

# 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 2011)*

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 date yet to be determined)*

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 (next offered Fall 2011)*

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

## **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 alternate Fall Terms (next offered Fall 2012)*

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

### **AFR 204 African American Intellectual Thought**

*Prerequisite: GSTR 110*

*Offered: Typically every Fall Term (next offered Fall 2011)*

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 2011-2012)*

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. NOTE: Noncredit for students who took SENS 460 in Fall 2005 or Fall 2006.** 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

### **AFR 231 African American Religious Traditions**

*Prerequisite: GSTR 110 (or waiver)*

*Offered: Typically annually (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 Africa. 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 (first offered Fall 2012)*

Utilizing primary and secondary source material with special attention to the United States, students will examine the African experience in the Americas from the 14<sup>th</sup> 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 annually (next offered term yet to be determined)*

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. 1 Course Credit

### **AFR 450 Seminar in African and African American Studies**

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

*Offered: Typically every fall according to programmatic needs (first offered in Fall 2012)*

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 397/497A 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

### **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 & 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 (formerly BIO 314)*

*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 **NOTE:** Noncredit for students who completed ANR 340. 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 (formerly 121), CHM 134 (formerly 124), 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 System.**

*Prerequisite: ANR 110 or permission of instructor*

*Offered: Typically alternate Fall Term (next 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: Typically alternate Spring Terms (next 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 (formerly 121), or 134 (formerly 124); or permission of instructor*

*Offered: Typically alternate Fall Terms (next offered Fall 2011)*

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 BIO 110, or permission of instructor*

*Offered: Typically alternate Spring Term (next offered Spring 2012)*

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 (formerly BIO 314)*

*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 Fall 2012)*

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: ANR 130 or BIO 114 (formerly BIO 314)*

*Offered: Typically alternate Spring Terms*

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 Form and Wildlife Management**

*Prerequisite: ANR 130 or ANR 110 or BIO 110*

*Offered: Typically alternate Spring Terms (next offered Spring 2012)*

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 389/089 Study Tour of Agriculture and Related Activities**

*Prerequisites for credit: Junior standing and one course each in Animal Science, Plant Science, and Economics*

*Offered: Not offered on a regular basis*

Two- or three-week summer tour of selected major agricultural areas. Opportunities for observation of types of farming, associated technologies, and natural-resource endowments. Visits to supply, marketing, and processing plants. Tour preceded by 12 to 18 hours of preparatory sessions during the Spring Term, followed by 3 to 6 hours of summarizing sessions. Taken as 389 for 1/2 or 1 credit **or** as 089 for noncredit. Written report required for credit.

Noncredit, 1/2, or 1 Course Credit

**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/or general description.* 1 Course Credit

**ANR 492 Senior Seminar Course**

*Prerequisites: At least two ANR 300-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 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 397/497A 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

**ANR 398/498 Directed Study**

*Prerequisites: Will vary, 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 121 Appalachian Cultures**

*Offered: Typically annually (next offered Fall 2011)*

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 (next offered Fall 2011)*

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 (next offered Fall 2011)*

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 (next offered Fall 2011)*

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 (next offered Fall 2011)*

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/SENS/WGS)**

*Prerequisite: GSTR 210*

*Offered: Typically alternate years (next offered Spring 2012)*

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. **NOTE:** Noncredit for students who took SENS 460 in Fall 2005 or Fall 2006. 1 Course Credit

### **APS 229 Contemporary Issues in Appalachia**

*Prerequisite: GSTR 110 (or waiver)*

*Offered: Typically annually (offered Spring 2012)*

Exploration of an issue (or issues) central to contemporary Appalachia and diverse responses that address the issue(s). **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 (next offered Spring 2012)*

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 2012)*

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-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.* 1 Course Credit

### **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 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 Renaissance through Modern times. Major developments in periods, styles, and artists will be discussed relative to time, place, and context.

1 Course Credit

### **ARH 232 Classical Art and Archaeology**

*Prerequisite: GSTR 210*

*Offered: Typically alternate years (next offered fall 2011 and 2013)*

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. 1 Course Credit

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

*Prerequisite: GSTR 210*

*Offered: Typically alternate years (next offered fall 2012 and 2014)*

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 2868 in Spring 2009. 1 Course Credit

### **ARH 234 Introduction to Archaeological Methods**

*Prerequisite: GSTR 210*

*Offered: Typically alternate years (next offered spring 2012 and 2014)*

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 ARH 286H or ART 2868 in Spring 2010. 1 Course Credit

### **ARH 238 History and Analysis of Craft**

*Prerequisite: GSTR 110 (or waiver)*

*Offered: Typically alternate years (next offered spring 2012 and 2014)*

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. 1 Course Credit

### **ARH 239 Native North American Art and Archaeology**

*Prerequisite: GSTR 210*

*Offered: Typically alternate years (next offered spring 2013 and 2015)*

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. 1 Course Credit

### **ARH 242 Medieval Art**

*Prerequisite: GSTR 210*

*Offered: Typically alternate years (next offered spring 2013 and 2015)*

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 245 19th and 20th Century Art**

*Prerequisite: For Art majors, ARH 121 and 124 (formerly ART 120) with a grade of C or higher; or perm. of instructors*

*Offered: Typically every Fall Term*

Nineteenth-century revolutions in art (painting, sculpture, architecture) and their impact on 20<sup>th</sup>-century art. Students will study the interaction between the arts in the contemporary world and other forces shaping today's society. **NOTE:** Noncredit for students who took this course as ART 245. 1 Course Credit

**ARH 248 Islamic Art and Architecture (AST)**

*Prerequisites: GSTR 210*

*Offered: Typically alternate years (next offered fall 2012 and 2013)*

A study of Islamic art and architecture in the Middle East, North Africa, and Spain. **Arts Perspective and Religion Perspective.** **NOTE:** Noncredit for students who took this course as ART 248. 1 Course Credit

**ARH 250 Indian and Southeast Asian Art History (AST)**

*Prerequisite: GSTR 210*

*Offered: Typically alternate years (next offered fall 2011 and 2014)*

A survey of the religious art (Buddhist, Dravidian, Hindu, Islamic, Jain) of India and Southeast Asia. Arts Perspective and Religion Perspective. **NOTE:** Noncredit for students who took this course as ART 250.

1 Course Credit

**ARH 267 Colonial and Modern Latin American Art**

*Prerequisite: GSTR 210*

*Offered: Typically alternate years (next offered spring 2012 and 2014)*

The art and architecture of Mexico, Central America, and South America from the 16th century to modern times examining the impact of Western colonialism. Arts Perspective and World Culture (Western) component of the International Perspective. **NOTE:** Noncredit for students who took this course as ART 267. 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

## **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*

An 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**

*Prerequisite: ART 110 and 125*

*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, technique, 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, collagraph 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 semiprivate 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 C or higher; or permission of instructor*

*Offered: Typically every Spring Term*

Study of ceramic an 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 come 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 263 Introduction to Museum Work**

*Prerequisite: GSTR 210 or permission o/instructor*

*Offered: Typically alternate years (next offered Fall 2011)*

This course will look at the role of the Museum from its historical and theoretical beginnings to the challenges facing the field in the 21<sup>st</sup> 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. 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 397/497A or B Team Initiated Study**

*Prerequisite: Sophomore or junior standing/or 390; senior standing/or 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 o/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 1 (JPN)**

*Prerequisite: Permission o/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] (JPN)**

*Prerequisite: AST/JPN 101 with a grade of C or higher, or permission o/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 ill (JPN)**

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

*Offered: Typically every Fall Term (beginning Fall2011)*

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

**AST 104 Introduction to Japanese IV (JPN)**

*Prerequisite: AST/JPN 103 with a grade o/e or higher, or permission of instructor*

*Offered: Typically every Spring term (beginning Spring 2012)*

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 or 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 (NOD-Western) component of the International Perspective. 1 Course Credit

### **AST 132 Religions of China**

Offered : Typically alternate years (next 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 2011) 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 Conn) 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 dance-like. 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 229 Modern Imperialism (HIS)**

Prerequisite: HIS 102, AST/HIS 122, AST/HIS 123, OR GSTR 210

Offered: Typically alternate years (next offered 2011-2012)

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 248 Islamic Art and Architecture (ARH)**

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered 2011-2012)

A study of Islamic art and architecture in the Middle East, North Africa, and Spain. Arts Perspective and Religion Perspective. NOTE: Noncredit for students who took this course as ART 248. 1 Course Credit

**AST 250 Indian and Southeast Asian Art History (ARH)**

Prerequisite: GSTR 210 Offered: Typically alternate years (next offered 2012-2013)

A survey of the religious art (Buddhist, Dravidian, Hindu, Islamic, Jain) of India and Southeast Asia. Arts Perspective and Religion Perspective. NOTE: Noncredit for students who took this course as ART 250. 1 Course Credit

**AST 260 Buddhism (REL)**

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2012)

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 every Spring Term

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. 1 Course Credit

**AST 322 Seminar in Chinese History (HIS)**

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

Offered: Typically alt. Spring Terms (next offered Spring 2011)

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 112 or 123; OR junior standing

Offered: Typically alternate Spring Terms (next expected to be offered 2011-2012)

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 1861286/386/486 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/or general description.

1/2 or 1 Course Credit

**AST 390/490A or B Independent Study**

Prerequisite: Sophomore or junior standing/or 390; senior standing/or 490 Offered: Typically as student interest and faculty availability allow See Academic Programs and Courses in /his 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/or general description.

1 to 3 Course Credits

**AST 3971497A 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 /his 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 Fall 2011)*

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 Fall and Spring terms*

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. NOTE: This course is noncredit for students who completed it as BIO 302. 1 Course Credit

**BIO 110 Modern Biology**

*Prerequisite: Completion or waiver of MAT 012, or permission of instructor; a freshman-level 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. NOTE: Noncredit for students who completed BIO 313. 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. NOTE: Noncredit for students who completed BIO 314. 1 Course Credit

### **BIO 207 Pathophysiology: Concepts of Altered Health States**

*Prerequisites: EITHER 1) BIO 102, plus CHM 113 or CHM 131 (formerly 121) OR 2) Bio 220 (formerly 320), BIO 323, and CHM 221 (formerly CHM 321)*

*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 may not be used to satisfy any concentration area requirement in the Biology major. Noncredit for students who completed BIO 307. 1 Course Credit

### **BIO 220 Comparative Vertebrate Anatomy**

*Prerequisites: BIO 110 and BIO 113 (formerly 313), 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 (formerly 302) or 110 AND CHM 113 or 121 (formerly CHM 321); OR permission of instructor; a sophomore-level course*

*Offered: Typically 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. NOTE: Noncredit for students who completed BIO 322. 1 Course Credit

**BIO 323 Human Physiology**

*Prerequisites: BIO 110 and 113 (formerly 313); AND CHM 221 (former), 321); 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 (formerly 313) or permission of instructor; a sophomore-, junior-, or senior-level course*

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

The intent of this course is to expose students to the general morphological features and life cycles of selected human helminths and arthropods which 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 (formerly 313) and CHM 222, OR permission of instructor; a sophomore- or Junior-level course*

*Offered: Typically alternate Fall Terms (next offered Fall 2011)*

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. NOTE: Noncredit for students who completed this course as BIO 386/486: Neurobiology or as BIO 309: *This is Your Brain* (Short Term 2000 and 200 I). 1 Course Credit

**BIO 326 Invertebrate Zoology**

*Prerequisite: BIO 113 (formerly 313) 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 (formerly 313) 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.

NOTE: Noncredit for students who completed this course as BIO 486: Herpetology. 1 Course Credit

**BIO 330 Genetics**

*Prerequisites: BIO 113 and 114 (formerly BIO 313 and 314); CHM 222 (formerly CHM 322); 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 (formerly 313) and CHM 221 (formerly 321), OR permission of instructor; a sophomore-or junior-level course* *Offered: Typically alternate Fall Terms (next offered Fall 2012)*

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 (formerly 313) or permission of instructor*

*Offered: Typically Fall Terms, as faculty availability and student interest allow*

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. Two class periods and two two-hour laboratory periods each week. 1 Course Credit

**BIO 342 Field Botany**

*Prerequisites: BIO 114 (formerly 314); OR permission of instructor; a junior-or senior-level course*

*Offered: Typically every Spring Term*

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: Noncredit for students who completed BIO 442. 1 Course Credit

**BIO 344 Dendrology and Forest Ecology**

*Prerequisite: BIO 114 (formerly 314) or permission of instructor; a junior-or senior-level course*

*Offered: Typically every 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. NOTE: Noncredit for students who completed BIO 444. 1 Course Credit

**BIO 441 Cellular and Molecular Biology**

*Prerequisites: 810 113, 114 (formerly BIO 313, 314), CHM 212 (formerly CHM 321). OR permission of instructor; BIO 212 (formerly BIO 322) is suggested strongly; a senior-level course Offered: Typically alt. 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/or general description. 1 to 3 Course Credits*

**BIO 397/497A or B Team Initiated Study** *Prerequisite: Sophomore or junior standing/or 397; senior standing for 497 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*

**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/or 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 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 Fall 2011)*

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 101; 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 Fall 2011)*

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 Spring 2012)*

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 (next offered Fall 2012)*

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 Spring 2012)*

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 Fall 2011)*

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)*

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 3271*

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

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/or general description. 1/2 or 1 Course Credit*

**BUS 390/490A or B Independent Study**

*Prerequisite: Sophomore or junior standing/or 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/or general description. 1 to 3 Course Credits*

**BUS 397/497A or B Team Initiated Study**

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

*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*

**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*

# **Child and Family Studies**

## **CFS 103 Food Studies 1**

*Prerequisite: Completion or waiver of MAT 012*

*Offered: Typically alt. Fall Term (next 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 all 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 J30 or permission of instructor*

*Offered: Typically as student interest and faculty availability allow*

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*

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 II (Interior Design)**

*Prerequisites: Sophomore standing or above; CFS 237 preferred Offered: Typically every Spring Term (next offered Spring 2012)*

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 2012)*

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 2012)*

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 -2011)*

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 2012)*

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 (formerly 327), or EDS 228 (formerly 328), or permission of instructor*

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

A study of the behavior and development of young children focusing on theories of guidance, systematic guidance strategies, behavioral goals and outcomes, assessment of developmental levels and learning goals, best practices applications, behavior-management skills, and problem-solving strategies in working with children in learning environments and family settings. 10 field hours. 1 Course Credit

### **CFS 356 The Exceptional Child**

*Prerequisite: CFS 130, EDS 227 (formerly 327), or EDS 228(formerly 328), 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 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. 10 field hours. Course Fee: \$10. 1 Course Credit

### **CFS 362 Contemporary Family Issues**

*Prerequisite: CFS 207 (a/s/o WGS) or permission of instructor*

*Offered: Typically all. Spring Terms (next offered Spring 2012)*

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: 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 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 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

### **CFS 441 Family Resource Management**

*Prerequisite: CFS J30, 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/or IECE program AND Admission to Student Teaching*

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

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: CPS 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/or 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/or general description. 1 Course Credit*

**CFS 395/495 Internship**

*Prerequisite: Sophomore, junior, or senior standing*

*Offered: Every term, including summer See Academic Programs and Courses in this Catalog 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 Internships within this Program. Please check with the Program Coordinator for additional information. 1 to 3 Course Credits

**CFS 397/497A or B Team Initiated Study**

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

**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/or general description. 1 Course Credit*

# Chemistry

## **CHM 101 Foundations of Chemistry**

*Prerequisite: Completion or waiver of MAT010 or concurrent enrollment in MAT011*

*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 01 2 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 B10 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. Noncredit for students who completed CHM 121, 124, or 134. 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 121, 124, or 131. 1 Course Credit

### **CHM 221 Organic Chemistry I**

*Prerequisite: CHM J31 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. NOTE: Noncredit for students who have completed CHM: 321. 1 Course Credit

### **CHM 222 Organic Chemistry II**

*Prerequisite: CHM 221 (formerly 321) 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. NOTE: Noncredit for students who have completed CHM 322. 1 Course Credit

### **CHM 311 Analytical Chemistry**

*Prerequisite: CHM 131 or 134, and completion or waiver of MAT 135 (formerly 110), 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 122 (formerly 322)*

*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); MAT 225; PHY 218 (or concurrent enrollment) or PHY 3/5; 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), MAT 225, 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 (formerly 322)*

*Offered: Typically alternate Spring Terms (next offered Spring 2012)*

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. AU 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 Topic**

*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 397/497A or B Team Initiated Study**

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

*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*

## **Communications**

### **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 I03B 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 2012)*

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 2011)*

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 220 Theories of Communication**

*Prerequisite: GSTR 210 and COM 100 Offered: Typically annually (next offered Spring 2012)*

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 Perceptive. 1 Course Credit

### **COM 284 Workshop in Composition/Rhetoric (ENG)**

*Prerequisite: GSTR 210 or permission of instructor*

*Offered: Typically alternate years (next offered 201 1-2012)*

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 2012)*

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 201 J)* 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 2011)*

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. NOTE: Noncredit for students who completed COM/WGS 386: *Communication and Gender* in Spring 2008 or COM/WGS 486: *Gender Communication* in Spring 2006. 1 Course Credit

### **COM 312 Mass Communication**

*Prerequisite: GSTR 110 or permission of instructor*

*Offered: Typically alternate years (next offered Fall 2011)*

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 2J 0 or permission of instructor*

*Offered: Typically alternate years (next offered Fall 2011)*

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/or 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/or general description. 1 to 3 Course Credits*

**COM 397/497A or B Team Initiated Study**

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

*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*

**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 once per year (next offered Fall 2011)*

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 125 Introduction to Internet Programming**

*Prerequisite: Completion or waiver of MAT 012*

*Offered: Typically once per year (next offered Spring 2012)*

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. NOTE: Noncredit for students who completed esc 205. 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). NOTE: Noncredit for students who completed esc 206. 1 Course Credit

**CSC 226 Introduction to Programming with C++**

*Prerequisite: esc 111 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. NOTE: Noncredit for students who completed CSC 320. 1 Course Credit

### **CSC 236 Data Structures**

*Prerequisite: CSC 216 with a grade of C or higher*

*Offered: Typically every Fall Tem*

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. NOTE: Noncredit for students who complete CSC 320. 1 Course Credit

### **CSC 303 Theory of Computation**

*Prerequisite: CSC 125 or 126 or 226 AND MAT 105*

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

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 DO 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: esc 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: esc 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. NOTE: Noncredit for students who completed CSC 230. 1 Course Credit

### **CSC 340 Computational Intelligence**

*Prerequisite: CSC236 or permission of instructor*

*Offered: Typically alternate Fall terms (next offered Fall 2011)*

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: MAT 225; one course chosen from CSC 125, 126, 226; AND one course chosen from MAT 214, 31, or 330*

*Offered: Typically alternate Spring Terms (next offered Spring 2012)*

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: esc 236 and TEC 265*

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

A study of the design of modem 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 2012)*

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/or general description. 1/2 or 1 Course Credit*

### **CSC 390/490A or B Independent Study**

*Prerequisite: Sophomore or junior standing/or 390; senior standing/or 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/or general description. 1 to 3 Course Credits*

### **CSC 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/or general description. 1 Course Credit*

### **CSC 398/498 Directed Study**

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

## **Economics**

**ECO 101 Principles of Macroeconomics** *Prerequisites: Completion or waiver of MA T OJ 2; 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 11.5 (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 Fall 2012)*

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

### **302 Intermediate Microeconomics**

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

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

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 1**

*Prerequisites: ECO 301 or 301, 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 ECO 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 Spring 2012)*

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 Fall 2012)*

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 beginning Fall 2012*

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**

Prerequisites: ECO 101 or 102

Offered: Typically every third regular term (first 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

### **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 101; or permission of instructor*

*Offered: Typically every third regular term (next offered Fall2011)*

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 ~IO. This student-led and faculty mentored research will lead to the completion of a substantive research paper and a presentation of research results to peers and the Economics faculty. 1/2 Course Credit

### **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 junior standing/or 390; senior standing/or 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 39S/49S Internship**

*Prerequisite: Sophomore, junior or senior standing*

*Offered: Typically every term*

*See Academic Programs and Courses in this Catalog & Student Handbook/or general description. 1 to 3 Course Credits*

**ECO 397/497A or B Team Initiated Study** *Prerequisite: Sophomore or junior standing/or 397; senior standing/or 497 Offered: Typically as student interest and faculty availability allow See Academic Programs and Courses in this Catalog & Student Handbook/or general description. 1Course 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*

# Education Studies

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

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

*Offered: Typically every 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 215 Science for Teachers**

*Prerequisite: Admission to Major*

*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 210 Foundations of Interdisciplinary Early Childhood Education (CFS)**

*Prerequisites: CFS 130 or permission of instructor Offered: Typically alt. Spring Terms (next offered Spring 2012)*

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 227 Child Development and School Structure**

*Prerequisite: EDS J50 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 & Student Handbook*

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 10 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: Admission to Major*

*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 I-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, demonstrating the ability to:

- 1 develop necessary understanding of subject matter and to properly organize it in a fashion that helps students recognize its importance and helps them want to learn it;
- 2 plan effectively for various periods of instruction (class/period level, specific activity level, or entire unit) in a manner consistent with Berea College Teaching and KERA goals and expectations, consistent with the experiences of students, and incorporates subject matter through a variety of sources of knowledge;
- 3 create positive teaming environments, places where students want to be and want to learn;
- 4 select and use appropriate instructional materials and to recognize in planning how to meet the needs of individual students;
- 5 direct effective classroom discussions that involve all children;
- 6 pose questions that invite students to participate, while also challenging their thinking;
- 7 understand the dynamics of classroom management and to effectively use their own teaching in fostering appropriate student behavior.
- 8 employ constructive disciplining techniques, including the appropriate use of praise.
- 9 Assess student progress in varied and authentic ways and to communicate results of assessment, both to students in a way that encourages future learning, and to colleagues and parents in a way that provides a clear and complete evaluation of the student.

### **EDS 335 Integrated Curriculum I**

*Prerequisite: EDS 127*

*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: EDS 227 or 228, junior standing, or 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 sociocultural 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: Grade of B- or higher in EDS 349 or permission of instructor.*

*Offered: Typically every Summer Term J 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 J30 and CFS/EDS 210; OR permission of instructor* *Offered: Typically alternate Fall Terms (next offered Fall 2012)*

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 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

### **EDS 382 Early Childhood Special Education (CFS)**

*Prerequisite: CFS J30 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: Successful completion of EDS 3xx General Methods for Teaching*

*Offered: Typically offered every Spring Tenn.*

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: Admission to Major*

*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. 1.5 Course Credits

### **EDS 440 Integrated Curriculum m**

*Prerequisite: Admission to Major*

*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: Admission to Major*

*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 Tenn. 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: Admission to Student Teaching*

*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: Admission to Major*

*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**

*Prerequisite: Admission to the Teacher Education Program 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: Admission to Student Teaching 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 respect 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 Tenn. 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: Admission UJ Student Teaching 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: Successful completion of EDS 3xx Content Teaching Methods Practicum II*

*Offered: Typically offered every Fall Tenn.*

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/or general description. 1/2 or 1 Course Credit*

**EDS 487 Elementary Student Teaching**

*Prerequisite: Admission to Student Teaching*

*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: Admission to Student Teaching 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 390/490A or B Independent Study**

*Prerequisite: Sophomore or junior standing/or 390; senior standing/or 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*

**EDS 395/495 Internship**

*Prerequisite: Sophomore, junior, or senior standing Offered: Typically every term See Academic Programs and Courses in this Catalog & Student Handbook/or general description. 1 to 3 Course Credits*

**EDS 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/or general description. 1 Course Credit*

**EDS 398/498 Directed Study** *Prerequisites: Will vary, but always will include permission o 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)**

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 Fall 2011)*

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 (next 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 (next offered Fall 2011)*

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 110 or permission o/instructor*

*Offered: Typically annually (next offered 2012-13)*

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 2012)*

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 (first offered 2012-13)*

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 2012-2013)*

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 (next offered Fall 2011)*

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 2012-2013)*

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 2012)*

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 2012-13)*

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 Spring 2012)*

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 o/instructor*

*Offered: Typically alternate years (next offered 2012-13)*

A course that allows students 10 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 repealed 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. 1 Course Credit

**ENG 282 Workshop in Creative Writing**

*Prerequisite: GSTR 210 or permission of instructor*

*Offered: Typically alternate years (next 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 o/instructor*

*Offered: Typically alternate years (next offered Fall 2011)*

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 (next offered Fall 2011)*

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 302 Introduction to Queer Theory (WGS)**

*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 c:liscourses 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 (first offered Spring 2012)*

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 primarily 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 (next offered 2011-2012)*

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 (next offered Fall 2011)* 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 2012)*

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 (first offered yet to be determined)*

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 (ENG 382D offered Fall 2011 and ENG 382N offered Spring 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 Spring 2012)*

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 (next offered Fall 2011)*

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/or 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*

## 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 o/e 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 (next offered Spring 20J 2)*  
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 (next expected to be offered Spring 2012)*  
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*  
A survey of French literature from the Middle Ages to 1715. Arts Perspective. 1 Course Credit

**FRN 321 Panorama of French Literature 11**

*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 o/e or higher, Or permission of instructor*  
*Offered: Typically as student interest and faculty availability allow (next expected to be offered Fall 2011)*  
Selected prose and poetry. Arts Perspective. 1 Course Credit

**FRN 186/286/386/486 Special Topic.**

*Prerequisites; Determined by instructor*  
*Offered: Typically as student interest and faculty availability allow*  
*See Academic Programs and Courses in this Catalog & Student Handbook/or general description.* 1/2 or 1 Course Credit

**FRN 390/490A or B Independent Study**

*Prerequisite: Sophomore or junior standing/or 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

**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/or 497*

*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 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 1**

*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**

*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 (next offered Spring 2012)*

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 as 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 (next offered Spring 2011)*

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 See Academic Programs and Courses in this Catalog & Student Handbook for general description.* 1 Course Credit

**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 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

**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

# 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/or general description. 1/2 or 1 Course Credit*

**GRK 390/490A or B Independent Study** *Prerequisite: Sophomore or junior standing/or 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*

## **GRK 395/495 Internship**

*Prerequisite: Sophomore, junior, or senior standing*

*Offered: Typical/y 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. 1 Course Credit*

## **GRK 398/498 Directed Study**

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

*Offered: Typically all 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*

# General Studies

## **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. AJI 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 U: 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. All sections explore together some historical understandings of Christianity, and then individual sections each explore a selected contemporary issue in light of historical and biblical 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. 1 Course Credit

## **GST**

### **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 117 Christmas Country Dance School**

*Offered: Typically annually*

An intensive experience designed to increase skills and understanding in the teaching of Appalachian, English, Danish, and American dance and song. One week of full-time instruction and practice. Meets one 200-level 1/4 course credit PED Activity Course requirement. NOTE: This course may be repeated for credit. 1/4 Course Credit

### **GST 150 College Composition**

*Offered: Typically Fall and Spring terms*

This course is an intensive study and practice of formal 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/or general description. 1/2 or 1 Course Credit*

### **CST 390/490A or B Independent Study**

*Prerequisite: Sophomore or junior standing/or 390; senior standing/or 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/or general description. 1 to 3 Course Credits*

### **GST 397/497A or B Team Initiated Study**

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

*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*

### **GST 398/498 Directed Study**

*Prerequisites: Will vary, but always will include permission a/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*

## **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 (next 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. NOTE: Noncredit for students who completed HEB 301. 1 Course Credit

# 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. Noncredit for students who have completed HIS 226. 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 21<sup>st</sup> 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 122 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 123 History of Japan (AST)**

*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 2012)*

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 2013)*

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 (next offered Fall 2011)*

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

*Prerequisite: None 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/10<sup>th</sup> 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 Fall 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 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

**HIS 209 Classical Greek Civilization**

*Prerequisite: GSTR 110 (or waiver)*

*Offered: Typically alternate Spring Terms (next offered Spring 2012)*

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 (LA 1')**

*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 2011-2012)*

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 (next offered term yet to be determined)*

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. HIS/AST 122, HIS/AST 123. OR GSTR 210*

*Offered: Typically alternate years (next offered 2011-2012)*

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 *101-1012 Berea* 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 234 Christians and Pagans in the Late Antique World (REL)** 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

### **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 tradition 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 2012)*

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. I 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 (NOD-Western) Component of the International Perspective. 1 Course Credit

**HIS 310 Seminar in United States History**

*Prerequisites: HIS 161, HIS 162, or REL 200*

*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 maybe repeated for credit, provided the topic differs from previous offerings. Western History Perspective. NOTE: Also see *Schedule of Classes* for specific term offerings 10 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 201 2)* 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 (next offered Spring 2013)*

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. I 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, 10 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 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 that previously studied. World Culture (Non-Western) component of the International Perspective. 1 Course Credit

### **HIS 323 Seminar in Japanese History (AST)**

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

*Offered: Typically alt. Spring Terms (next offered Spring 2012)*

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 Spring 2012)*

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. 1 Course Credit

### **HIS 355 Seminar in American Religious History (REL)**

*Offered: Typically every other spring semester*

*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 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 HIS/APR 165*

*Offered: Typically annually (next offered term yet to be determined)*

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 a Perspective Area in the General Education Program. Check the *Schedule of Courses* to see which specific sections meet these perspectives. 1 Course Credit

**HIS 406 Senior Seminar in History**

*Prerequisite: IUS 200, completion of a 300-level HIS course, and senior standing, or junior standing with permission of instructor*

*Offered: Typically annually (next offered Fall 2011)*

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/or general description. 1/2 or 1 Course Credit*

**HIS 390/490A or B Independent Study**

*Prerequisite: Sophomore or junior standing/or 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*

**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 See Academic Programs and Courses in this Catalog & Student Handbook for general description. 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/or general description. 1 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-can be earned. Course Fee: \$5. NOTE: Noncredit for students who completed this course as HLT 209.

1 Course Credit

**HLT 111 Human Sexuality**

*Offered: Typically alternate Spring Terms (next offered 2011-2012)*

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 (next offered Fall 2012)*

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

**HLT 215 Significant Issues in Health**

*Prerequisites: GSTR 110 (or waiver) and PER 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. NOTE: Noncredit for students who completed HLT 115. 1 Course Credit

**HLT 224 Addiction and Violence in the Family**

*Prerequisites: PEH 100 or permission; and GSIR 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 8 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

**HL T 236 Women and Health (WGS)**

*Prerequisite: HLT 21 5 OR a college course in Women's Studies OR permission a/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 breast feeding, but we will also study issues such as environmental health, violence against women, and AIDS as a global health problem. 1 Course Credit

**HLT 315 Health Education and Promotion**

*Prerequisites: PEH 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

**HL T 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 397/497A 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/or 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 or general description.*

1 Course Credit

## Chinese

**CHI 102 Introduction to Chinese I**

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

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 (not currently being offered)*

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: JPN IAST JOJ 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 10 Japanese III (AST)**

*Prerequisite: JPN/AST 102 with a grade of C or higher or permission of instructor*

*Offered: Typically every Fall Term (beginning Fall 2011)*

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

**JPN 104 Introduction to Japanese IV (AST)**

*Prerequisite: JPN/AST 103 with a grade of C or higher or permission of instructor*

*Offered: Typically every Spring term (beginning Spring 2012)*

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

## 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 (offered Spring 2012, as an exception)*

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 (next offered Spring 2012)* 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/or 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/or 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*

## **Library Science**

**LSC 390/490A or B Independent Study**

*Prerequisite: Sophomore or junior standing/or 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, Spring, and Summer 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 009*

*Offered: Typically Fall, Spring, and Summer terms*

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 (I) 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 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 101, 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 and as student interest and faculty availability allow*

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; linear regression and correlation; 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 that 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, how best to schedule a list of tasks to be done, and how to view game theory as a model of social interaction. 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 (formerly MAT 220). 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. Computer graphics and computational packages will be introduced to aid in the analysis of selected applications. 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. Computer graphics and computational packages will be introduced to aid in the analysis of selected applications. Practical Reasoning with Quantitative Emphasis (PRQ). 1 Course Credit

### **MAT 135 Calculus I**

*Prerequisite: A knowledge of trigonometry and MAT 110, 112, or 125 (110 and 112 no longer offered at Berea) 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. NOTE: Noncredit (or students who completed this course as MAT 220). 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. Observing and teaching 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. Observing and teaching 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). Course credit

### **MAT 214 Linear Algebra**

*Prerequisite: MAT / 35 or permission of instructor Offered: Typically every Spring Term*

This course is intended for students interested in acquiring some familiarity with an abstract mathematical structure that is rich with applications in other areas of mathematics and in the social and physical sciences. Topics to be studied include vector spaces, linear transformations, and matrices. Practical

Reasoning with Quantitative Emphasis (PRQ). NOTE: Noncredit for students who completed MAT 314. 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 (next offered Fall 2011)*

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 2012)*

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 2011-2012)*

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

### **MAT 321 Foundations of Geometry**

*Prerequisite: MAT 315 Offered: Typically alternate years (next offered Fall 2011)*

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 (next offered Fall 2011)* 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 31j and 330 or permission of instructor*

*Offered: Typically alternate years (next offered 2012-2013)*

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 esc 125, 126, or 226; AND one course chosen from MAT 214,315, or 330*

*Offered: Typically alternate Spring Terms*

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

### **MAT 434 Real Analysis**

*Prerequisite: MAT 315 and 330, or permission of instructor*

*Offered: Typically alternate years (next offered 2011-2012)*

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. as an exception)* 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, oscillation theory, power-series solutions, systems of first-order equations, nonlinear equations, and numerical methods. 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/or 390; senior standing/or 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*

**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/or 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/or general description. 1 Course Credit*

# Music

## **MUS 106 World Music**

*Offered: Typically annually (next offered Fall 2011)*

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 every Spring Term (next offered Spring 2011)*

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. Although the focus of the literature will be music from the Western music tradition, selected examples of music from other world cultures will be included. 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: Permission of instructor*

*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: Permission of instructor*

*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 (formerly 120). NOTE: Noncredit for students who completed MUS 312. 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). NOTE: Noncredit for students who completed MUS 121. 1/2 Course Credit

**MUS 223 Aural Harmony II**

*Prerequisite: MUS 221 (formerly 121)*

*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 222 (formerly 312). NOTE: Noncredit for students who completed MUS 313. 1/2 Course Credit

**MUS 224 Appalachian Music (APS)**

*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 (not offered 2011-2012)*

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 (formerly 312)*

*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**

*Prerequisite: MUS 223 (formerly 313)*

*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, polytonality, 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 324 Composition**

*Prerequisite: MUS 322*

*Offered: Typically Fall and Spring terms, as student interest and/acuity availability allow*

Selected topics in composition are studied, such as texture; tonal and serial procedures; melody with accompaniment; and idiomatic writing for instruments and voices. Students use skills acquired through previous study of theory, harmony, and musical analysis in arranging and creating pieces in small and large forms. A weekly seminar (one hour) and individual conferences (one-half hour) focus on the creation of original works by students and detailed analysis of works that exemplify the selected topics. Students also will gain familiarity with computer programs in music notation and publishing. Individual assignments are made on the basis of each student's ability, training, and experience. May be repeated for credit with permission of instructor. 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. Coursework 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 222 (formerly 312); or permission of instructor*

*Offered: Typically alternate years (MUS 330 next offered Fall 2012 and MUS 331 next 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/or 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 (formerly 313)*

*Offered: Typically alternate Fall Terms (next expected to be offered Fall 2011)*

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 340o 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 (next offered Spring 2012)*

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 350o 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 351o 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 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 397/497A or B Team Initiated Study**

*Prerequisite: Sophomore or junior standing for 397; senior standing/or 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/or 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 (112 credit) and MUA 400 (112 credit) to fulfill the Senior Seminar requirement if they do a recital and pass a recital preview. Other Music majors will take MUS 400 as a one-credit course. Music Education majors may choose to take the course as 1/2 or full credit, in consultation with their Academic Advisor. 1/2 to 1 Course Credit

**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: None*

*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

### **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 female Berea College students. 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/Latino 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), NOTE: Fall Term enrollees also are asked to cover a portion of the costs of the Annual Fall Term Retreat. 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

**MUA 400** is the recital/performance component of the Senior Seminar described in the MUS 400 course description. Jury examinations at the end of each term are required of all students enrolled in Applied Music lessons at the 300 and 400 levels. Music majors, however, must take a jury examination in the major's applied-music instrument every term regardless of classification level. Attendance at a monthly performance class is required of all applied-music students.

## **Nursing**

### **NUR 341 Essentials of Health Assessment and Nursing Practice I**

*Prerequisites: BIO 102 (formerly 302)*

*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*. Caring is the paradigm for this course and expands the concepts of critical thinking, nursing, person, environment, and health. This course includes four hours of theory/classroom experience and three hours of clinical laboratory experiences each week. Appropriate standardized exam(s) may be required. Active Learning Experience. NOTE: Taken Fall Term of sophomore year. Course Fee: \$260. 1 Course Credit

### **NUR 342 Essentials of Health Assessment and Nursing Practice II**

*Prerequisite: NUR 341 Offered: Typically every Spring Term*

This course continues the focus on the assessment of health and promotion of wellness throughout the lifespan through the nursing process, and 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 curative factors in healthcare settings as a foundation for nursing care of common healthcare concerns adults. Caring is the paradigm for this course and expands the concepts of critical thinking, nursing, person, environment, and health. 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(s) may be required. NOTE: Taken Spring Term of sophomore year. Course Fee: \$240. 1-1/2 Course Credits

### **NUR 350 Nursing Care of Adults I Surgical**

*Prerequisite: 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. Caring is the paradigm for this course and expands concepts of critical thinking, nursing, person, environment, and health. 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 120 hours of clinical experience per term. Appropriate standardized exam(s) may be required. NOTES: Taken Fall Term of junior year. Course Fee: \$45 1-1/2 Course Credits

### **NUR 351 Nursing of Children and Adults With Psychiatric/Mental Health Needs**

*Prerequisites: NUR 342: BID 107 (or concurrent enrollment): BID 112 (formerly 322): CFS 22 I; 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/or 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: \$45 1 Course Credits

### **NUR 352 Nursing Research**

*Prerequisite: NUR 342, CFS 221, BIO 212 (formerly 322). 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 data. Students will focus on the use of evidenced -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/or 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. Course Fee: \$ 0 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. Students by the end of this course are prepared to deliver holistic nursing care to individuals with minimal assistance, preparing them for their Capstone course NUR 450. Caring is the paradigm for this course and expands concepts of critical thinking, nursing, person, environment, and health. 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/or Professional Nursing Practice*. Four hours of class each week and 84 hours of clinical per term, Appropriate standardized exam(s) may be required. NOTES: Taken Spring Term of junior year. Course Fee: \$45. 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. NOTE: Taken Spring Term of the sophomore year. Course Fee: \$20 1 Course Credit

### **NUR 355 Pediatric Nursing**

*Prerequisite: NUR 350 Offered: Spring Term 2012* 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. Caring is the paradigm for this course and expands concepts of critical thinking, nursing, person, environment, and health. 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(s) may be required. NOTE: Taken Spring Term of junior year. Course Fee: \$45. 1 Course Credit.

### **NUR 358 Child Health and Assessment (CFS)**

*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 healthcare 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 (formerly 322); 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. 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/families in congruence with the "American Association of Colleges of Nursing's (AACN's) *Essentials of Baccalaureate Education/or 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 senior year. Course Fee: \$163. 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 within the caring paradigm. 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. 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/or Professional Nursing Practice* and the Standards of Community Health Nursing Practice. Community-based clinical practice settings include a variety of health and social agencies in nearby Appalachian counties, including schools, community services, health departments, and homes. This course includes two 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 senior year. Course Fee: \$163. 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. Caring is the paradigm for this course and expands the concepts of critical thinking; nursing, person, environment, and health, 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. NOTES: Taken Spring Term of senior year. Course Fee: 595. 1 Course Credit

### **NUR 450 Synthesis in Nursing Practice**

*Prerequisites: NUR J50 and 448 (formerly NUR 347 and 348)*

*Offered: Typically every Spring Term*

This capstone course focuses on the delivery of nursing care to children and adults with multiple, complex health problems. Caring is the paradigm for this course and expands concepts of critical thinking, nursing, person, environment, and health. Students will 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) students will learn the nurse's role in the interdisciplinary team approach to delivering health promotion, maintenance and restoration. Test-taking skills will be addressed. A clinical component will provide opportunity for the student in 10 master areas of recognized need. Four hours of class each week and 240 hours of clinical per term will be included. Appropriate standardized exam(s) are required. NOTE: Taken Spring Term of senior year. Course Fee: \$230. 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: Sophomore or junior standing/or 390; senior standing/or 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*

### **NUR 395/495 Internship**

*Prerequisite: Sophomore, junior, or senior standing*

*Offered: Typically every term*

*See Academic Programs and Courses in this Catalog & Student Handbook/or 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/or general description. 1 Course Credit*

## **PEH**

### **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**

*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.

NOTE: Noncredit for students who completed PEH 120/220. 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. NOTE: Noncredit for students who completed PEH.120/220. 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. 1.5 Course Credit

## **PED**

### **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 II4-credit Activity requirement. ) 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 or permission of instructor*

*Offered: Typically alternate Spring Terms (next offered Spring 2012)*

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 2012)*

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 2011)*

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 alternate years (next offered Spring 2012)*

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 149 Dancing Through Space and Time**

*Prerequisite: GSTR 110 (or waiver)*

*Offered: Typically annually (next offered Fall 2011)*

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. 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 1013)*

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 Spring Terms (first offered Spring 2012)*

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 (next offered Spring 2012)*

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. NOTE: Noncredit for students who completed PED 309. 1 Course Credit

### **PED 280 Adapted Physical Education**

*Prerequisite: PEH 100 or permission of instructor*

*Offered: Typically alternate Spring Terms (next offered Spring 2012)*

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 2012)*

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 (first offered Spring 2012)*

The focus of this course is the study of basic principles of motor learning, motor control, and motor development as they relate to human voluntary movement. The course will involve applications of principles to performance (acquisition of skill), throughout the life span, from infancy to older adulthood. 1 Course Credit

**PED 335 Integrated Biomechanics and Exercise Physiology I** *Prerequisite: Completion or waiver of MAT OJ 2; and BIO 101*

*Offered: Typically alternate Fall Terms (next offered Fall 2011)*

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 alt. Spring Terms (next offered Spring 2012)*

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 major-s. 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 10J and FED 260 (formerly 309) .Offered: Typically every third year (next offered Spring 2012)*

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 MAT01 2; 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-1 2 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/or 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/or 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 PED major course; junior or senior standing (junior pre/erred)*

*Offered: Typically every Fall Term*

This Seminar 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 Of 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/or general description. 1 to 3 Course Credits*

**PED 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/or 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: PEH 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 (next offered Spring 2012)*

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 alternate years (first offered Spring 2012)*

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 (AST)**

*Prerequisite: PEH 100 or permission of instructor*

*Offered: Typically alternate years (next offered Spring 2012)*

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 all terms for which a particular sport is scheduled. For example, intercollegiate: basketball is scheduled during both Fall and Spring Terms. Students must register by specific section as follows:

206A 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

206G Basketball -Women (see note above)

206 H Basketball -Men (see above Note)

206I Track And Field -Men

206 J Track and Field -Women

206K Tennis -Men

206 L Baseball

206M Golf

206N Softball -Women                      1/4 Course Credit Each

### **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 (AS1)**

*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 dance-like. 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 2011-2012)*

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 blocks, 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 (next offered Spring 2012)* '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*

Introduction 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. PED 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*

*Offered: Typically alternate Fall Terms (next offered Fall 1011)*

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 2011)*

Studies and exercises to aid the acting student or vocal performer in understanding the physical aspects of character: physical and emotional energy now, 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 (next offered Spring 2012)*

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 2012)*

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 2011)*

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 21 1 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: PEH 100 or 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: PEH 100 or permission of instructor*

*Offered: Typically annually (next offered Spring 2012)*

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 Campcraft**

*Prerequisite: PEH 100 or permission of instructor*

*Offered: Typically Fall Term (next offered Fall 2011)*

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 (next offered Fall 2011)*

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 (next offered Fall 2011)*

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. Noncredit for students who completed it as *PEDI26/GST 126*. 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 2012)*

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

## **Philosophy**

**PHI 100 Introduction to Philosophy**

*Offered: Typically annually (next offered Spring 2012)*

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

**PHI 104 Morality, Law, and Philosophy**

*Offered: Typically annually (next offered Fall 2011)*

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

**PHI 106 Introductory Reasoning**

*Offered: Typically annually (next offered Spring 2012)*

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 (next offered Spring 2013)*

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 2012)*

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 2011-2012)*

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 Fall 2012)*

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

**PHI214 Approaches to Ethics**

*Prerequisite: GSTR 210 or sophomore standing Offered: Typically annually (next offered Fall 2011)* 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

**PHI215 Thinking About God**

*Prerequisite: GSTR 210 Offered: Typically alternate years (next offered 2011-2012)*

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

**PHI218 Symbolic Logic**

*Prerequisite: Completion or waiver of MAT 012*

*Offered: Typically alternate years (next offered 2011-2012)*

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 2011-2013)*

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 standing*

*Offered: Typically alternate years (next offered 2011-2012)*

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 Spring 2013)*

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 2012)*

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 a 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 (next offered Fall 2011)*

An examination of philosophy in ancient Greece and the Roman world - texts, ideas, and figures. Emphasis will be placed on the works of Plato and Aristotle, Western History Perspective. 1 Course Credit

**PHI 310 Philosophy from Descartes to Kant**

*Prerequisite: One PHI course*

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

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

**PHI315 Kant and his Philosophical Legacies**

*Prerequisite: One PHI course*

*Offered: Typically alternate years (next offered 2011-2012)*

An examination of selected philosophic topics, themes, or movements in 19th and 20<sup>th</sup> 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 30G-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/or 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 [or 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 397/497A 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*

### **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*

## **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, heat, and energy. Three one-hour periods each week and one two-hour period for discussion or laboratory work. 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 wave motion, fluids, electricity & magnetism, electric circuits, light and optics. 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. 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, momentum, and energy. Topics to be covered include Newtonian dynamics, fundamental forces, 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, 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. Four one-hour lectures each week. 1 Course Credit

### **PHY 330 Mathematical Methods in Physics II**

*Prerequisites: PHY 225 (formerly PHY 325) and MAT 225; OR permission of instructor*

*Offered: Typically alternate years (next offered Spring 2012)*

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 (next offered Fall 2011)*

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 as student interest and faculty availability allow*

A laboratory course dealing with some of the important experimental techniques in modern physics involving experience with such things as vacuum systems; electronic design and shop construction; classical 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. 1/4 Course Credit

### **PHY 365 Thermal Physics**

*Prerequisites: PHY 315 and MAT 215; OR permission of instructor*

*Offered: Typically alternate years (next 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 2011)*

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. 1 Course Credit

**PHY 482 Quantum Physics**

*Prerequisites: PHY 320 and 481; OR permission of instructor*

*Offered: Typically alternate Spring Terms (next offered Spring 2012)*

An intermediate course in quantum mechanics, with applications. Topics include Schrödinger'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 310; 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 (next offered term yet to be determined)*

A course centered around readings, experiments, and research on topics approved by program faculty. The seminar emphasizes oral presentations, discussion, and preparation of written reports. Normally taken in the senior year, it is open to other advanced students with permission. 1/4 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 397/497A 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*

**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 201 American Political Thought (HIS)**

*Offered: Typically every third year (next expected to be offered 2012-1013)*

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 2012)*

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 2013)*

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 Fall 2012)*

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 2011-2012)*

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. NOTE: Noncredit for students who completed PSC 320. 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. NOTE: Noncredit for students who completed PSC 335. 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. NOTE: Noncredit for students who completed PSC 350. 1 Course Credit

### **PSC 314 American Constitutional Law**

*Prerequisite: PSC 110 or permission of instructor*

*Offered: Typically every third year (next offered 2011-2012)*

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 to be determined)*

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 2012-2013)*

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 2013-2014)*

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 2011-2012)*

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 2011)*

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 2012)*

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 (formerly 350)*

*Offered: Typically alternate years (next offered Fall 2012)*

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 (first offered Fall 2012)*

A study of the global economy and the interplay of collective interests, and governmental and nongovernmental 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 (formerly 335); 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 397/497A 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*

**PSC 398/498 Directed Study**

*Prerequisites: Will vary, but a/ways 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*

## **Peace and Social Justice**

**PSJ 100 Foundations of Peace and Social Justice**

*Offered: Typically every Fall Term*

This course provides an introduction to issues of peace and social justice, skills of social analysis, and actions for social change. The 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 2012).*

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 20<sup>th</sup> and 21<sup>st</sup> 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 (AFR/APS/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

**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: To be determined*

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. 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. ½ 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/or 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/or 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. NOTE: Noncredit for students who completed PSY 307. 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**

*Prerequisite: PSY 100*

*Offered: Varies (next offered Fall Term, 2011)*

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**

*Prerequisite: Completion of the Social Science Perspective & Practical Reasoning with Qualitative Emphasis (PRQ)*

*Offered: Typically annually (next offered Fall 2012)*

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 (next offered Spring 2012)*

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 /00 or permission of instructor*

*Offered: Typically every Fall Term (next offered Fall 2012)*

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 (next offered Spring 2012 )*

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 BID 1000r 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: Varies (next offered Spring Tenn. 2012)*

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 SOC 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 (formerly 311)*

*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 (formerly 311)*

*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. 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/or 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 3971497A or B Team Initiated Study**

*Prerequisite: Sophomore or junior standing/or 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 (next offered Fall 2011)*

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 alternate years (next offered Fall 2011)*

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: Typically annually (next offered Spring 2012)*

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 a/female years (next offered 2011-2012)*

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 (next 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 2011)*

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 (next offered Spring 2012)*

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 (next offered Fall 2011)*

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 (next offered Spring 2012)*

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 (next offered 2012-2013)*

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 2012-2013)*

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

**REL 215 History of Christianity to 1600 (HIS)**

*Prerequisite: GSTR 210*

*Offered: Typically alternate years (next offered 2011-2012)*

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 sophomore standing*

*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 2013)*

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 (next offered Spring 2012)*

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 2012)*

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 234 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 235 Christian Social Ethics**

*Prerequisite: GSTR 210*

*Offered: Typically alternate years (next offered Spring 2012)*

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 2012-2013)*

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 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 2012)*

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 1012)*

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. 1 Course Credit

**REL 309 Themes in Abrahamic Traditions**

*Prerequisite: One 200-level REL course Offered: Typically alternate years (next offered 2013-1014 )*

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. 1 Course Credit

**REL 310 Advanced Old Testament Studies**

*Prerequisite: GSTR 310 or REL 205 or REL 207*

*Offered: Typically alternate years (next offered 2012)*

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. 1 Course Credit

**REL 311 Advanced New Testament Studies**

*Prerequisite: REL 205 or REL 207*

*Offered: Typically alternate years (next offered Fall 2011)*

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. 1 Course Credit

**REL 312 Themes in Religious Thought and Ethics**

*Prerequisite: One 100-level REL course or permission of instructor*

*Offered: Typically alternate years (next offered Fall20J 3)* 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. 1 Course Credit

**REL 480 Seminar in Religion**

*Prerequisite: Senior standing or permission of instructor*

*Offered: Typically annually (next offered Fall10J 1)*

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/or 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 397/497A or 8 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*

## **SENS**

**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 annually (next offered Fa1120J J)*

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. NOTE: Noncredit for students who completed GST/SENS 210. 1 Course Credit

**SENS 225 Environmental Justice (AFRIAPS/PSJ/WGS)**

*Prerequisite: GSTR 210*

*Offered: Typically alternate years (next offered Spring 2012)*

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. NOTE: Noncredit for students who took SENS 460 in Fall 2005 or Fall 2006. 1 Course Credit

### **SENS 310 Ecology**

*Prerequisite: A laboratory-science course*

*Offered: Not expected to be offered in future*

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 (next offered Fall 20J 2)*

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 TEC 130*

*Offered: Typically every Fall Term*

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). ISO 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 397/497A or B Team Initiated Study**

*Prerequisite: Sophomore or junior standing/or 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*

## 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 (next offered Fall 2011)*

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 (next offered Fall 2011)*

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 2J 0*

*Offered: Typically alternate years (next offered Fall 2011)*

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 (WCS)**

*Prerequisite: SOC 100 or PSY 100 or CFS 130 AND GSTR 210*

*Offered: Typically alternate years (next offered Fall 2012)*

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 317 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 (APS)**

*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-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 0/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 anti/acuity availability allow (next expected to be offered Fall 2011)*

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. NOTE: Noncredit for anyone with credit in PSY 305. 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 10 be offered Fall 2012)* 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. 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 GSTR 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 interorganizational 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 SOC 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 397/497A or B Team Initiated Study**

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

## Spanish

**SPN 101 Introduction to Spanish**

*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 (next offered Fall 2011)*

A broad survey from pre-history to present as viewed through Spain's culture, art, literature, and customs. 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 (next offered Fall 2011)*

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 (next Offered Fall 2011)*

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 (next offered Spring 2011)*

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 2012, 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 (next 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 (next 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 2011) 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 Topic.**

*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 397/497A 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*

### **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*

## **TAD**

### **TEC 110 Technology I**

*Offered: Typically every Fall Term*

A course relating the fundamentals of technology with emphasis on the study of tools, processes, materials, and organizational structures that provide goods and services to society. The major units to be investigated include communications, power, energy, and transportation. Practical Reasoning (PR).

Course Fee: \$10. 1 Course Credit

### **TEC 111 Technology II**

*Offered: Typically every Spring Term*

A course relating the fundamentals of technology with emphasis on the study of tools, processes, materials, and organizational structures that provide goods and services to society. The major units to be investigated include materials and processes, manufacturing, and construction. Course Fee: \$10. 1 Course Credit

### **TEC 118 History of Technology**

*Offered: Typically every Fall Term*

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

### **TEC 130 Engineering Graphics**

*Offered: Typically Fall and Spring Terms*

A study of the fundamentals of engineering graphics using both manual and computer-aided systems. Topics may include sketching, orthographic projection, dimensioning, pictorial drawings, and architectural drawings, as they relate to production. Course Fee; \$10. 1 Course Credit

### **TEC 140 Production Technology in Woods**

*Offered: Typically Fall and Spring Terms (except in terms when TEC 340 is offered)*

A study of selected production processes through considerations of wood and wood materials. The course encompasses material properties, ergonomic design, prototyping, production design, and primary and secondary processing. Instruction will include material selection, design, problem solving, fabrication, and finishing. Course Fee: \$10. 1 Course Credit

### **TEC 180 Graphic Communication**

*Offered: Typically Fall and Spring Terms (except in terms when TEC 382 is offered)* A study of the fundamental materials, processes, and technology used in graphic communications. Topics may include layout and design, printing methods, photography, digital imaging, and desktop publishing, for both print and electronic media. Arts Perspective. Course Fee: \$10. 1 Course Credit

### **TEC 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

### **TEC 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 craftsperson, 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

### **TEC 250 Production Technology in Metals**

*Prerequisite: Completion or waiver of MAT 012; or permission of instructor*

*Offered: Typically Fall and Spring Terms*

A study of selected production processes using metal materials. The course encompasses material properties, design, prototyping, problem solving, and production design. Instruction also will include the cutting, forming, fastening, machining, casting, and finishing of metals. Course Fee: \$10. 1 Course Credit

### **TEC 251 Metal Casting**

*Prerequisite: Completion or waiver of MAT 012; or permission of instructor*

*Offered: Typically as student interest and faculty availability allow*

This course will provide an in-depth study of non-ferrous metal casting tools, materials, and processes. Subjects to be explored include patterns and pattern making, mold design, mold making, molding, 'properties and uses of metals, and discussions of the state-of-the-art foundry operations. Use of the microcomputer as a design tool and problem-solving device in several aspects of foundry study will be emphasized. Course Fee: \$15. 1 Course Credit

### **TEC 265 Electrical Fundamentals**

*Prerequisite: Completion or waiver of MAT 012; or permission of instructor*

*Offered: Typically Fall and Spring Terms (except in terms when TEC460 is offered)* A study of alternating current (AC) and direct current (DC). Topics may include circuits, resistance, power, solid state devices, and use of electrical measuring instruments. Practical Reasoning with Quantitative Emphasis (PRQ). Course Fee: \$10. 1 Course Credit

### **TEC 275 Power Technology**

*Prerequisite: Completion or waiver of MAT 012; Or permission of instructor*

*Offered: Typically Fall and Spring Terms*

A study of the design and operation of power-related devices with provision for in-depth study and research. Topics may include power-conversion systems, power-transfer systems, and alternative energy. Course Fee: 510. 1 Course Credit

### **TEC 330 Computer Aided Drafting and Design**

*Prerequisite: TEC 130 or permission of instructor*

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

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

### **TEC 340 Advanced Studies in Woodworking**

*Prerequisite: TEC 140 or permission of instructor*

*Offered: Typically alternate years (next 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

### **TEC 352 Quality Control**

*Prerequisite: TEC 130; MAT 105 OR completion or waiver of MAT 115; OR permission of instructor*

*Offered: Typically alternate years (next offered Fall 2011)*

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

### **TEC 382 Computer Graphics**

*Prerequisite: TEC 180 or permission of instructor*

*Offered: Typically alternate years (next expected offering to be determined)*

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

### **TEC 392 Work Learning Experience**

*Prerequisite: Admission to major or permission of instructor*

*Offered: Typically Fall and Spring terms*

Student Labor learning experiences of at least one year (two regular terms or equivalent) related to the student's major. Required of all majors. Noncredit Course

### **TEC 455 Computer Integrated Manufacturing**

*Prerequisite: TEC 130; MAT J05 OR completion or waiver of MAT 115; OR permission of instructor*

*Offered: Typically alternate years (next expected to be offered 2011-2012)*

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

### **TEC 460 Solid State Electronics**

*Prerequisite: TEC 165 or permission of instructor*

*Offered: Typically alternate years (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

### **TEC 470 Advanced Power Technology ,**

*Prerequisite: TEC 275 or permission of instructor*

*Offered: Typically alternate years (next expected to be offered 2011-2012)*

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

### **TEC 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*

### **TEC 489 Seminar in Technology**

*Prerequisite: Senior standing or permission of instructor*

*Offered: Typically every Spring Term*

Concepts not offered in the laboratory courses will be presented. Included will be selected philosophic, historic, and current issues related to Technology and Industrial Arts. 1 Course Credit

### **TEC 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*

**TEC 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*

**TEC 397/497 A or B Team Initiated Study**

*Prerequisite: Sophomore or junior standing/or 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*

**TEC 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*

## Theatre

**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 (not offered Fall 2011)*

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 (next offered Fall 2011)*

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 as student interest and faculty availability allow*

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. NOTE: Noncredit for students who completed THR 186B: *Film Production I* in Fall 2007. 1 Course Credit

**THR 213 First Theatre in Human Cultures**

*Prerequisite: THR 105*

*Offered: Typically annually (next offered Fall 2011)*

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**

*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. NOTE: Noncredit for students who completed THR 118. 1 Course Credit

**THR 220 Seminar in Design and Production**

*Offered: Typically annually (next offered Spring 2012)*

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 2012)*

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. NOTE: Noncredit for students who completed THR 127. 1 Course Credit

**THR 308 Seminar in Theatre History**

*Prerequisite: THR 105*

*Offered: Typically annually (next offered Fall 2011)*

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 or 119 (the latter no longer offered at Berea): AND THR 115; AND THR 213 (preferred) Or THR 308*

*Offered: Typically alternate years (next offered Fall 20J 2)*

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 (next offered Spring 2012)*

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 Spring 2013)*

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 20<sup>th</sup> and 21<sup>st</sup> 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. NOTE: Noncredit for students who completed THR 325. 1 Course Credit

**THR 481 Senior Theatre Project**

*Prerequisite: Senior standing only*

*Offered: Typically annually (next offered Fall 2011)*

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 as student interest and faculty availability allow*

*See Academic Programs and Courses in this Catalog for general description. 1/2 or 1 Course Credit*

**THR 390/490A or B Independent Study**

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

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

*See Academic Programs and Courses in this Catalog/or general description. 1 Course Credit*

**TBR 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*

**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 for general description.*

*1 Course Credit*

## **Women and Gender Studies**

**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 Fall 2012)*

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 13S 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 the investigation of contemporary electoral politics, governance, grassroots politics, and public policy. Students examine the progress of 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, 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

**WGS 220 Gender in Appalachia (APS) .**

*Offered: Typically as student interest and faculty availability allow (0 be offered in Fall 2012)* 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 breast feeding, but we will also study issues such as environmental health, violence against women, and AIDS as a global health problem. 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/or general description. 1/2 to 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. 1 Course Credit*

**WGS 398/498 Directed Study**

*Prerequisite: 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*