring terms

This course exposes the student to fundamental skills and knowledge of weight training and physical conditioning. Students learn to use equipment in the weight room and to develop a personal training program for lifetime fitness. 1/4 Course Credit

PED 219 Advanced Swimming and Aquatic Arts

Prerequisite: PED 209 or permission of instructor

Offered: Typically as student interest and faculty availability allow

This course is designed to give students an introduction to the theory and practice of Aquatic Art. This course seeks to enhance knowledge of, and appreciation for, the aesthetics of the body, water, and aquatic resources through artistic expression. Students will receive instruction in Aquatic Art vocabulary and performance. Following skill acquisition, students will apply their skills in the form of individual and group compositions. NOTE: Noncredit for students who took PED 308 during Short Term.

1/4 Course Credit

PED 220 Stress Management

Prerequisite: PEH 100 or equivalent; or permission of instructor

Offered: Typically Fall and Spring terms

Introductory course designed to expose students to a holistic approach to stress management, including basic principles, theories, and relaxation techniques to effectively manage personal stress, and to assist students in understanding and managing stress as it relates to personal health and lifestyle in the areas of stress sources, responses, reduction, burnout, and prevention. Students taking this course will assess their own stress levels, and design personal dynamic stress interventions optimizing health. The course meets three hours each week.

1/4 Course Credit

PED 221 Weight Management

Prerequisite: PEH 100 or equivalent; or permission of instructor

Offered: Typically annually

Introduction to weight management with an emphasis on the importance of physical activity and healthful nutritional habits throughout one's lifetime. Topics will include the following: obesity, low body weight, eating disorders, physiology of weight gain/loss, exercise as the key to weight management, healthy weight gain, weight-loss myths/quackery, influence of the media on body image, losing/gaining weight in a healthy or sensible way, and nutritional aspects of weight management.

1/4 Course Credit

PED 222 Water Fitness

Prerequisite: PEH 100 or equivalent; or permission of instructor

Offered: Typically Fall and Spring terms

Students will explore varied water activities/exercises and then choose the ones desirable for them that can lead to the intrinsic improvement of fitness components and promote the extrinsic benefits of water exercise. The exercises generally are done in a vertical position and always with the face and head out of the water in shallow water and/or with flotation in deep water. There will be information on fitness swimming, but students do not have to be able to swim to take the class.

1/4 Course Credit

PED 223 Outdoor Adventure Activities

Prerequisite: PEH 100 or equivalent; or permission of instructor

Offered: Typically every Spring Term

Introductory course designed to expose students to a variety of lifetime activities very different from traditional activities. Basic skills; equipment needs and selection; safety and etiquette; maintenance and repairs; and environmental awareness and minimal impact concerns will be presented. The types of activities offered will vary. PEH 223 activities include (but are not limited to) archery, cycling, canoeing, and cold-weather backpacking/hiking. Some of these activities will require participation in some day, overnight, and/or early-morning outings.

1/4 Course Credit

PED 224 Modern Dance I

Prerequisite: PEH 100 or permission of instructor

An introduction to contemporary concert dance technique and performance. Students will participate actively in dance classes three hours each week, developing facility of movement, and learning modern-dance technique and improvisation, as well as basic principles of choreography. The goal of the class is to develop dance skills and to prepare the student for future participation in modern dance as a lifelong activity.

1/4 Course Credit

PED 226 Racquetball

Prerequisite: PEH 100 or permission of instructor

Offered: Typically Fall and Spring terms

Students will develop racquetball knowledge and skills which will enable them to engage in this lifetime activity. They will learn offensive and defensive strokes, rules, and strategies.

1/4 Course Credit

PED 227 Movement for the Stage

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate years (next offered term Fall 2013)

Studies and exercises to aid the acting student or vocal performer in understanding the physical aspects of character: physical and emotional energy flow, body placement, use of space, and relationship with other performers. 1/4 Course Credit

PED 228 Social and Folk Dance

Prerequisite: PEH 100 or permission of instructor

Offered: Typically annually

An introduction to popular forms and styles of social dance and folk dance, and folk dance forms from around the world. Students will participate actively in Dance classes three hours each week, learning skills and styles of couple dances, such as waltz, swing, salsa, and polka, and of group dances, such as contra, square, and international dances. The goal of the class is to prepare students for a lifetime of participation in social and folk dance. 1/4 Course Credit

PED 229 Beginning Jazz Dance

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate Spring Terms (next offered Spring 2014)

This course is designed to introduce the beginning Dance student to jazz dance technique. The content of the course will include a brief look at the roots of jazz dance, jazz dance in relationship to jazz music, and the various jazz dance styles including popular, old-style, blues, and modern. 1/4 Course Credit

PED 230 Beginning Ballet

Prerequisite: PEH 100

Offered: Typically alternate Spring Terms (next offered Spring 2013)

This course is designed to introduce the beginning Dance student to ballet technique. The content of the class will include a brief history of ballet, basic information about ballet as an art form, using ballet as a means to improve body awareness and alignment, and using ballet technique. 1/4 Course Credit

PED 231 Self Defense and Martial Arts II

Prerequisite: PEH 100 or PED 211 or equivalent; or permission of instructor

Offered: Typically as student interest and faculty availability allow

This course offers intermediate-level instruction in traditional Kung-Fu forms consisting of offensive and defensive maneuvers in a series of block, kicks, strikes, and formal stances. The forms have practical self-defense applications, and will enhance mental and physical focus, balance, cardiovascular health, strength, agility, and coordination. Instruction also includes hand-to-hand defense techniques, ground defense, and information on concentration, relaxation, and assault prevention. 1/4 Course Credit

PED 234 Gymnastics

Prerequisite: PEH 100 or permission of instructor

Offered: Typically annually (next offered Spring 2012)

In this course, students will learn basic gymnastic skills, with emphasis on the development of personal skills and active participation in class. Students will be introduced to injury prevention and treatment, resistance training related to gymnastics, and proper warm-up techniques. 1/4 Course Credit

PED 235 Middle Eastern Dance

Prerequisite: Permission of instructor

Offered: Typically every fall semester

An introduction to the broad diversity of Middle Eastern Dances. Students learn the various expressions of Middle Eastern Dance: Folkloric dances from various parts of the Middle East as well as "Raqs Sharqi" (often called "Belly dance" in the West). Students learn the basic dance

movements of Middle Eastern Dance: hip movements, undulations, shimmies, isolations, *taqsim*, traveling steps, hand movements and facial expressions. Approximately 70% of the class time will be spent dancing. Students also learn theoretical background of Middle Eastern Dance: culture, music, geography, gender-roles, and costuming. Wellness Perspective.

1/4 Course Credit

PED 236 Volleyball and Recreation Games

Prerequisite: PER 100 or permission of instructor

Offered: Typically annually

This course provides the student with basic knowledge and practice of several recreational games, which may include volleyball, wally ball, disc golf, ultimate Frisbee, croquet, pickle-ball, racquetball, scooter soccer, and darts. It provides a variety of activities that the student may continue to enjoy with friends and family beyond the term in the pursuit of lifetime wellness. NOTE: Not open to students who have completed PED 206F.

1/4 Course Credit

PED 237 Hiking and Camcraft

Prerequisite: PEH 100 or permission of instructor

Offered: Typically Fall Term

This course is designed to familiarize students with the outdoors through a variety of activities. Hiking, backpacking, and camping techniques will be introduced along with lessons in survival skills.

1/4 Course Credit

PED 238 Fencing

Prerequisite: PEH 100 or permission of instructor

Offered: Typically annually

This course introduces students to good fencing skill performance, including attack and defense strategies, as well as safety and etiquette and the courtesies of fencing.

1/4 Course Credit

PED 259 Ballroom Dancing: Experiencing Cultural Expressions

Prerequisite: Permission of Instructor.

Offered: Typically alternate spring terms

An introduction to the history and practice of ballroom dances from various countries, such as the Waltz, Foxtrot, Cha Cha, and Tango. Students are expected to spend a majority of time learning to identify music appropriate for each dance while simultaneously learning and practicing the basic steps for each dance set by the standards used to judge American ballroom dance competitions. Students choose either leader or follower role, and partners will switch periodically.

1/4 Course Credit

PED 310 Advanced Swimming-Lifeguard Training

Prerequisite: PEH 100 and intermediate swimming proficiency OR permission of instructor

Offered: Typically alternate years (next offered 2011-2012)

This course guides refinement of swimming skills selected to increase preparedness for Lifeguard training. This course provides instruction of American Red Cross (ARC) Lifeguard Training skills (also including CPR for the Professional Rescuer, use of an Automated External Defibrillator and First Aid).

1/4 Course Credit

PED 332 Modern Dance II

Prerequisite: PEH 100 and PED 224 or permission of instructor

Offered: Typically alternate Fall Terms (next offered Fall 2014)

Designed for the student who has had some previous experience in Modern Dance (or has taken PED 224), this course will continue to explore the body as an instrument of expression and how to broaden one's movement range in doing so. The course will consist of experiences in body awareness, technique, improvisation/exploration, and performance.

1/4 Course Credit

Health

HLT 109 Comprehensive First Aid

Offered: Typically every Fall Term

A comprehensive course in the latest techniques and procedures in meeting accident and illness emergencies, such as stoppage of breathing, cardiac arrest, airway obstruction, severe bleeding, poisoning, fractures, burns, shock, heat or cold related emergencies, seizures, and sudden illness. Two American Red Cross certificates-Community CPR and Community First Aid and Safety-s-can be earned. Course Fee: Estimated \$25. 1 Course Credit

HLT 111 Human Sexuality

Offered: Typically alternate Spring Terms (offeredfall2012)

This class examines the biological, physiological, psychological, social, and ethical factors that affect human sexuality and interpersonal relationships. Through lecture, small- and large-group discussions, debates, audiovisuals, guest speakers, and directed reading assignments, the focus will be on reality-oriented sexual behavior and attitudes; needs and interests of college students; positive satisfaction, obligations, and responsibilities to self and others; sexual deviance; influence of society; and changing mores, roles, and lifestyles. 1 Course Credit

HLT 210 Health in Appalachia (APS)

Prerequisites: PEH 100 or permission; and GSTR 110 (or waiver)

Offered: Typically annually

Health in Appalachia explores various dimensions of the environment that impact the health of individuals and the communities in which they live within the Appalachian region. The overarching frameworks used in this exploration consist of Bronfenbrenner's Ecological Model and the Six Dimensions of Health Wellness Model. Specific topics addressed include: education, religion, industrialization, economic development, access to health care, sexuality, domestic violence, race and ethnicity, and substance abuse. This course is designed for the non-professional interested in the health needs of all people living in the Appalachian region and will include directed readings, lectures, discussions, films, guest speakers, and field trips. African Americans', Appalachians", and Women's Perspective. 1 Course Credit

HL T 215 Significant Issues in Health

Prerequisites: GSTR 110 (or waiver) and PEH 100 or permission of instructor

Offered: Typically every Spring Term

An introduction to the field of Health Studies and to possible careers in health. Students will study several significant problems in public health and begin to develop the knowledge and skills to understand and solve these problems, including a basic introduction to use of approaches, such as health education, health promotion, and primary prevention. 1 Course Credit

HLT 224 Addiction and Violence in the Family

Prerequisites: PEH 100 or permission; and GSTR 110 (or waiver)

Offered: Typically alternate Spring Terms (next offered Spring 2013)

This course explores family dynamics from a family systems perspective and examines how those dynamics are affected by addiction and violence. Topics covered include: the development of family theories; the structure of a family system; the impact on children and their future relationships; the interplay between substance abuse and the family system; domestic violence; and trauma healing. Prevention, intervention, and treatment options for addictions will be emphasized.

1 Course Credit

HLT 236 Women and Health (WGS)

Prerequisite: HLT215 OR a college course in Women's Studies OR permission of instructor

Offered: Typically alternate years

This course will help students understand women's health from a personal perspective and then connect that understanding to the health of women in other parts of the world. Emphasis will be on reproductive health, including pregnancy, birth, and breastfeeding, but we will also study issues such as environmental health, violence against women, and AIDS as a global health problem. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

HL T 315 Health Education and Promotion

Prerequisites: P EH 100; GSTR 110 (or waiver); and one other HLT course

Offered: Typically alternate Fall Terms (next offered Fall 2012)

This course will help students develop knowledge and skills toward becoming effective health educators for both adults and children in settings of P-12 schools, public health, community health, medical offices, and work sites. Emphasis will be on theories of health education leading to creative and effective teaching with a goal of healthy behavioral change. The course also will explore health promotion at a larger public health level. 1 Course Credit

HLT 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

HLT 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

HLT 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

HLT 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

HLT 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Physics

PHY 111 Introduction to Astronomy

Prerequisite: Completion or waiver of MAT 012

Offered: Typically every Fall Term

This course will explore topics in modern astronomy, including the formation of the solar system, the lives and deaths of stars, the structure of the galaxy, and the origin and evolution of the universe. Both lecture and lab will emphasize a hands-on approach to understanding the underlying physical principles that govern astronomy. Three one-hour lecture periods and one two-hour laboratory each week. Practical Reasoning with Quantitative Emphasis (PRQ) and Natural Science Laboratory Course. Course Fee: \$20. 1 Course Credit

PHY 217 General Physics I with Algebra

Prerequisite: Completion or waiver of MAT 115 (or concurrent enrollment)

Offered: Typically every Fall Term

First half of a two-course sequence stressing the basic concepts of physics and problem solving, suitable for the student intending to major in the physical sciences, as well as for students in the life sciences and arts who seek a liberal-arts course in classical and modern physics. Topics include Newtonian Mechanics, rotational motion, equilibrium, and fluids. Three one-hour periods each week and one two-hour laboratory each week. Natural Science Laboratory Course. 1 Course Credit

PHY 218 General Physics II with Algebra

Prerequisite: PHY 217; completion or waiver of MAT 125 (or concurrent enrollment); OR permission of instructor

Offered: Typically every Spring Term

Second half of the introductory physics sequence. Topics include oscillations and waves, electricity & magnetism, electric circuits, light and optics, and modern physics. Three one-hour periods each week plus one two-hour period for discussion or laboratory work, where appropriate. 1 Course Credit

PHY 225 Mathematical Methods in Physics I

Prerequisites: MAT 125 (or waiver), or concurrent enrollment OR permission of instructor

Offered: Typically every Fall Term

This course stresses applications of Mathematical methods and techniques to Physics that are needed in the physical sciences and engineering. Topics generally include: simple functions of applied math, quadratic and higher-power equations, simultaneous equations, matrices, determinants, eigenvalues and eigenvectors, geometry, vectors, complex numbers, series and approximations, differential operators, and simple integration. Four hours of lectures each week. 1 Course Credit

PHY 315 Introductory Physics I with Calculus

Prerequisite: MAT 135 (or waiver) or concurrent enrollment

Offered: Typically every Spring Term

This is the first half of a two-course sequence in classical physics with calculus. The focus of the first term is classical mechanics, with emphasis on the relationship between force, motion, and energy. Topics to be covered include kinematics, Newtonian dynamics, gravitation, conservation of momentum and energy, and rotational motion. Three one-hour lectures and one two-hour laboratory each week. Natural Science Laboratory Course. 1 Course Credit

PHY 316 Introductory Physics II with Calculus

Prerequisites: PHY 315 and MAT 225, or concurrent enrollment

Offered: Typically every Fall Term

A continuation of the introductory sequence in classical physics with calculus. The second term will focus on the phenomena of electromagnetism and waves. Topics include wave motion and interference, electrostatics, electric and magnetic fields, fundamentals of DC circuits, and electromagnetism. Three

one-hour lectures and one two-hour laboratory each week.

1 Course Credit

PHY 320 Modern Physics

Prerequisites: PHY 316 and MAT 135 (or waiver); OR permission of instructor

Offered: Typically every spring term

This course provides an introduction to topics in 20th century physics including relativity, introductory quantum mechanics, and atomic and nuclear physics. Other topics of interest may be covered as time allows. Three one-hour lectures and one two-hour laboratory session each week. 1 Course Credit

PHY 330 Mathematical Methods in Physics II

Prerequisites: PHY 225 (formerly PRY 325) and MAT 225; OR permission of instructor

Offered: Typically alternate years (next offered Spring 2014)

A course of applied mathematics and techniques often required in physics. Topics may vary, but will generally include partial differential equations and boundary value problems, Fourier analysis and integral transforms, complex integration, group representations, matrices, and determinants. Four hours of lectures each week. 1 Course Credit

PHY 335 Physical Optics

Prerequisites: PHY 316 or permission of instructor; AND MAT 225

Offered: Typically as student interest and faculty availability allow

The wave nature of light is presented and optical phenomena explained in terms of the model. Modern topics in optics revolving around the laser are included. Three one-hour lectures and one two-hour laboratory session each week. 1 Course Credit

PHY 341 Advanced General Laboratory

Prerequisite: PHY 316

Offered: Typically alternate years. (Next offered Fall 2013)

A laboratory course designed to give the student hands-on experience with important experimental techniques in modern physics. Topics may include vacuum systems; electronic design; experiments in contemporary physics; and independent research projects. One three-hour laboratory session each week. May be repeated for credit for sequential or differing learning experiences. 1/2 Course Credit

PHY 365 Thermal Physics

Prerequisites: PHY 315 and MAT 225; OR permission of instructor

Offered: Typically alternate years (offered Fall 2012)

An intermediate course covering classical thermodynamics and the methods of statistical mechanics. Topics covered include the first and second laws of thermodynamics with applications, statistical theory of entropy, and classical and quantum ensembles. Four one-hour lectures each week. 1 Course Credit

PHY 460 Electromagnetic Theory

Prerequisites: PHY 316 and MAT 330; OR permission of instructor

Offered: Typically alternate Spring Terms (next offered Spring 2013)

An introduction to the fundamentals of classical electricity and magnetism and electromagnetic waves. Emphasizing vector analysis and the laws of Coulomb, Faraday, and Ampere, leading to the development of Maxwell's Theory. Four one-hour lectures each week. 1 Course Credit

PHY 481 Classical Mechanics

Prerequisites: PHY 315 and MAT 330

Offered: Typically alternate years (next offered Fall 2013)

A course covering topics in Newtonian and Lagrangian Mechanics. Topics include rectilinear motion, oscillations, three-dimensional motion, central forces, generalized coordinates and momenta, and Lagrange multipliers. Four one-hour lectures each week. 1 Course Credit

PHY 482 Quantum Physics

Prerequisites: PHY 320 and 481; OR permission of instructor

Offered: Typically alternate Spring Terms (next offered Spring 2014)

An intermediate course in quantum mechanics, with applications. Topics include Schrodinger's equation, particle in a box, the harmonic oscillator, the hydrogen atom, perturbation theory, and the WKB approximation. Four one-hour lectures each week.

1 Course Credit

PHY 485 Introduction to Solid-State Physics

Prerequisites: PHY 315,316, and 320; OR permission of instructor

Offered: Typically as student interest and faculty availability allow

This course provides an introduction to the area of solid-state physics. Topics to be covered include crystal structure; diffraction of waves by crystals; thermal properties of solids; dielectric properties of solids; free electron model of metals; band theory; magnetism and magnetic resonance; and superconductivity. Four one-hour lectures each week.

1 Course Credit

PHY 186/286/386/486 Special Topics

Prerequisites: Determined by course instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

NOTE: Studies in a specialized area of instructor's and student's interest, such as solid-state physics, thermodynamics, quantum mechanics, optics, radiation physics, etc. Laboratory and discussion sessions will be stressed, with students largely responsible for the progress of the course. 1/2 or 1 Course Credit

PHY 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PHY 492 Physics Seminar

Prerequisite: Senior standing or permission of instructor

Offered: Typically Fall and Spring terms

A course centered around readings, experiments, and research on topics in physics approved by program faculty. The seminar emphasizes independent research conducted under the guidance of a faculty member, leading to a substantive research paper and presentation of research results to faculty and students in the program. Normally taken in the senior year, it is open to other advanced students with permission.

1/2 Course Credit

PHY 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

PHY 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic. Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PHY 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor
Offered: Typically on a limited basis as student interest and faculty availability allow
See Academic Programs and Courses in this Catalog & Student Handbook for general description.
1 Course Credit

Political Science

PSC 100 Introduction to the Study of Politics

Prerequisite: Completion or waiver of MAT 010

Offered: Typically Fall and Spring terms

A broad survey of the major questions and principles involved in the study of politics, Social Science Perspective,
1 Course Credit

PSC 110 American Government

Prerequisite: Completion or waiver of MAT 010

Offered: Typically Fall and Spring terms

An analysis of the basic structures, processes, and contemporary problems of American government. Social Science Perspective.
1 Course Credit

PSC 175 History and Politics of the Arab-Israeli Conflict (HIS)

Offered: Typically every other Fall Term

An overview of the Conflict, from the late 19th century to the present. This course covers the Zionist Movement, the Great Powers and the Ottoman Empire in World War I, the British Mandate for Palestine, the War of 1948, the Suez Canal Crisis, the Six-Day War, the Yom Kippur / 10th of Ramadan War, Camp David Peace Accords, the First Intifada, the Madrid Peace Talks, the Oslo Accords, the Second Intifada. Other subjects include human rights, international law, refugees, water, borders, international relations, the role of the USA, and Israeli and Arab political ideologies, leaders and parties. World Culture (Non-Western) Component of the International Perspective."
1 Course Credit.

PSC 201 American Political Thought (HIS)

Offered: Typically every third year (next expected to be offered 2015-2016)

A study of major theoretical traditions related to the design and history of American government and political culture.
1 Course Credit

PSC 202 Women and African Americans in Politics (AFR/WGS)

Prerequisite: GSTR 210

Offered: Typically alternate Fall Terms (next offered Fall 2014)

A study of the participation of women and African Americans in the American political process. Theories of representative democracy and an introduction to the historical struggles for equal rights provide a context for the investigation of contemporary electoral politics, governance, grassroots politics, and public policy. Students examine the progress of women and African American candidates, and of related public-policy issues, throughout the current election and its immediate aftermath. African Americans', Appalachians', and Women's Perspective. NOTE: In order to receive African and African American Studies or Women's Studies major or minor credit, the student's major project must focus on African Americans or women, respectively.
1 Course Credit

PSC 204 Justice and Law in Classical Political Philosophy (PHI)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Spring 2015)

An examination of Greek, Roman, and Christian thinking about law, justice, and political community, including works by Plato, Aristotle, Cicero, and Thomas Aquinas, among others. Western History Perspective and Practical Reasoning (PR). 1 Course Credit

PSC 207 Human Rights, International Law (PHI)

Prerequisite: GSTR 210 or sophomore standing

Offered: Typically alternate years (next offered Fall20J4)

A philosophic examination of moral and philosophic issues involving the nature of law and rights, theories of just and unjust war, views of state sovereignty, and the international community. Thematic focus on legal and moral questions about uses of force in humanitarian interventions to address violations of human rights. Attention to classic and contemporary philosophic texts, relevant legal documents" and some basic structures of state and international order. Practical Reasoning (PR) and World Culture (Western) component of the International Perspective. 1 Course Credit

PSC 209 Freedom, Law, and the Modern State (PHI)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered 2013-2014)

An examination of some distinctive ways of thinking about law, freedom, and the state since the Reformation, including the social contract views of Hobbes, Locke, and Rousseau, utilitarianism, Marx, 19th-century historicism, and 20th-century pragmatism. Western History Perspective and Practical Reasoning (PR), 1 Course Credit

PSC 220 Comparative Political Systems

Prerequisite: PSC 100 or permission of instructor

Offered: Typically annually

An analytical and comparative study of the structure and dynamics of various political systems in the world such as parliamentary, authoritarian, and totalitarian types, with emphasis on selected European countries and the European Union. 1 Course Credit

PSC 235 Research Methods

Prerequisite: MAT 104 or permission of instructor

Offered: Typically every Spring Term

An introduction to the methods and techniques of the scientific analysis of political phenomena. Includes study of research design and execution, paper writing, and the logic of quantitative analysis. 1 Course Credit

PSC 250 International Relations

Prerequisite: PSC 100 or permission of instructor

Offered: Typically every Fall Term

A study of the various forces, assumptions, considerations, and actors that define national interests, shape international relations, and promote world order. 1 Course Credit

PSC 314 American Constitutional Law

Prerequisite: PSC 110 or permission of instructor

Offered: Typically every third year (next offered 2014-2015)

An examination of the principles of American constitutional law . The course focuses on major opinions of the U.S. Supreme Court and of lower courts. Some descriptive and supplemental analysis of judicial and constitutional policy-making. 1 Course Credit

PSC 317 The Judicial Process

Prerequisite: PSC 110 or permission of instructor

Offered: Typically every third year (next offered 2013-2014)

The organization, functioning, and political role of the courts and the legal process in the United States. Detailed attention is given to the selection of judges, arguments about judicial activism and restraint, and the impact of courts on politics and policy. 1 Course Credit

PSC 319 Citizen Politics

Prerequisite: PSC 110 or permission of instructor

Offered: Typically every third year (next expected to be offered 2015-2016)

Study of citizens' behavior in politics. Topics include socialization, public opinion, political participation, political communications and persuasion, and voting behavior. The focus will be on participation in Western democracies, especially the United States. 1 Course Credit

PSC 322 Congress and the Presidency

Prerequisite: PSC 110 or permission of instructor

Offered: Typically every third year (next expected to be offered Spring 2013)

An examination of the role of Congress and the Presidency in the American political system, as well as the inter-relationship of the two. Major topics include the election of the President and members of Congress, the law-making process, and the execution of laws by the executive branch, as well as the powers of each branch. 1 Course Credit

PSC 325 Public Administration and Public Policy

Prerequisite: PSC 110 or permission of instructor

Offered: Typically every third year (next offered Fall 2013)

An introduction to the study of human behavior in public organizations covering such areas as the role of administrative agencies and commissions, the Office of Management and Budget, and other administrative bureaucracies that help determine the outcome of political decisions. Specific policy areas will be explored to discuss the role bureaucratic organizations play in the policy-making process of public administration. 1 Course Credit

PSC 330 State and Local Government and Politics

Prerequisite: PSC 110 or permission of instructor

Offered: Typically every third year (next expected to be offered 2014-2015)

An introduction to the structures, processes, and contemporary problems in the sub-national politics and intergovernmental relationships. 1 Course Credit

PSC 351 International Organizations

Prerequisite: PSC 250 (Formerly 350)

Offered: Typically alternate Fall Terms (next offered Fall 2013)

An analysis of the development and evolution of modern international organizations, and the problems and prospects of international integration. Focus on the United Nations system. 1 Course Credit

PSC 352 The Politics of Developing Nations

Prerequisite: PSC 220 (Formerly 320)

Offered: Typically alternate Spring Terms (next offered Spring 2014)

An analysis of the dynamics of politics and change in the Global South, focusing on issues and strategies for effecting political stability and development. World Culture (Non-Western) component of the International Perspective. 1 Course Credit

PSC 355 Foreign Policy Analysis

Prerequisite: PSC 250

Offered: Typically alternate years (next offered Fall 2014)

An examination of forces, structures, and processes that affect foreign-policy formulation. Emphasis on U.S. foreign policy. 1 Course Credit

PSC 360 International Political Economy (ECO)

Prerequisites: ECO 101 or 102

Offered: Typically every third regular term (next offered Fall 2012)

A study of the global economy and the interplay of collective interests, and governmental and non-governmental institutions in developing and modifying the rules that guide the global economic system of trade and commerce. This course introduces students to the body of international political economy (IPE) addressing the relationship between politics and economics in the international system. Discusses global economic political history and the development of theory guiding the study of IPE. Central topics include: international trade, foreign investment flows, international monetary relations, economic development, current crises, and global environmental affairs. 1 Course Credit

PSC 460 Problems in Politics

Prerequisite: Permission of instructor

Offered: Typically as student interest and faculty availability allow

An advanced seminar with readings and papers centered around various topics to be designated at the time of registration. May be repeated, provided the topic is not repeated. NOTE: See *Schedule of Classes* for topics and prerequisites. 1 Course Credit

PSC 480 Senior Research Seminar

Prerequisites for Political Science majors-Senior standing; PSC 235; and one PSC 300-level course in research area. Prerequisites for non-PSC majors-Two introductory PSC courses and one advanced PSC course and permission of instructor

Offered: Typically every Fall Term

An advanced seminar normally taken in the senior year, with readings and research papers centered around topics approved by the instructor(s). Students will be required to develop and carry out a mature research design, and to present and defend the paper both in writing and before the seminar. 1 Course Credit

PSC 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

PSC 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PSC 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

PSC 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PSC 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Psychology

PSY 100 General Psychology

Prerequisite: Completion or waiver of MAT 012

Offered: Typically Fall and Spring terms

A brief introduction to the science of psychology. Students will learn how scientific inquiry can be used to gain insight into human thought and behavior. Topics include: the structure and function of the brain, sensation, perception, problem solving, memory, social interaction, abnormal psychology and therapy. Social Science Perspective and Practical Reasoning (PR).

1 Course Credit

PSY 207 Principles of Learning with Laboratory

Prerequisite: PSY 100

Offered: Typically in alternate years

An examination of traditional learning theory as it has been developed through the use of operant and classical conditioning techniques. The course will draw heavily on research findings from animal studies but also will discuss the application of those findings to human behavior modification, psychopathology, addiction, and education. The laboratory will involve the application of conditioning techniques learned in the course

1 Course Credit

PSY 208 Cognitive Psychology with Laboratory

Prerequisite: PSY 100

Offered; Typically every Spring Term

This is a course about the construction, modification, and use of mental models. Topics will include sensation, attention (both selected and unselected), perception, memory (both explicit and implicit), language, concept formation, problem solving, and creativity. The laboratory will involve examination and application of the principles learned in the course.

1 Course Credit

PSY 209 Social Psychology with Laboratory

Prerequisite: PSY 100

Offered: Typically annually

Effect of social factors upon behavior, motives, attitudes, and personality; and psychological aspects of social groups and institutions.

1 Course Credit

PSY 210 Industrial/Organizational Psychology with Laboratory

Prerequisite: Completion of the Social Science Perspective & Practical Reasoning with Quantitative Emphasis (PRQ)

Offered: Typically annually

This course is designed to help students understand and appreciate the many ways in which psychological theories and procedures apply to the world of work and can be used to enhance human productivity and health. The course's emphasis will be on practical applications of psychology and will include topics such as personnel policies and administration, performance management, organizational theory, behavior and development, occupational health, and leadership.

1 Course Credit

PSY 211 Abnormal Psychology

Prerequisite: Any course that meets the Social Science Perspective (including PSY 100)

Offered: Typically every Spring Term

This course provides an introduction to the field of abnormal psychology and mental health. Students who take this course will have the opportunity, through class discussions, readings, and community-based service-learning experiences, to explore the history and complexities of mental health and mental illness, including the impact felt by individuals, families, and society. The course begins with a look at the history of mental illness, including the early theories that have fueled many of the current beliefs and stereotypes. Next, we survey the various methods for diagnosing and studying mental illness, with an emphasis on empirical methodology and theoretical conceptualizations. Finally, the course explores the various forms of mental disorders, paying particular attention to the numerous complexities involved in their prevention, identification, and treatment.

1 Course Credit

PSY 212 Behavioral Neuroscience with Laboratory

Prerequisite: PSY 100 or permission of instructor

Offered: Typically every Fall Term A study of the physiological basis of human and animal behavior.

Examination of traditional approaches to the study of behavioral neuroscience, as well as consideration of recent developments and relevance to both normal and abnormal behavior will be included. The laboratory includes neuroanatomical dissection and examination of a sheep brain; examination of human brain sections; several electrophysiological studies of neural and sensory functions using invertebrates; and measurement and analysis of human physiological responses to psychological variables, such as stress.

1 Course Credit

PSY 213 Child Psychopathology

Prerequisite: PSY 100 or CFS 130; OR permission of instructor

Offered: Typically every Spring Term

An introduction to the fundamental theories, research methods, concepts, and controversies within the field of childhood behavioral and emotional disorders. An emphasis will be placed upon current empirical and theoretical approaches to childhood disorders, including issues in their classification, etiology, and developmental course.

1 Course Credit

PSY 214 Ethology with Laboratory

Prerequisite: PSY 100 or BIO 100 or 110

Offered: As student interest and faculty availability allow

The naturalistic study of animal behavior viewed from an evolutionary perspective. An investigation of general principles of behavior shared by many animals as well as specific adaptations. Laboratory emphasizing careful observation and interpretations of the ways animals behave.

1 Course Credit

PSY 215 Health Psychology

Prerequisite: PSY 100

Offered: Typically every Spring Term

A course designed for Psychology majors, but with relevance for Nursing majors, Physical Education majors, pre-med and pre-dental students, and interested others. Interdisciplinary in content, the course examines how biological, psychological, and social factors interact with and effect health, chronic disease, health-promotion efforts, medical treatment, and stress management. Course content also will examine sound research principles, alternative or complementary treatments, and application techniques for health-habit changes.

1 Course Credit

PSY 217 Cross-Cultural Psychology

Prerequisite: PSY 100

Offered: As student interest and faculty availability allow

An exploration of the emerging field of cross-cultural psychology, this course will provide a critical and comparative study of cultural effects on human psychology. We will focus on the linkages between cultural norms and behavior and the ways in which particular human activities are influenced by different, sometimes dissimilar, social and cultural forces. Through this process students will gain a better understanding and appreciation of psychological universals (phenomena common to people of many cultures), as well as the breadth and depth of diversity in human thought and behavior across the world.

1 Course Credit

PSY 225 Statistics and Research Methods for the Behavioral Sciences I

Prerequisites: Completion or waiver of MAT 012 AND sophomore standing; GSTR 110 (or waiver); PSY 100 or sac 100; or permission of instructor

Offered: Typically every Fall Term

This course will introduce students to the integrated use of both statistics and research methods in the behavioral sciences, with particular emphasis on the field of psychology. An examination of the basic principles of scientific inquiry will be followed by a more intensive development of the techniques involved in conducting, analyzing, interpreting and reporting psychological research. Experimental and non-experimental methodologies will be introduced, with emphasis on the selection of appropriate designs for different research questions. Topics will include hypothesis testing, experimental and non-experimental design, validity and reliability, ethical principles, descriptive and inferential statistics, computer-based data analysis, graphical presentation of data, and the use of appropriate form and style in writing research reports. This course is required of Psychology majors and serves as a prerequisite for PSY 325, where students will continue to design and implement their own research study.

1 Course Credit

PSY 231 Social Gerontology

Prerequisite: Completion of the Social Science Perspective

Offered: Typically alternate years in Fall Terms

An introductory course intended for undergraduate students who are interested in learning more about aging and the field of gerontology. The course approaches aging from an interdisciplinary perspective, focusing on the physical, psychological, economic, and social changes that occur with age. This course also explores personal and societal attitudes toward aging and focuses on the diversity that is present in the older population. By the end of this course, students are expected to have a deeper understanding of the kinds of lives that older adults lead, with many of their stereotypes about the elderly having been challenged.

1 Course Credit

PSY 321 Personality Theory

Prerequisite: PSY 211

Offered: Typically alternate years in Fall Terms

Personality Theory is designed to introduce students to some of the major theoretical perspectives on what constitutes the "self," or those characteristics and traits that make us who we are. The field of personality, drawing from its philosophical traditions, attempts to answer such questions as "What is the nature of humankind?" or "How does one develop a healthy or unhealthy personality?" Questions like these have been the driving force behind psychologists' attempts at discovering a unified and comprehensive understanding of personality. Throughout the course, we will examine and discuss a wide range of both classical and contemporary perspectives on personality, focusing not only on the specific components of each, but also addressing the merits of each and their implications for larger theoretical debates and one's own personal experiences. Using a combination of critical thinking and thoughtful reflection, students are invited to consider the various theories and supporting evidence, formulating their own conclusions and applying each to their greater understanding of self and others.

1 Course Credit

PSY 323 Clinical and Counseling Methods

Prerequisite: PSY 211

Offered: Typically every Spring Term (next offered term yet to be determined)

Clinical and Counseling Methods is designed to provide undergraduate students with an overview of the science and practice of clinical and counseling psychology. The course will cover the history and development of the field, including methods of inquiry and major theoretical perspectives. Methods of assessment and intervention in clinical psychology will be examined through readings, lectures, discussions, and, when appropriate and available, film/video. Additionally, students will be encouraged strongly to apply critical thinking and analysis skills to some of the current and controversial issues that pervade the field of clinical psychology.

1 Course Credit

PSY 325 Statistics and Research Methods for the Behavioral Sciences II

Prerequisite: PSY 225

Offered: Typically every Spring Term

This course will provide an advanced introduction to the integration of both statistics and research methods in the behavioral sciences, with particular emphasis on the field of psychology. This course presumes that students possess prior understanding of the basic principles of scientific inquiry and the basic techniques involved in conducting, analyzing, interpreting, and reporting psychological research. Experimental and non-experimental methodologies will be reviewed, with continued emphasis on the selection of appropriate designs for more complicated research questions than those addressed in PSY 225. Topics will focus primarily on the use of inferential statistics and experimental designs, advanced concepts of computer-based data analysis and graphical presentation, and continued development of appropriate form and style used for written research reports. This course is required of all Psychology majors and serves as a prerequisite for PSY 424, where the students will design and implement their own research study. Practical Reasoning with Quantitative Analysis (PRQ).

1 Course Credit

PSY 420 History and Systems of Psychology

Prerequisites: PSY 100 and two other PSY courses

Offered: Typically every Fall Term

A study of the historical and philosophical development of psychological thinking from Descartes to the present. Western History Perspective.

1 Course Credit

PSY 424 Senior Research

Prerequisite: PSY 325

Offered: Typically offered Fall and Spring terms

Each student will design, conduct, and present a psychological experiment as a senior thesis.

1 Course Credit

PSY 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 to 1 Course Credit

PSY 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PSY 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

PSY 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

PSY 398/498 Directed Study

Prerequisites: Will vary, but always will include permission

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Religion

REL 101 Wrestling with God: An Introduction to the Scriptures

Offered: Typically annually

An inquiry into the basic stories and their texts in the Old and New Testaments. The course will investigate "Wrestling with God" as a dominant narrative theme in biblical literature. Assignments emphasize class reading of texts, several short essays, and preparation of a course workbook. Religion Perspective.

1 Course Credit

REL 109 Introduction to Christian Thought

Offered: Typically annually

A study of the basic Christian practices, beliefs, teachings, and concepts: God, creation, human nature, sin, evil, Christ, salvation, Holy Spirit, community or church, sacraments, ministry, Christian life and morality, last things, scripture, etc. This course will examine both the variety of Christian perspectives on, and the web of relationships between, these various beliefs and practices. Religion Perspective.

1 Course Credit

REL 117 An Introduction to World Religions

Offered: Next in Spring 2013

An examination of various religions with respect to selected themes, such as apocalypticism, sacred space, rites and worship, sacred texts and literature, culture and codes for living, and understandings of the divine. Religion Perspective and World Culture (Non- Western) component of the International

Perspective.

1 Course Credit

REL 126 Poverty and Justice

Offered: Typically alternate years (next offered 2013-2014)

A study of poverty and homelessness in Appalachia and the world in light of empirical evidence, sacred texts, and social and theological approaches to economic justice, combining experiential and theoretical learning to help students develop an understanding of economic injustice. Religion Perspective.

1 Course Credit

REL 132 Religions of China (AST)

Offered: Typically alternate years (offered Fall 2012)

A study of the principal religious traditions of China: Buddhism, Confucianism, and Daoism. The course includes readings in the classical primary texts of each tradition as well as attention to ritual and practice. Religion Perspective and World Culture (Non-Western) component of the International Perspective

1 Course Credit

REL 135 Religions of Japan (AST)

Offered: Typically alternate years (next offered Fall 2013)

A study of the principal religious traditions of Japan: Buddhism, Confucianism, and Shinto. The course includes readings in the classical primary texts of each tradition as well as attention to ritual and practice. Religion Perspective and World Culture (Non- Western) component of the International

Perspective.

1 Course Credit

REL 200 Myth, Symbol, and Ritual

Prerequisite: GSTR 110 (or waiver) or permission of instructor

Offered: Typically annually

An introduction to the academic study of religions, including interactions of myths, symbols, and rituals within religions, examinations of texts and literature, and considerations of cultural settings for religious belief and practice. Religion Perspective. 1 Course Credit

REL 202 Christians and Pagans in the Late Antique World (HIS)

Prerequisite: GSTR 210

Offered: Typically alternate Spring Terms (next offered Spring 2013)

An introduction to the political, social, cultural and religious world of late antiquity (c. AD 250-750), with particular attention to the emergence of Christianity and Islam in the context of the religious and philosophical diversity of the period. Western History Perspective and Religion Perspective.

1 Course Credit

REL 205 Introduction to the Old Testament

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

A survey of the literature, religion, and social history of ancient Israel, using modern historical-critical methods. Attention to understanding the Old Testament within the context of the history and culture of the ancient Near East. Religion Perspective. 1 Course Credit

REL 207 Introduction to the New Testament

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

A survey of the literature, religion, and social history of the early Christian movement, using modern historical-critical methods. Attention to understanding how the early Church's worship, teaching, and proclamation shaped the New Testament. Religion Perspective. 1 Course Credit

REL 210 Theology in the Arts and Media

Prerequisite: GSTR 110 (or waiver)

Offered: Typically as student interest and faculty availability allow

An examination of literary and artistic expressions of theological themes, such as creation, the human condition, and justification. Attention to texts and thought, creative dimensions, and examples of literary, artistic, and musical reinterpretations of themes. Arts Perspective. 1 Course Credit

REL 211 Women in Religion (WGS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered 2014-2015)

A study of the teachings on and participation of women in religion, as well as a study of the status and roles of women in several religious traditions, such as Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, or indigenous religious traditions. Religion Perspective and African Americans', Appalachians', and Women's Perspective. 1 Course Credit

REL 215 History of Christianity to 1600 (HIS)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered 2013-2014)

A general survey of the development of Christianity from apostolic times through the 16th-century Reformations. Emphasis is on Western Christianity, the development of beliefs, practices, and institutions, and Christianity's interaction with society and culture. Religion Perspective and Western History Perspective. 1 Course Credit

REL 218 Voices of Nonviolence

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered 2013-2014)

An introduction to the experience of nonviolence as expressed in the lives and religious writings of figures such as Mubarak Awad, Dorothy Day, Mahatma Gandhi, Thich Nhat Hanh, Ghaffar Khan, Chan Khong, Martin Luther King Jr., and Jean Vanier. Religion Perspective. 1 Course Credit

REL 221 The Protestant Reformation and its Legacies

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically alternate years (next offered Spring 2014)

Introductory study of the Christian theology and ethics of the Protestant Christian Reformations (1517-1650) and their legacies in modernity, post-modernity, and today. Examination of representative doctrinal, moral, social, and political issues; of the lives and teachings of various reformers; and of distinctive Protestant moral and doctrinal teachings as various Christian communities that have sought to reform Christianity in response to the challenges and change in the modern and postmodern worlds. Religion Perspective and Western History Perspective. 1 Course Credit

REL 223 Theologies of Liberation (WGS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2014)

An exploration of the rise of political liberation theology movements and their critiques of and novel contributions to traditional expressions of Christian theology. Focus on understandings of theory and praxis, race, gender, class dimensions of social analysis, and re-constructions of the concepts of Christ and God. Religion Perspective. 1 Course Credit

REL 225 Images of Jesus

Prerequisite: GSTR 110 (or waiver)

Offered: Typically as student interest and faculty availability allow

An examination of the life and thought of Jesus through study of the Gospels and contemporary historical texts. Exploration of continuing influence of Jesus by study of various forms of art and literature. Religion Perspective. 1 Course Credit

REL 227 Biblical Themes, Modern Life

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2014)

A thematically organized approach to studying biblical texts. Attention to ways the Bible may inform theological reflections on selected issues of modern life, such as creation and the environment, social justice, civil discourse, gender, and race, among others. Religion Perspective. 1 Course Credit

REL 235 Christian Social Ethics

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Spring 2014)

An introduction to methods and resources for ethical analysis, as well as an examination of the basic elements of Christian ethical reflection and a variety of ethical perspectives for decision-making. Special attention will be given to the correlation of theological and biblical insights with contemporary personal and social issues. Religion Perspective and Practical Reasoning (PR). 1 Course Credit

REL 240 Islam (HIS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered 2014-2015)

An examination of the doctrine, ritual, jurisprudence, and historical vision of Islam with an emphasis on historical and contemporary expressions of Islam. Special attention will be given to the historical origins of religious traditions which still are alive today, namely Sunni, Shi'ite, and Sufi Islam, as well as the

central features of Islamic theology and practice, including the Qur'an, the Hadith (the Traditions), legal reasoning, and Tafsir (Qur'an interpretation). Students study modern political and social expressions of Islam, including the political Islamic movements, popular piety, and women in Muslim society. The interrelations of Islamic traditions with Christian and Jewish traditions also will be studied. Religion Perspective and World Culture (Non-Western) component of the International Perspective.

1 Course Credit

REL 250 Judaism

Prerequisite: GSTR 110 (or waiver)

Offered: Typically as student interest and faculty availability allow (next offered Spring 2014)

Survey of the literature, thought, and culture of Judaism in its various periods. Emphasis placed on the literature of rabbinical Judaism and on those genre of literature which reinterpret Judaism in its cultural and historical contexts. Religion Perspective.

1 Course Credit

REL 260 Buddhism (AST)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2014)

A study of the history and diversity of Buddhist traditions, from the time of the Buddha in 5th-century BCE India to contemporary Buddhist communities in Asia and the West. Special attention will be given to the problems and prospects of Buddhism in relation to contemporary issues, such as gender and sexuality, ecological change, and the relationship between religion and politics. Religion Perspective and World Culture (Non-Western) Component of the International Perspective.

1 Course Credit

REL 308 Themes in Asian Traditions (AST)

Prerequisite: One AST course

Offered: Typically every other Spring Term (next offered Spring 2013)

A close study of selected texts, practices, or experiences of one or more Asian religious traditions. May be repeated for credit, provided topic varies from that studied previously. Religion Perspective and World Culture (Non-Western) Component of the International Perspective.

1 Course Credit

REL 309 Themes in Abrahamic Traditions

Prerequisite: One 200-level REL course

Offered: Typically alternate years (next offered 2013-2014)

A thematic and comparative study of the theologies, beliefs, and practices of three religions sharing roots in the figure of Abraham- Christianity, Islam, and Judaism. Attention to the roles of revelation and sacred text, monotheistic ideals, structures of authority, worship and ritual, ethical formation, and relation of the faiths to material culture and political order. Religion Perspective

1 Course Credit

REL 310 Advanced Old Testament Studies

Prerequisite: GSTR 310 or REL 205 or REL 207

Offered: Typically alternate years (next offered 2014)

A close study of selected legal, prophetic, or poetic books from the Old Testament period. Special attention given to the ancient Near Eastern material culture relevant to these books. Rotating topics. May be repeated for credit, provided topic varies from that studied previously. Religion Perspective

1 Course Credit

REL 311 Advanced New Testament Studies

Prerequisite: REL 205 or REL 207

Offered: Typically alternate years (next offered Fall 2013)

A close study of selected Gospels, epistles, or apocalyptic material from the New Testament period. Special attention will be given to the influence of Greco-Roman thought and Intertestamental Judaism on early Christian writings. Rotating topics. May be repeated for credit, provided topic varies from that studied previously. Religion Perspective

1 Course Credit

REL 312 Themes in Religious Thought and Ethics

Prerequisite: One 200-level REL course or permission of instructor

Offered: Typically alternate years (next offered Fall 2013)

An advanced study of selected texts, topics, issues, concepts, or themes in historical or contemporary religious thought and ethics. Course may be repeated for credit, provided topic varies from that studied previously. Religion Perspective. 1 Course Credit

REL 355 Seminar in American Religious History

Prerequisites: HIS 161 or HIS 162 or Permission of Instructor

A selective survey of the history of religion in North America from pre-colonial times to the present. Some of the themes explored include religion's role as a force for both national cohesion and division; the construction of-and relationship between-the sacred and the secular in American culture; the relationships between "outsider" religions and "Mainstream" religious practice; and the intersection of religion and American democracy. Noncredit for students who have completed this course as HIS 310. Religion Perspective and Western History Perspective. 1 Course Credit

REL 480 Seminar in Religion

Prerequisite: Senior standing or permission of instructor

Offered: Typically annually

This seminar will enable Religion majors to reflect on and integrate their studies within the program and the broad requirements of the core curriculum. The course also will provide opportunities for the student to take part in the interdisciplinary exploration of issues in Religious Studies. Topics considered will be chosen by the seminar in an effort to reflect the interdisciplinary nature of Religious Studies.

1 Course Credit

REL 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 to 1 Course Credit

REL 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

REL 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

REL 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

REL 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Sociology

SOC 100 Sociology of Everyday Life

Offered: Typically Fall and Spring terms

A practical introduction that relates theory, data, and analysis directly to an examination of the sociological imagination. Through readings and exercises, students will learn to apply the ways in which sociology can help them inquire into their own activities and relations with others. Social Science Perspective. 1 Course Credit

SOC 110 Problems of American Institutions

Offered: Typically annually

American society has been changing rapidly during the 20th century. The student will study the ways in which our family, religious, health, economic, political, and educational institutions have changed; why some of these changes are seen as problems and others are not; and the solutions that have been proposed by various groups in our society. Social Science Perspective. 1 Course Credit

SOC 132 Introduction to Race in America (AFR)

Prerequisite: Completion or waiver of MAT 010

Offered: Typically annually

In America's last five centuries, the concept of race changed from a literary meaning about the "race of humankind" toward popular folkways of seeing, describing, and categorizing individuals and groups based on pseudo-scientific explanations of physical and cultural traits associated with groups from various nations and regions. This course allows us to examine social patterns of these interracial and interethnic encounters and to analyze sociologically factors that help to maintain or change the domination or subordination established among the groups in our contemporary American society. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

SOC 215 Juvenile Delinquency

Prerequisite: GSTR 210

Offered: Typically as student interest and faculty availability allow

This course offers an examination of juvenile delinquency as a social construction and traces the development of the juvenile-justice system. Social theories of delinquency are analyzed, along with major intervention strategies. Issues of race, social class, and gender that often color our ideas of delinquent behavior are considered. 1 Course Credit

SOC 220 Cultural Anthropology

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

An examination of the role that culture plays in shaping the way human beings live in different societies. Emphasis on the variety of cultural knowledge that people use to give meaning to life, to understand one another, and to organize their behavior. Social Science Perspective. 1 Course Credit

SOC 223 Social Stratification and Inequity

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Fall 2013)

The sociological study of social class, status, and power. This course examines individual and structural explanations for the generation and maintenance of inequality in the United States, and the influence of stratification on individuals and groups. Topics include theories of stratification; correlates of social position for the upper class, middle class, working class, and the poor; social mobility; and functions/dysfunctions of social inequality. In contrast to race and gender stratification, this course focuses on social-class stratification in particular. A major goal of the course is to understand the significance of social class where before it may have been invisible. 1 Course Credit

SOC 325 Gender and Sex Roles (WGS)

Prerequisite: SOC 100 or PSY 100 or CFS 130 AND GSTR 210

Offered: Typically alternate years (next offered Fall 2014)

An examination of the behaviors and expectations of being male and female and the resulting relationships among men and women across the life cycle. Attention is given to current issues of gender roles and socialization, the family, education, employment, social class, and dynamics of social change.

1 Course Credit

SOC 327 Crime and Deviance

Prerequisites: SOC 100 and GSTR 210

Offered: Typically as student interest and faculty availability allow

An examination of the conditions under which deviance is defined and changes over time; how people come to define some persons as different, dangerous and/or immoral; how persons respond to being so defined; and the role of social control agents in the definition of deviance and the treatment of the deviant.

1 Course Credit

SOC 330 Community Analysis: The Appalachian Case CAPS)

Prerequisite: One introductory ECO, HIS, PSC, or sac course

Offered: Typically as student interest and faculty availability allow

This course is a study of the history, demography, social structure, and forces promoting social change in the Appalachian rural community. The student will learn a sociological approach to understanding the concept of community, its various systems, institutions, and groups. A community problem-analysis orientation will be followed. While studying the community in Appalachia, other community studies-American, European, and Third World-will be examined for comparative purposes, looking at content and method. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

SOC 335 Methods of Social Research

Prerequisites: Completion or waiver of MAT 012; and SOC 100; or permission of instructor

Offered: Typically every Fall Term

In this course, the way to convert ideas from other Sociology courses into testable hypotheses will be studied. It includes examining various types of research, research design, and methods of collecting data. The student will find and evaluate sociological materials, use descriptive statistics and computers as tools in organizing information, and write a research proposal. Practical Reasoning (PR).

1 Course Credit

SOC 340 Social Statistics for a Diverse Society

Prerequisites: Successful completion of both Practical Reasoning with Quantitative Emphasis (PRQ) and the Social Science Perspective

Offered: Typically as student interest and faculty availability allow

This course provides a basic introduction to descriptive and inferential statistics as used in social-science research. It assumes no previous experience with statistics. Students will learn how social scientists use statistics to describe social phenomena; compute and interpret basic statistics both by hand and using SPSS software; apply the logic of hypothesis testing; and generate and interpret figures and tables. The course will meet 4 hours per week. Practical Reasoning with Quantitative Emphasis.

1 Course Credit

SOC 341 The Sociology of Development and Social Change

Prerequisites: GSTR 310 and a course approved to meet Practical Reasoning (PR or PRQ)

Offered: Typically offered alternate Fall terms (next expected to be offered Fall 2014)

The sociology of development is concerned with sociological studies of causes and processes of social and economic change in the "developing" or Third World countries. This course looks at the social, demographic, and economic structures of nations. It is a study of the human dimensions of societal development. The topics include the history of the world since 1945, theoretical approaches to social change, comparative consideration of the economic and social structures of less-developed countries, and an examination of the relationship between development policy and factors of social change. World Culture (Western) component of the International Perspective.

1 Course Credit

SOC 348 Comparative Analysis of Formal Organizations

Prerequisite: One 100-level SOC or PSC or PSY or ECO or HIS course and GS7R 210

Offered: Typically as student interest and faculty availability allow

This study of formal organization begins with a review of the research on total organizations-organizations that serve as places of residence and work, such as the military and some health, social service, and educational institutions-and the research of non-total organizations, which include business and government. Of particular interest will be the impact of formal organizations on their members, as well as an inter-organizational look at social forces that lead to changes that affect organizations over time. From this latter perspective, the organizational structure, e.g., goals, authority, and resources, are examined in view of macro-societal forces, such as urbanization, class conflict, and ideologies (cultures and belief systems).
1 Course Credit

SOC 350 Theories Guiding Sociology

Prerequisite: SOC 100 and GSTR 210

Offered: Typically every Spring Term

An examination of the major theoretical perspectives in sociology: functionalism role theory, conflict theory, exchange theory, and symbolic interactionism. The student will review major sociological theories comparing them in terms of central concepts and explanations of how patterns of social organization are created, maintained, and changed.
1 Course Credit

SOC 360 Social Policy Studies and Evaluation Research

Prerequisite: One 100-level course that meets the Social Science requirement AND Junior or Senior Standing OR Permission of instructor

Offered: Typically as student interest and faculty availability allow

An examination of the use of sociological concepts and findings to address social problems, social policy, and programs promoting social change. Students will study techniques of social program evaluation, social program monitoring, needs assessment, and policy development. The course covers the historical background to applied sociology, issues in the use of sociological knowledge, and selected case studies of applied sociology in various settings.
1 Course Credit

SOC 436 Sociological Methods in Action

Prerequisite: SOC 335

Offered: Typically every Spring Term

This course is a continuation of *sac 335*. Actual field or empirical research will be done, as well as the planning, design, and completion of a research project. The work includes selecting samples, collecting the information needed to test hypotheses, using statistics to understand data, and writing and presenting to peers a report based on research.
1 Course Credit

SOC 461 Field Experience in Social Policy Studies

Prerequisites: SOC 360 and permission of instructor

Offered: Typically as student interest and faculty availability allow

An in-service training experience working as an applied sociologist with a program. Students will learn how to use critical thinking to analyze problems, develop research plans designed to provide solutions to these problems, carry out research in the field, critically analyze the data collected into findings, and write organized reports that set forth the policy implications of the findings. Under the academic direction of a staff member in the Sociology Program, the student will work in a setting that focuses on the creation and evaluation of social policy, e.g. business, service agency, community group, or governmental or judicial sector. In addition to spending the equivalent of a full day each week in the field placement, students will meet together for a weekly seminar.
1 Course Credit

SOC 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

SOC 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490; SOC 100, 335, and 350

Offered: Typically Fall and Spring terms

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

SOC 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

SOC 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

SOC 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Sustainability

SENS 100 Introduction to Sustainability and Environmental Studies

Prerequisite: Completion or waiver of MAT 012

Offered: Typically Fall and Spring terms

The concept of sustainability is explored as it relates to human-dominated and natural ecosystems at spatial scales from local to global. The major environmental problems facing the United States and the world are evaluated in terms of interactions among ecological, social, economic, and spiritual factors. Emphasis is placed on understanding the methods by which sustainability is evaluated and actions that can be taken to increase the resilience of a community or society. Local ecosystems will be used as a context for learning. Two lectures or laboratory/field exercises each week. Practical Reasoning (PR).

1 Course Credit

SENS 215 Sustainable Appalachian Communities (APS)

Prerequisite: GSTR 210

Offered: Typically every fall term

An introduction to the concept of sustainability as applied to communities in the Appalachian region and beyond. Ecological, social, and economic characteristics of Appalachia are reviewed as a context for case studies of communities within the region. A variety of approaches to sustainable development are explored. Students learn techniques for evaluating community sustainability, and participate in a service-learning or community-based research project that assists a local community to become more sustainable. African Americans', Appalachians', Women's Studies Perspective.

1 Course Credit

SENS 225 Environmental Justice (AFR/APS/PSJ/WGS)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Spring 2013)

This course is an introduction to the study of Environmental Justice and issues associated with access to, and equitable sharing of, the products of a healthy environment, including clean water and air, healthy food, non-toxic communities, and environmental security. The history of the environmental justice

movement beginning with its foundations in the Civil Rights and Environmental movements will be studied, followed by a survey and analysis of current issues of environmental justice, particularly in relation to minority and poor communities in the United States and worldwide. Emphasis is placed on the role of women and African Americans as participants in the environmental justice movement, and the analysis of environmental justice issues in Appalachia. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

SENS 310 Ecology

Prerequisite: A laboratory-science course

Offered: As faculty and student interest dictate An introduction to the basic ecological principles of terrestrial and aquatic systems. Emphasis is placed on experiential learning through field and laboratory studies. Principles of energy flow, material cycles, physiological ecology, population ecology, ecological succession, community ecology, and biological diversity are addressed. Hands-on exercises and experiments are integrated with lectures, discussion groups, student research projects, and computer exercises to demonstrate the process of scientific inquiry into ecological issues. Two class periods and one laboratory period each week. 1 Course Credit

SENS 320 Intro. to Geographical Information Systems

Prerequisite: Completion or waiver of MAT 115 or, 125; OR permission of instructor

Offered: Typically alternate years (offered Fall 2012)

An introduction to the basic principles of Geographical Information Systems (GIS), and the related technology of Global Positioning Systems (GPS), through demonstration and practice with GIS software. Examples from a variety of disciplines will be presented to illustrate how GIS are used to manage spatial data. Students will develop beginning competency in applying GIS software to example problems. Practical Reasoning with Quantitative Emphasis (PRQ). NOTE: Noncredit for students who have completed this course as SENS 386. 1 Course Credit

SENS 340 Introduction to Ecological Design

Prerequisite: SENS 100 or GSTR 332 or permission of the instructor

Offered: Typically every Spring Term

An exploration of the principles and practice of ecological design-the purposeful integration of human actions with the structures and functions of the natural world. Emphasis is placed on the application of ecological principles to the design of sustainable technologies, buildings, communities, and landscapes. Topics include solar energy, biomimicry, ecological machines, sustainable agriculture, ecological architecture and building, aquaculture, ecovillages, bioremediation, eco-industrial systems, and sustainable communities. 1 Course Credit

SENS 345 Ecological Architecture

Prerequisite: One of the following courses-SENS 340, ART 246, TEC 111 or TAD (formerly TEC) 130

Offered: Typically every third term (offered Fall 2012)

A survey of the developing field of ecological, or "green," architecture. Topics include innovative design methodology, alternative building materials, energy conservation and renewable energy sources, indigenous architecture, and ecologically engineered waste management systems. Material will be presented in the context of a dialogue between conventional and ecological architecture. Laboratory exercises are complemented by experiential learning through student involvement in campus and community building projects. 1 Course Credit

SENS 460 Capstone Course for Sustainability and Environmental Studies

Prerequisites: Declared SENS minor; SENS 100 and completion or concurrent enrollment in all other SENS minor requirements

Offered: Typically every Fall Term

Advanced analysis of a current sustainability and environmental issue integrating the diverse knowledge, experiences, and points of view that students have developed in the SENS minor. This course integrates elements of the natural sciences, social sciences, and humanities, and emphasizes specific problem solving as well as abstract thinking. Students are expected to process and synthesize complex concepts and ideas by drawing upon the fundamentals learned in SENS 100, the breadth gained from their selection of electives, and their specific skills and perspectives developed through the experiential component.

1 Course Credit

SENS 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

SENS 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

SENS 394/494' Experiential Learning Project

Prerequisites: SENS 100 and approval of the SENS Director

Offered: Typically as student interest and faculty availability allow

An experiential learning activity that normally occurs beyond the classroom setting, may be on or off campus, and will involve students in activities central to SENS learning objectives under the direction of a SENS faculty member. Successful completion of a SENS 395/495 (Internship), 150 hours in an approved labor position, or a student-faculty undergraduate research project may satisfy this requirement.

Noncredit Course

SENS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

SENS 397/497 A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

SENS 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Technology and Applied Design

TAD 100 Introduction to Technology and Applied Design

Offered: Typically Fall Term

A study of design problems such as provisions of clean water, healthy food, basic shelter and adequate sanitation for the majority of our planets population, the poor. Students will research design, and implement solutions designed to solve these problems using the simplest, least capital intensive means possibly by the use of appropriately scaled and implemented technologies, transportation and construction. **World Culture (Western) component of the International Perspective.**

1 Course Credit

TAD 115 Construction Technology

Offered: Typically every three terms

A study of the act and art of making buildings. Students will review the many different construction materials and technologies that influence and affect the processes of making a building. Specific content will focus on site design, foundations, framing, plumbing, building envelope and finishes, mechanical systems, insulation and alternative construction systems in residential building. Topics may include cost estimating, energy assessment and renovation, renewable energy systems, passive design, codes and zoning, multifamily housing, urban design, LEED and other building certification. 1 Course Credit

TAD 118 History of Technology

Offered: Typically annually

A study of the impact of technological advancements throughout history, including changes to social institutions, such as government, education, and religion. Emphasis is placed on the changes brought about by the exponential growth of technology since the Industrial Revolution. **Western History Perspective.** 1 Course Credit

TAD 130 Design and Documentation

Offered: Typically Fall and Spring Terms

This Course is a study of the fundamentals of engineering graphics using mechanical and computer-aided systems. The instruction will cover design and documentation practices for engineering and architectural applications. Some of the topics to be explored are sketching, orthographic projection, 3-D modeling, precision measurement, dimensioning, product of architectural design. Course Fee: \$10.

1 Course Credit

TAD 140 Design and Production in Woods

Offered: Typically Fall and Spring Terms (except in terms when TAD 340 is offered)

A study of design and production processes from the identification of a need through completion of production to an appropriate scale. Major concepts will include strategies for establishing design parameters, identification of potential design and production problems, identification and appropriate application of materials and processes, and production styles. At least one design will be developed as a member of a team. Specific content will focus on materials and processes, testing of designs/redesign, production engineering, and production scheduling and routing. This course will meet the active learning experience requirement. Course Fee: \$10.

1 Course Credit

TAD 180 Graphic Communication and Design

Offered: Typically Fall and Spring Terms (except in terms when TAD 382 is offered)

This course is an introduction to the materials, processes, computer applications and technology used in graphic design and communication. Laboratory activities will provide students with the opportunity to develop skills in areas such as print design, web design, digital photography and video production. Students will be expected to produce a professional looking portfolio of their work at the conclusion of the course. Course Fee: \$10.

1 Course Credit

TAD 202 Photography

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered term yet to be determined)

This course will explore the materials, processes, and techniques used in photography. Topics may include cameras, exposure, film processing, printmaking, and digital imaging. Throughout the course, consideration will be given to both the technical and aesthetic aspects of photography. Arts Perspective. Course Fee: \$15.

1 Course Credit

TAD 213 Appalachian Crafts (APS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually

A laboratory course involving work in various craft media including metal, wood, textiles, ceramics, and various native Appalachian materials. Through these various craft media, the culture of the Appalachian people will be examined focusing on factors affecting the life and work of the Appalachian craftsman, including aesthetics versus function, advancing technology, and outside influences. Through skill development, students will gain insight into the problem-solving ability, lifestyle, and ingenuity of the Appalachian people. Opportunities will be given for in-depth study and skill development. Arts Perspective and African Americans', Appalachians', and Women's Perspective. Course Fee: \$10.

1 Course Credit

TAD 245 Materials Process and Testing

Offered: Typically Fall and Spring Terms

A study of the physical and mechanical properties, common applications, and manufacturing processes associated with a variety of industrial materials found in consumer goods. Additional content will include an introduction to the material selection process, material testing procedures and the utilization of CAD software in predicting material reaction under varying load! stress conditions.

1 Course Credit

TAD 265 Electricity and Electronics

Prerequisite: Completion or waiver of MAT 012; or permission of instructor

Offered: Typically Fall and Spring Terms (except in terms when TAD 460 is offered)

A study of the theory and techniques necessary for electrical and electronic systems and their associated equipment. Students will learn how to identify, calculate, measure, create, and repair basic electrical and electronic systems. These skills will be applied to a selection of practical projects that will challenge the students understanding of the material and problem solving/troubleshooting abilities. Topics may include AC/DC circuits, resistance, power, various components, and use of electrical measuring instruments. Practical Reasoning with Quantitative Emphasis (PRQ). Course Fee: \$10.

1 Course Credit

TAD 275 Energy and Power Technology

Prerequisite: Completion or waiver of MAT 012; or permission of instructor

Offered: Typically Fall and Spring Terms (except in terms when TAD 470 is offered)

An applied survey of power-related systems and associated fields. This course intends to introduce students to the principles that govern energy generation and conversion as well as the utilization of energy by various power systems. The selected power system will include forms of mechanical, electrical, and fluid applications. Additionally, students will be invited to explore current issues related to energy consumption and power utilization on both a local and global scale. This will include special attention for alternative energies and other developing technologies. Course Fee: \$10.

1 Course Credit

TAD 330 Computer Aided Drafting and Design

Prerequisite: TAD 130 or permission of instructor

Offered: Typically every third term (offered Fall 2012)

An advanced study of engineering graphics and design using computerized systems. Emphasis will be placed on problem solving, three-dimensional technical drawings, and applications of CADD. Course Fee: \$10.

1 Course Credit

TAD 340 Studio in Woods

Prerequisite: TAD 140 or permission of instructor

Offered: Typically every third term (offered Spring 2013)

An advanced study of fine woodworking encompassing traditional and modern methods with an emphasis on design, aesthetics, and quality of construction. The course includes a study of furniture styles, ergonomic design, material properties, joinery, and traditional and contemporary construction methods. The structure of the course will provide additional emphasis on solution of specific problems of design and material applications. Course Fee: \$10.

1 Course Credit

TAD 345 Ecological Architecture

Prerequisites: One of the following SENS 340, ART 246, TEC III or TAD (formerly TEC) 130

Offered: Typically every third term (offered Fall 2012)

A survey of the developing field of ecological, or "green," architecture. Topics include innovative design methodology, alternative building materials, energy conservation and renewable energy sources, indigenous architecture, and ecologically engineered waste management systems. Material will be presented in the context of a dialogue between conventional and ecological architecture. Laboratory exercises are complemented by experiential learning through student involvement in campus and community building projects. 1 Course Credit

TAD 352 Quality Control

Prerequisite: TAD 130; MAT 105 OR completion or waiver of MAT 115; OR permission of instructor

Offered: Typically every third term (next offered Fall 2014)

This course is designed to include the study of the history and foundations of quality control; quality-assurance program elements; the research of program problems; sampling and sampling techniques; inspection devices; statistical control; techniques of statistical process control; elements of time and motion study; and the application of computers in quality-assurance programs. Practical Reasoning with Quantitative Emphasis (PRQ). 1 Course Credit

TAD 382 Advanced Graphics

Prerequisite: TAD 180 or permission of instructor

Offered: Typically every third term (offered Fall 2012)

An in-depth study in various methods of using computers to generate, manipulate, and present graphic images. Topics may include: graphic design, digital photography, digital illustration, desktop publishing, Web-page design, and multi-media production. Course Fee: \$10. 1 Course Credit

TAD 488 Research in Technology

Prerequisite: Senior standing or permission of instructor

Offered: Typically every Spring Term

An interdisciplinary capstone course in which students integrate knowledge and understanding they have gained during their undergraduate education in general education, elective and technology major courses. Students will work with the guidance of the faculty member to identify, research, develop and complete a project that reflects professional level understanding of their discipline, as well as the ability to effectively communicate through oral and written presentations.

TAD 455 Computer Integrated Manufacturing

Prerequisite: TAD 130; MAT 105 OR completion or waiver of MAT 115; OR permission of instructor

Offered: Typically every third term (offered Spring 2013)

A study of contemporary applications and integration of the computer in manufacturing processes, production systems, product performance simulations, and plant design. This course will include practical experience in CAD/CAM integration and robotics applications. Course Fee: \$10. 1 Course Credit

TAD 460 Digital Electronics

Prerequisite: TAD 265 or permission of instructor

Offered: Typically every third term (next offered term yet to be determined)

A study of electronics based on the analysis, function, and operation of selected discrete and integrated solid-state devices. Topics may include solid-state power supplies, discrete control devices, and linear and digital solid-state circuits. Course Fee: \$10. 1 Course Credit

TAD 470 Advanced Power and Energy

Prerequisite: TAD 275 or permission of instructor

Offered: Typically every third term (next offered term yet to be determined)

In-depth study in areas of engine performance, energy conservation, fluid power, and developmental power sources as they apply to industry and agriculture. Will include study of common methods of power transmissions. Course Fee: \$10. 1 Course Credit

TAD 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

TAD 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

TAD 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

TAD 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

TAD 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Theater

THR 105 Script Analysis

Offered: Typically Fall and Spring terms

An introduction to the kinds of drama written for theatre, with attention to foundational aspects of play analysis and dramatic criticism in Western drama. In addition to other plays and critical writings, the course will include analysis of the following plays and critical writings: *Oedipus Rex*, *Hamlet*, *Tartuffe*, *A Doll's House*, Aristotle's *Poetics*, and Stephen S. Stanton's essay "The Well-Made Play and the Modern Theatre." The course also will include analysis of at least two full-length plays representing the work of women and African-American dramatists.

1 Course Credit

THR 110 Apparel and Costume Design and Construction (CFS)

Offered: Typically as student interest and faculty availability allow

This course offers an introduction to the design and construction of basic garments and costumes. An exploration of the history of fashion and costume history, including the social, economic, cultural, and psychological factors influencing the selection and use of apparel and costumes. The course includes instruction in fibers and textiles; pattern drafting, design, fitting, and construction techniques; alterations

of commercial patterns; and care, repair, storage, and recycling of clothing and costumes. Will also examine consumer buying and technological innovations used in the fashion industry. Course Fee: \$15.
1 Course Credit

THR 115 Principles of Acting

Offered: Typically annually

Introduction to concentration, relaxation, observation, and imagination as the actor's basic tools. Students will explore acting as a process beginning with work on the self and extending that work to character development and acting in improvisations or scenes.
1 Course Credit

THR 124 Visual Concepts for the Stage

Offered: Typically annually

An introductory study of how theatre practitioners take a script from the page to the stage. The focus will be on reading and analyzing scripts to develop a production concept around which designs are formed, directing choices are made, and stage pictures are solidified. Within this broad focus, visual representations will be created, essays will be written, and discussions will take place. Additionally, students will learn to work within a collaborative team.
1 Course Credit

THR 135 Film Production

Offered: Typically annually Fundamentals of filmmaking including the use of video equipment and a focus on film aesthetics. Emphasis will be on the production process of filmmaking that includes writing, producing, shooting, directing, and editing a five-to-seven-minute film.
1 Course Credit

THR 213 First Theatre in Human Cultures

Prerequisite: THR 105

Offered: Typically annually

Study of the first theatres and extant play scripts of selected human cultures. Included in this study will be representative cultures located in Africa, the Americas, Asia, and Europe. Focus on research and writing, including one research-based essay and an annotated bibliography.
1 Course Credit

THR 218 Drama and Theatre for Teachers - no longer offered

Offered: Typically as student interest and faculty availability allow

The theory and practice of drama and theatre in secondary education. In addition to traditional curricular and co-curricular uses of drama and theatre in secondary education, particular attention will be directed to the theory and practice of using the means, forms, and methods of drama and theatre for non-dramatic or non-theatrical ends. Examination of proven British and European practices will be included.
1 Course Credit

THR 220 Seminar in Design and Production

Offered: Typically annually

A study of the basic practices and techniques used in theatrical design and production. The seminar will alternate between the study of scenic and lighting effects and the make-up and costume design. May be repeated one time for credit, provided the student takes both *Scenic and Lighting Design and Production* and *Theatrical Make-up and Costume Design and Production*. **NOTE:** While there are no prerequisites, students are advised to take THR 124 before enrolling in this course.
1 Course Credit

THR 227 Voice and Diction

Offered: Typically alternate years (next spring 2014?)

Introduction to the theory and practice of voice production. Individual exercises in breath control, relaxation, phonation, resonance, and voice quality. Concentration on phonetics and phonetic spelling. Exercises in using voice projection and optional diction exercises for auditioning. Extensive drill-practice in the study of American-English sound.
1 Course Credit

THR 308 Seminar in Theatre History

Prerequisite: THR 105

Offered: Typically annually

An advanced seminar in which students will study the theatres and play scripts with a focus on close reading, research, and writing. The focus of the seminar will alternate among: Theatres in the History of the United States; Theatres in the English Renaissance; and Theatres and the Rise of Mass Media. May be repeated for credit, provided the seminar topic differs from those previously studied. 1 Course Credit

THR 317 Principles of Directing

Prerequisites: THR 105; AND THR 115; AND THR 213 (preferred) or THR 308

Offered: Typically alternate years (next offered Spring 2013)

Study of directing processes, including history and contemporary directing theories. Students will read about directors and directing theory, critique productions, and do exercises in blocking, improvisation, and scene work. 1 Course Credit

THR 321 Seminar in Theatre Management

Prerequisite: THR 105 and junior standing or above OR permission of instructor

Offered: Typically annually

A course designed for the in-depth study of one of the various areas of management relevant to the theatrical and performing arts. The seminar will alternate among: Career Management, Stage Management, and Theatre Administration. May be repeated for credit, provided the seminar topic differs from those previously studied. 1 Course Credit

THR 327 Seminar in Advanced Acting

Prerequisite: THR 105 and THR 115 and junior standing or above OR permission of the instructor

Offered: Typically alternate years (next offered Fall 2012)

An advanced acting class geared toward students who are pursuing graduate study or a career in the performing arts, with an emphasis on acting. The seminar will alternate between a focus on Contemporary Acting Styles, emphasizing 20th and 21st century acting methods, and Period Acting Styles, emphasizing historical acting styles required of pre-modern drama. May be repeated one time for credit, provided the student takes both Contemporary and Period styles. 1 Course Credit

THR 331 Film Production: Documentary Film

Prerequisite: THR 135

Offered: Typically alternate Spring terms

The seminar will feature exercises in: planning; oral history and interview techniques; one- and two-camera shooting; field sound recording; and specialized editing assignments. These exercises will be integrated with documentary screenings, readings and discussion, and will be combined in a final video project. Instruction in the course presumes that students have basic knowledge of camera and video work from the required Introduction to Film Production course (THR 135). **Arts Perspective**

1 Course Credit

THR 332 Film Production: Feature Film

Prerequisite: THR 135

Offered: Typically alternate Spring terms

To facilitate our students' training and development in the skills relevant to modern media production, we offer an advanced seminar and workshop. This course will instruct students in both the "how" of producing feature film, as well as provide grounding in the "why" of filmmaking. Student will gain and refine practical skills in the uses and techniques of several important visual technologies, such as videography and video editing; as well as techniques technologies more specific to fiction or feature film production, such as set design, lighting, and the direction of actors. A further aim of the course is that students will also gain insight into why and when to employ these various techniques to successfully

reach and/or entertain an audience. Instruction in the course presumes that students have a basic knowledge of camera and video work from the required Introduction to Film Production course (THR 135). **Arts Perspective** 1 Course Credit

THR 481 Senior Theatre Project

Prerequisite: Senior standing only

Offered: Typically annually

Development and presentation of a special theatre project centered on the student's particular interests in theatre and demonstrating the student's integration of the entire theatre curriculum. To be taken during the first term of the senior year. 1 Course Credit

THR 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic programs and courses in this Catalog for general description

1 Course Credit

THR 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

THR 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

THR 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

THR 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

Women's and Gender Studies

WGS 102 Western Civilization II: A Study in Gender (HIS)

Offered: Typically every spring term

An examination of the experiences of women and men to determine how gender roles have contributed to and shaped by the religious, political and social history of "the West." This course is arranged topically and chronologically from the Renaissance through the success of the parity movement in France at the beginning of the 21st century. Topics to be considered include: religious reform; scientific understandings of the body; national revolutions; industrialization and the sexual division of labor; widening political opportunities; socialism, feminism; empire-building; and warfare. Western History Perspective and African American, Appalachian, and Women's Perspective. 1 course credit

WGS 111 Human Sexuality (HLT)

Offered: Typically alternate Spring terms (next offered

This class examines the biological, physiological, psychological, social, and ethical factors that affect human sexuality and interpersonal relationships. Through lecture, small- and large-group discussions, debates, audiovisuals, guest speakers, and directed reading assignments, the focus will be on reality-oriented sexual behavior and attitudes; needs and interests of college students; positive satisfaction, obligations, and responsibility to self and others; sexual deviance; influence of society; and changing mores, roles, and lifestyles. 1 course credit

WGS 124 Introduction to Women's and Gender Studies

Offered: Typically Fall and Spring terms

What is Women's and Gender Studies? What is feminism? What have been the historic roles of women in the United States? In the world? How are women's experiences similar? How do they differ? How do class, race, and ethnicity shape gender development? Any student who has ever asked her/himself any of these questions can begin to explore answers in this introductory course in Women's and Gender Studies. The interdisciplinary field of Women's Studies draws from the often neglected experience of women in order to describe, analyze, and more fully understand the gendered world order. Students will read several primary-source selections from each of the different eras of the international feminist movement, as well as complementary texts in women's history and literature. This introduction to Women's and Gender Studies will engage students in a deeply personal and academic journey that involves classroom discussion of individuals' perceptions and critiques, and journal responses to both discussion and reading African Americans', Appalachians', and Women's Perspective. 1 Course Credit

WGS 127 Riding the Waves of Feminism

Offered: Typically alternate years (next offered Fall2014?)

This course will analyze the various "waves" of feminism, (First, Second, and Third) as the wave metaphor indicates that each moment in feminism has flowed naturally into the next moment. The course will spend a significant amount of time analyzing the positions of women of color, especially African American women, in the Second Wave, which ushered in the contemporary feminist movement, and how the critiques of various women of color and women from other marginalized communities (lesbians, women of lower-socioeconomic classes) challenged mainstream, white, middle class feminism to recognize the different positionalities of all women. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

WGS 135 African-American Women Writers (AFR/ENG)

Offered: Typically alternate years (next offered Spring 2012)

How have African-American women writers coped with invisibility? How have they emerged from silence and created visions of identity and culture? This course will examine the writings of African-American women as a separate and distinct cultural group and the ways in which their writing is an expression of the culture and a historical record of its development. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

WGS 202 Women and African Americans in Politics (AFR/PSC)

Prerequisite: GSTR 210

Offered: Typically Fall Terms

A study of the participation of women and African Americans in the American political process. Theories of representative democracy and an introduction to the historical struggles for equal rights provide a context for this investigation of contemporary electoral politics, governance, grassroots politics, and throughout the public policy. Students examine the progress women candidates, and of related public-policy issues, throughout the current election and its immediate aftermath. African Americans', Appalachians', and Women's Perspective. NOTE: In order to receive African and African American Studies or Women's and Gender Studies major or minor credit, the student's major project must focus on African Americans or women, respectively. 1 Course Credit

WGS 207 Family Relations (CFS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically Fall and Spring terms

An introductory survey of the psycho-social aspects of family science, including an examination of functions and variations over the life cycle, diverse family forms, gender roles and power, family resources, healthy intimate relations and personal communication, and issues of parenthood. This course balances theory and personal application. African Americans', Appalachians', and Women's Perspective and Social Science Perspective. 1 Course Credit

WGS 211 Women in Religion (REL)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2013)

A study of the teachings on and participation of women in religion, as well as a study of the status and roles of women in several religious traditions, such as Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, or indigenous religious traditions. Religion Perspective and African Americans', Appalachians', and Women's Perspective. 1 Course Credit

WGS 212 Literature of Caribbean Women (AFR/ENG)

Prerequisite: GSTR 210

Offered: Typically alternate years

This course is an exploration of voices of women in the Caribbean. We will read works by writers from the Anglo-Caribbean, French Caribbean, and Hispanic Caribbean. These writers represent the islands of Jamaica, Cuba, Guadalupe, Haiti, the Dominican Republic, and Barbados. Their works investigate issues of racial configuration, relationships between women, politics, colonialism and post-colonialism, and the creation of the island space. We will look at the long, turbulent history of the island of Hispaniola from the perspective of both the Haitian and Dominican, the complex history of each of these island nations, and other important topics. African Americans', Appalachians', and Women's Perspective and World Culture (Non-Western) component of the International Perspective. 1 Course Credit

WGS 220 Gender in Appalachia (APS)

Offered: Typically as student interest and faculty availability allow

An interdisciplinary exploration of gender and its impact on the Appalachian region. Proceeding from the assumption that cultural constructions of sex, sexuality, and gender are basic to our understandings of the world, we will investigate such topics as family and community; intimacy, violence, and power; health and reproduction; home and work; religion and spirituality; masculinity and femininity; activism and resistance in Appalachia. The diversity of Appalachian experiences will be explored through fiction and non-fiction readings, films, and discussion. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

WGS 223 Theologies of Liberation (REL)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (offered Spring 2012)

An exploration of the rise of political liberation theology movements and their critiques of and novel contributions to traditional expressions of Christian theology. Focus on understandings of theory and praxis, race, gender, class dimensions of social analysis, and re-constructions of the concepts of Christ and God. Religion Perspective. 1 Course Credit

WGS 225 Environmental Justice (AFR/APS/PSJ/SENS)

Prerequisite: GSTR 210

Offered: Typically alternate years

This course is an introduction to the study of Environmental Justice and issues associated with access to, and equitable sharing of, the products of a healthy environment, including clean water and air, healthy

food, non-toxic communities, and environmental security. The history of the environmental justice movement beginning with its foundations in the Civil Rights and Environmental movements will be studied, followed by a survey and analysis of current issues of environmental justice, particularly in relation to minority and poor communities in the United States and worldwide. Emphasis is placed on the role of women and African Americans as participants in the environmental justice movement, and the analysis of environmental justice issues in Appalachia. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

WGS 236 Women and Health (HLT)

Prerequisite: HLT 215 OR a college course in Women's and Gender Studies OR permission of instructor
Offered: Typically alternate years

This course will help students understand women's health from a personal perspective and then connect that understanding to the health of women in other parts of the world. Emphasis will be on reproductive health, including pregnancy, birth, and breastfeeding, but we will also study issues such as environmental health, violence against women, and AIDS as a global health problem. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

WGS 237 Women and Literature (ENG)

Prerequisite: Sophomore standing or above
Offered: Typically alternate years

Selected literature by women, focusing on works written in English. Emphasis on historical background and ethnic and cultural influences. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

WGS 302 Introduction to Queer Theory (ENG)

Prerequisite: WGS 124 or ENG 110 or permission.
Offered: Typically alternate years

An introduction to the discipline of Queer Theory. This course examines Western constructions of gender and sexuality, focusing on traditional discourses surrounding Lesbian/Gay/Bisexual/Transsexual/Queer (LGBTQ) and heterosexual identities. The lens of Queer Theory provides a framework for exploring issues related to sexuality, including but not limited to: essentialism, marginalization, heterosexism, and homophobia. The course also takes a brief look at LGBTQ history, focusing primarily on the LGBTQ liberation movement. 1 Course Credit

WGS 310 Communication and Gender (COM)

Prerequisite: GSTR 210 or permission of instructor
Offered: Typically alternate years

An examination of the role of gender in communication at the interpersonal, public, and cultural levels. Includes the study of historical and contemporary scholarship on gender; media representations of femininity and masculinity; similarities and differences in communication styles among the genders; and the role played by communication in the shaping of gender. 1 Course Credit

WGS 315 Classic Texts in Women's Studies

Prerequisite: WGS 124 or permission of instructor
Offered: Typically alternate years

A study of the Western version of the Women's and Gender Studies canon, with readings spanning the last two centuries in history, philosophy, literature, psychology, sociology, biography, and critical theory. Both old and new classic texts will be paired together to help students develop a coherent narrative about gender and sexuality over the past two hundred years. In addition, the idea of a "canon" will be raised as a problematic issue in a rapidly changing academic field. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

WGS 325 Gender and Sex Roles (SOC)

Prerequisite: SOC 100 or PSY 100 or CFS

130 AND GSTR 210

Offered: Typically alternate years

An examination of the behaviors and expectations of being male and female and the resulting relationships among men and women across the life cycle. Attention is given to current issues of gender roles and socialization, the family, education, employment, social class, and dynamics of social change.

1 Course Credit

WGS 350 Women's and Gender Studies Seminar I

Prerequisite: WGS 124 and junior standing

Offered: Typically annually

An exploration of diverse academic theories and feminist philosophies as these apply to current and historical conditions. This course will interrogate theories of gender, women's subjectivity, social identity, political identity, and transnational feminism. NOTE: Noncredit for students who completed WGS 358.

1 Course Credit

WGS 366 Cross-Cultural Perspectives on Family (CFS)

Prerequisite: SOC 100 or permission of instructor

Offered: Typically every Fall Term

Study of cultural influences upon family functions, structures, and behaviors, focusing on the recognition and understanding of cultural similarities and differences. Covers topics such as cross-cultural interrelationships among economy, government, religion and family; kinship systems and patterns of marital residence; cultural variations in power distribution and sex roles; differences in childrearing patterns; universal shifts from "traditional" families; and variations in roles of aging family members. African Americans', Appalachians', and Women's Perspective and World Culture (Western) component of the International Perspective.

1 Course Credit

WGS 450 Women's and Gender Studies Seminar II

Prerequisite: WGS 124 and senior standing

Offered: Typically annually

An exploration of diverse academic theories and feminist philosophies as these apply to current and historical conditions. This course will interrogate theories of gender, women's subjectivity, social identity, political identity, and transnational feminism. Students are expected to complete a research project in this course.

1 Course Credit

WGS 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

WGS 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

WGS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 to 3 Course Credits

WGS 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

WGS 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor

Offered: Typically on a limited basis as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit