

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 2010)

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 or 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/WST)

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 explore the writings of African-American women as a separate and distinct cultural group with 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 2010)

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 (offered Spring Term only in 2010-2011, as an exception)

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/WST)

Prerequisite: GSTR 210

Offered: Typically alternate Fall Terms (next offered Fall 2010)

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. 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 212 Literature of Caribbean Women (ENG/WST)

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, 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

AFR 222 Introduction to African-American Studies

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually (offered Fall and Spring terms in 2010-2011, as an exception)

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/WST)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Spring 2011)

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 2011)

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 the 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 (next offered term yet to be determined)

The study of African-American music and musicians within the general framework of American society, tracing the development of the music from its African origins to its impact upon and fusion with American music and culture. Although the main focus will be placed upon music indigenous to African-American culture, study will encompass significant African-American musicians in the European classical music tradition. Arts perspective and African Americans', Appalachians', Women's Perspective. 1 Course Credit

AFR 260 Survey of African History (HIS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually (next offered Fall 2010)

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 addresses. World Culture (Non-Western) component of the International Perspective. 1 Course Credit

AFR 270 Sub-Saharan African Art (ARH)

Prerequisite: GSTR 210

Offered: Typically as student interest and faculty availability allow

An art and cultural study of the sculptural and Architectural traditions of the peoples of West and Central Africa. Arts perspective and a World Culture (Non-Western) component of the International Perspective, NOTE: Noncredit for students who took this course as ART 270. 1 Course Credit

AFR 305 Interracial Communication (COM)

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically alternate years (first offered Spring 2011)

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 356 Seminar In African-American History (HIS)

Prerequisites: HIS 161 and 162; or AFRJHIS 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 186/28613861486 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

AFR 390/490A or B Independent Study

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

AFR 395/495 Internship

Perquisite: 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

AFR 397/497A or B Team Initiated Study

Prerequisite: Sophomore or Junior standing of 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

AFR 398/498 Directed Study

Prerequisites: will vary but always will include permission of instructor

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

Agriculture and Natural Resources

ANR 100 Intro. to Agriculture and Natural Resources

Offered: Typically every Fall Term (also offered Spring 2011, as an exception)

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 Laboratory 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 Laboratory 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 BID 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 Systems

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 yet to be determined)

Causes, symptoms, treatments, and diagnoses of animal diseases with emphasis on prevention and control. Three lectures and one laboratory session 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 20 12)

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 alt. Spring Terms (next offered Spring 2011)

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 alt. Spring Terms (next offered Spring 2011)

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

1 Course Credit

ANR 360 Forest and Wildlife Management

Prerequisite: ANR 130 or ANR 110 or BIO 110

Offered: Typically alt. Spring Terms (next offered Spring 20 12)

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 I 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 I Course Credit

ANR 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

ANR 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 Department Chairperson

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 Department. 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 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

ANR 398/498 Directed Study

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

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

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

1 Course Credit

Appalachian Studies

APS 121 Appalachian Cultures

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

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 2010)

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 (offered Fall 2010 & Spring 2011, as an exception)

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 (offered Fall 2010 & Spring 2011, as an exception)

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 craftspeople, 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 2010)

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 (WST)

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

APS 224 Appalachian Music (MUS)

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

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

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Spring 2011)

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 Fall 2010 & Spring 2011, as an exception)

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 IJO (or waiver)

Offered: Typically annually (next offered Spring 2011)

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 11 0 (or waiver)

Offered: Typically alternate years (next offered Fall 20J 0)

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.

NOTE: Students who have previously completed ARH 121 or 124 (formerly ART 120 or 124) or ART 186 (in 2007-2008 or 2008- 2009), may repeat this course with permission of the instructor.

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.

NOTE: Students who have previously completed

ARH 121 or 124, (formerly ART 120 or 124) or ART 186 (in 2007-2008 or 2008- 2009), may repeat this course with permission of the instructor.

1 Course Credit

ARH 232 Classical Art and Archaeology

Prerequisite: GSTR 210

Offered: Typically alternate years (first offered Fall 2011)

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 (first offered Fall 2010)

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. 'OTE: 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 (first offered Spring 2012)

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 (first offered Spring 2012)

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 (first offered Spring 2011)

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 2012-2013)

A survey of Medieval art in the West and the East from the early Christian period just prior to the advent of Constantine through the end of the French Gothic period and the Byzantine Empire. Arts Perspective and Western History Perspective. NOTE: Noncredit for students who took 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 instructor

Offered: Typically every Fall Term

Nineteenth-century revolutions in art (painting, sculpture, architecture) and their impact on 20th-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 246 Modern Architecture

Prerequisite: GSTR 210

Offered: Typically as student interest and faculty availability allow

The development and styles of European and American architecture. Emphasis will be given to revival and archaeological influences, technology and new materials, and society and personalities during the 19th and 20th centuries. Arts Perspective and Western History Perspective. NOTE: Noncredit for students who took this course as ART 246. 1 Course Credit

ARH 248 Islamic Art and Architecture (AST)

Prerequisites: 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

ARH 250 Indian and Southeast Asian Art History (AST)

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

ARH 262 Italian Renaissance Art

Prerequisite: GSTR 210

Offered: Typically as student interest and faculty availability allow (next offered Fall 2010)

A study of the arts of Italy from 1401 to 1564 and the personalities, the social and political events, and the philosophies that interacted, shaped, and helped create them. Arts Perspective and Western History Perspective. NOTE:

Noncredit for students who took this course as ART 262. 1 Course Credit

ARH 267 Colonial and Modern Latin American Art

Prerequisite: GSTR 210

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

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 270 Sub-Saharan African Art (AFR)

Prerequisite: GSTR 2/0

Offered: Typically as student interest and faculty availability allow

An art and cultural study of the sculptural and architectural traditions of the peoples of West and Central Africa. Arts Perspective and a World Culture (Non-Western) component of the International Perspective. NOTE: Noncredit for students who took this course as ART 270.

1 Course Credit

ARH 275 Pre-Columbian Art

Prerequisite: GSTR 210

Offered: Typically as student interest and faculty availability allow

The art, architecture, and culture of Mexico, Central America, and Western South America from pre-Columbian to modern times. Arts Perspective. NOTE: Noncredit for students who took this course as ART 275.

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 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

ART 110

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 (offered Fall 2010 and possibly Spring 2011, as an exception)

This course is an introduction to techniques and problem solving. A study of print making 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 Fall and Spring terms

This course is an introductory studio experience that explores media and practice. Student understanding will expand and propel learning as a modern media-acrylic paint on board or canvas is employed. Using paint in a structured sequence, students will acquire essential skills and methods of problem-solving and critical analysis, as well as verbal articulation of goals, means, and outcomes. Study of historical and contemporary paintings will provide information, influence, and inspiration. Arts Perspective. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 122 Ceramic Production

Prerequisites: Labor position in the Ceramic Apprenticeship Program and permission of instructor

Offered: No plans to offer this course in future

A study of the specific problems encountered when designing and executing a repetitive form.

Emphasis on development of design for functional forms produces in coordination with the Ceramic Apprenticeship Program. Six studio hours each week. Course Fee: \$15, plus the cost of materials. (May not be repeated for credit).

1 Course Credit

ART 123 Ceramics I

Offered: Typically Fall and Spring terms

An introductory studio experience with the medium of clay, including ceramic forming, glazing, and firing. Ceramic techniques will be studied, along with current art/craft theory and ceramic history. Six in-class studio hours each week. Arts Perspective. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 125 Fibers I

Offered: Typically every Spring Term

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

1 Course Credit

ART 130 Sculpture I

Offered: Typically every Spring Term

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

1 Course Credit

ART 206 Drawing II

Prerequisites: ART 110 and 115

Offered: Typically every Spring Term

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

1 Course Credit

ART 211 Printmaking II

Prerequisites: ART 110, with a grade of C or higher, and ART 111; or permission of instructor
Offered: Typically every Spring Term

This course will present additional techniques not offered in ART III and introduces conceptually based problem solving. Students will employ intaglio and relief techniques, including dry point and woodcut. Six in-class studio hours each week.

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

1 Course Credit

ART 216 Painting II

Prerequisites: ART 110 and ART 115 with grades of C or higher; or permission of instructor

Offered: Typically every Spring Term

This course will present additional techniques not offered in ART 116 and introduce conceptually based problem solving. Six in-class studio hours each week. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 223 Ceramics II

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

Offered: Typically every Spring Term

An expanded study of ceramic forming, glazing, and firing techniques through an introduction of conceptually based problem-solving assignments.

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

1 Course Credit

ART 225 Fibers II

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

Offered: Typically every Fall Term

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

1 Course Credit

ART 230 Sculpture II

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

Offered: Typically every Fall Term

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

1 Course Credit

ART 236 Foundations of Art Education

Prerequisite: GSTR 110 (or waiver)

Offered: Typically as student interest and faculty availability allow

Designed for the Art major preparing to teach at the secondary level and/or the elementary level. This course meets K-12 certification requirements. Art majors planning careers in occupational therapy, special education, or community art programs also would benefit from this course. Lecture-studio experiences in creative methods of teaching the visual arts, materials, techniques, concepts, and the relation of art to the needs of different age levels; and trends and philosophies of Art Education. Public-school observation and practicum required. Course Fee: \$15, plus the cost of materials.

1

Course Credit

ART 263

Introduction to Museum Work

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically alternate years (next offered Fall 2010)

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

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

Prerequisite: ART 216 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 323 Ceramics III

Prerequisite: ART 223 or permission of instructor
Offered: Typically every Spring Term

An advanced study of ceramics including forming, glazing, and firing techniques, in the context of personally derived conceptual objectives. 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

Prerequisite: ART 316 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 423 Ceramics IV

Prerequisite: ART 323 or permission of instructor
Offered: Typically every Spring Term

An advanced study of ceramics focusing on the production of a conceptually based independent body of work. This work may become the basis for the student's senior exhibition. Six in-class hours each week. Course Fee: \$15, plus the cost of materials.

1 Course Credit

ART 425 Fibers IV

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 and Art: General; taken in the last regular term of residence. Noncredit Course

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 Department

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

ART 493 Senior Seminar

Prerequisite: ART 325 or permission of instructor

Offered: Typically every Fall Term (also offered Spring 2011, as an exception)

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 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

ART 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 for general description.

1 Course Credit

ART 398/498 Directed Study

Prerequisite: 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

Asian Studies

AST 101

Introduction to Japanese I (JPN)

Prerequisite: Permission of instructor

Offered: Typically offered every Fall Term

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

1 Course Credit

AST 102 Introduction to Japanese II (JPN)

Prerequisite: AST/JPN 101 with a grade of C or higher or permission of instructor

Offered: Typically every Spring Term

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

1 Course Credit

AST 103 Introduction to Japanese III (JPN)

Prerequisite: AST/JPN 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

AST 104 Introduction to Japanese IV (JPN)

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

Offered: Typically every Spring term (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 of Japan (HIS)

Offered: Typically every Spring Term

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

1 Course Credit

AST 204 Yoga (PED)

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate years (first offered Spring 2011)

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

AST 205 Tai Chi (PED)

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate years (first offered Fall 2010)

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 designed scientifically 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 (first offered Spring 2011)

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 231 Religions of India and Tibet (REL)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Fall 2011)

A study of the principal religious traditions of South Asia: Buddhism, Hinduism, Islam, Jainism, and Sikhism. 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 232 Religions of China and Japan (REL)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Fall 2010)

A study of the principal religious traditions of East Asia: Buddhism, Confucianism, Shinto, and Taoism. 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 248 Islamic Art and Architecture (ARH)

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Fall 2009)

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 expected to be offered Spring 2012, as an exception)

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

Offered: Typically alternate years (next offered Spring 2010)

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: ASTIHIS 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: ASTIHIS 122 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 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2 or 1 Course Credit

AST 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

AST 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

1 to 3

Course Credits

AST 397/497A or B Team Initiated Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

AST 398/498 Directed Study

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

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

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

1 Course Credit

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 2010)

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 Lab Course.

1 Course Credit

BIO 101 Human Anatomy and Physiology I

Prerequisite: Completion or waiver of MAT ala. 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.

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), BIO323, 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 BIOI 1 3 (formerly 313), or permission of instructor; a sophomore-level course

Offered: Typically every Fall Term (next offered Fall 2011, as an exception)

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 221 (formerly CHM 321); OR permission of instructor; a sophomore-level course
Offered: Typically Fall and Spring terms

Offered: Typically Fall and Spring terms (offered Spring 2011 only in 2010-2011, as an exception)

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 no and II3 (formerly 313); AND CHM 221 (formerly 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 2010)

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

1 Course Credit

BIO 325 Neurobiology

Prerequisite: BIOI 13 (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.

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 alt. Spring Terms (next offered Spring 2011)

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: BID 11 3 and 11 4 (formerly BID 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: BID 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 2010)

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: BID 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: BID 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: BID 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: BID 113, 114 (formerly BID 313,314), CHM 222 (formerly CHM 322), OR permission of instructor; BID 222 (formerly BID 322) is suggested strongly; a senior-level course
Offered: Typically alt. Fall Terms (next offered Fall Term 2010)

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; full-time during Short Term. 1/2 or 1 Course Credit

BIO 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description. NOTE: Designed for the qualified student to pursue Faculty-directed primary research, or conduct a special study of a biological topic using primary literature sources, and development of special techniques in a biological specialization. A satisfactory paper and oral presentation are required.

1 Course Credit

BIO 494 Evolution

Prerequisite: Senior standing or permission of instructor

Offered: Typically every Spring Term

Capstone course required for all senior-level Biology majors. A study of the processes, concepts, and philosophical implications of the modern theory of biological evolution. Topics range from chemical evolution and the origin of life to macroevolutionary trends in adaptive radiation and extinction. Examples from various taxa are employed to examine concepts such as species and speciation, evolutionary rates, and the role of chance events in the evolutionary process. Evolutionary theory is examined in relation to its ability to explain biological complexity and structural anomalies in various taxa including humans. Three two-hour class periods each week.

1 Course Credit

BIO 395/495 Internship

Prerequisite: Sophomore, junior; or senior standing

Offered: Typically every term

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

1 to 3

Course Credits

BIO 397/497A 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

BIO 398/498 Directed Study

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

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

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

1 Course Credit

Chemistry

CHM 101 Foundations of Chemistry

Prerequisite: Completion or waiver of MAT OJO or concurrent Enrollment in MAT 011 of both MAT 012 and CHM 101

Offered: Typically every Fall Term

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

regularly offered Berea College CHM courses.

1 Course Credit

CHM 113 Allied Health Chemistry

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

Offered: Typically every Spring Term

A study of chemistry related to the allied health fields. This course covers significant biochemistry content emphasizing the nature and activity of physiological substances and metabolic pathways while starting at the fundamentals of general chemistry. Also included will be an introduction to organic functional groups and reactions. This course meets for three hours each week with an additional two-hour laboratory session each week. Natural Science Laboratory Course. NOTE: This course is not intended for agriculture and natural resources, applied mathematics, biology, or chemistry majors. Those majors should follow the CHM 101/131/134 sequence. 1 Course Credit

CHM 131 Accelerated General Chemistry

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

Offered: Typically Fall and Spring terms

An accelerated study of general chemistry designed for students who have taken or waived CHM 10 I. Students are assumed to be familiar with topics from CHM 10 I, 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

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. This course students are prepared to enter fully a standard organic chemistry sequence without needing additional general chemistry. This course meets for three hours each week with an additional three-hour laboratory session each week. NOTES: Concurrent enrollment in MAT 115 or higher is suggested. Noncredit for students who completed CHM 121, 124, or 131.

1 Course Credit Laboratory Course

CHM 221 Organic Chemistry I

Prerequisite: CHM 131 or 134

Offered: Typically Fall and Spring terms

A study of the chemistry of carbon compounds: organic acids and bases, alkanes and cycloalkanes, stereochemistry, nucleophilic substitution and elimination, alkenes, and alkynes. Emphasis will be placed on nomenclature, physical and chemical properties, reactivity, and reaction mechanisms. This course meets for three hours of lecture per week with an additional three-hour laboratory session each week. 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 220), 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

CHM 345 Biochemistry

Prerequisite: CHM 222 (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 3JJ (formerly 341); MAT 225; PHY 218 (or concurrent enrollment) or PHY 315; OR permission of instructor

Offered: Typically every Spring Term

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

1 Course Credit

CHM 362 Quantum Chemistry

Prerequisite: CHM 311 (formerly 341), 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, and 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 Department. 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 Department. 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 2011)

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 Department. 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 37 J (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 Department. The remaining experiment will be one that the student finds in the current chemical literature and attempts to reproduce. Students will need to pay attention to their portfolio requirements in the selection of appropriate experiments. Students often will work in teams under the guidance of senior students. The last week of each term will conclude with a mini research meeting. In each of the four Advanced Laboratory terms, all students will be required to attend at least three research seminars by visiting speakers each term. All students will read an "important paper" in chemistry each term and discuss these with the instructor. In addition, students will take a written comprehensive chemistry examination as part of this course. Students will be graded *pass/fail* on this examination and may retake the exam multiple times throughout the term, if needed. Failure to

pass this examination will result in an incomplete grade for CHM 471, which will become a grade of F on the student's transcript at the end of the next regular term.

1/2 Course
Credit

CHM 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically Fall and Spring terms, at departmental 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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

CHM 398/498 Directed Study

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

Offered: Typically on a limited basis as student interest and faculty availability allow
See Academic Programs and Courses in this Catalog & Student Handbook for general description. NOTE: In this course, students conduct research under the supervision of a Chemistry instructor. Each Chemistry major must complete this course or an equivalent approved Summer One or Summer Two Term experience. This course may be repeated as often as the student and faculty mentor see fit. Students are required to present two presentations relating to their project. One presentation must be on campus and the other off campus. 1
Course Credit

Child and Family Studies

CFS 103 Food Studies I

Prerequisite: Completion or waiver of MAT 012

Offered: Typically every Fall Terms

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. Introduces principles of the life sciences in relation to foodstuffs, food chemistry, food safety, commercial food preservation, consumer marketing practices, and government standards and regulations, which 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 (next offered Fall20JO)

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 MAT012;

CFS 103; OR permission of instructor

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

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 microbiology for residential food preservation, along with examining the interrelationship of ingredients and their effects on physical, chemical, and sensory characteristics of foods. 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. Consumer concerns such as health care, credit, housing, food, clothing, savings, insurance, and protective legislation are covered. Practical Reasoning (PR).

1 Course Credit

CFS 207 Family Relations (WST)

Prerequisite: GSTR 110

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 Interdisciplinary Early Childhood Education (EDS)

Prerequisite: 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

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 habits.

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. Through selected readings, the use of artifacts, interviews, field trips, personal reflections, and hands-on opportunities, 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, ethnic groups, health practices, and other aesthetic, moral, and social norms and cultural contexts. World Culture (Western) component of the International Perspective. Course Fee: \$15.

1 Course Credit

CFS 237 Human Environments I

(Residential Housing)

Prerequisite: Sophomore standing or above

Offered: Typically every Fall Term (next offered in 2011, as an exception)

Shelter choices for individuals and families; sustainability in housing design and construction; architectural styles; universal design; and kitchen design.

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 334 Culinary Arts

Prerequisites: CFS 103 and 115; OR permission of instructor

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

This course examines the conceptual representation of food within historical, socio-cultural, psychological, artistic, and other contexts. 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 food 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 315 Middle Childhood and Adolescence

Prerequisite: CFS 130 or permission of instructor

Offered: Typically alternate Spring Terms (next offered Spring 2011)

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 350 Family Law and Policy

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

Offered: Typically alt. years (next expected to be offered Fall 2011)

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 Behavioral Management

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 2010)

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. Spring Terms (next offered Spring 2011)

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 JFSPs. 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 (next offered Fall Term 2010)

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 and CFS/EDS 210; OR permission of instructor

Offered: Typically alternate Fall Terms (next offered Fall 2010)

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

CFS 362 Contemporary Family Issues

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

Offered: Typically alt. 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 (WST)

Prerequisite: sac 100 or permission of instructor

Offered: Typically every Fall Term (next offered Fall 2012, as an exception)

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 (next offered Spring 2011)

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

Course Credit

CFS 382 Early Childhood Special Education (EDS)

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

Offered: Typically as student interest and faculty availability allow

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

Course Fee: \$15.

1 Course Credit

CFS 441 Family Resource Management

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

Offered: Typically every Fall Term

Focuses on decision-making and organizational processes to achieve individual and family goals through the effective use of resources. One-half term on the investigation of the management process; remainder of term devoted to application of concepts in Home Management House practicum. Active Learning Experience (ALE). Course Fee: \$15. 1 Course Credit

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

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

Offered: Typically as student interest and faculty availability allow

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 Department. 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 portfolio requirements.
3 Course Credits

CFS 480 Senior Seminar

Prerequisite: CFS 130, 145, 207 (also WST), 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 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.

1 Course Credit

CFS 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2 or 1 Course Credit

CFS 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

CFS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically Every term

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

1 to 3 Course Credits

CFS 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

CFS 398/498 Directed Study

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

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

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

1 Course Credit

Economics and Business

ECO 102 Principles of Microeconomics

Prerequisites: Completion or waiver of MAT 012; first-year or sophomore standing preferred
Offered: Typically Fall and Spring terms

An introduction to exchange processes, price and output determination, and alternative market structures, both in the product and resource markets. Additional topics include the role of government, public goods, income distribution, and resource or environmental economics. Social Science Perspective. 1 Course Credit

ECO 250 Applied Statistics

Prerequisites: MAT 115 (or waiver); computer competency 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 10/ or permission of instructor; and MAT 135 (or waiver)
Offered: Typically every third regular term (next offered Spring 2011)

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 2011)

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

1 Course Credit

ECO 310 Research in Economics I

Prerequisites: ECO 30101' 302, and junior standing

Offered: Typically every Spring Term (first offered Spring 2011)

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 /0/ 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 335 Managerial Economics

Prerequisites: ECO /02 and 250

Offered: Typically as student interest and faculty availability allow

A study of the application of economic decision-making processes as they relate to the management of business. This course will link together the topics of economic theory, decision sciences, and various fields of business administration.

1 Course Credit

ECO 341 Economic Development: Theory and Application

Prerequisites: One introductory course in ECO, HIS, PSC, or SOC; AND ECO 101 or 102
Offered: Typically every third regular term (next offered Fall 2010)

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. 1 Course Credit

ECO 347 International Economics

Prerequisite: ECO /02

Offered: Typically every third regular term (next offered Fall 2011)

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 /35 (or waiver)

Offered: Typically every third regular term (next offered Spring 2011 as an exception, then every third regular term beginning Fall 20/2)

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 366 Public Finance

Prerequisite: ECO 101 or 102

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

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

1 Course Credit

ECO 370 Environmental Issues in Public Policy

Prerequisite: ECO 101 or 102; or permission of instructor

Offered: Typically every third regular term (next offered Fall 2011)

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 (also offered in summer 2011, as an exception)

Economics majors are required to register for this Capstone experience during the senior year (according to the schedule agreed upon with their faculty mentor). Students enrolled in this course will pursue the research specified previously in the research proposal prepared in ECO 310. This student-led and faculty-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 470 Seminar in Economics

Prerequisites: ECO 301 and 302, or permission of instructor; senior standing preferred

Offered: This course is being replaced by ECO 310 and 410 (last offered Spring 20 II)

Advanced study in an area of micro- or macroeconomic theory and policy, based on selected texts and journals. 1 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 or junior standing for 390; senior standing for 490

Offered: Typically as student interest and faculty availability allow

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

ECO 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

ECO 397/497A 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

ECO 398/498 Directed Study

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

Business Administration

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

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 funds flow, cash flow, capital expenditures, budgeting, cost systems, volume relationships, price levels, consolidation, tax, 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 102; or permission of instructor
Offered: Typically Fall and Spring terms
An interdisciplinary consideration of the function of management in organizations with emphasis on business. Considers systems and theories, including environments, structure and processes, decision-making, planning and change, and like topics. 1 Course Credit

BUS 323 Income Tax

Prerequisite: BUS 130
Offered: Typically every third regular term (next offered 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 Fall 2010)

The utilization of accounting in management processes. Emphasis on cost-accounting systems, budgeting, responsibility accounting, differential accounting, and capital budgeting.

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 Spring 2011)

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

1 Course Credit

BUS 346 Investment Analysis

Prerequisites: BUS 130 and ECO 250;

junior or senior standing preferred

Offered: Typically every third regular term (next offered Fall 2010)

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 1/5 (or waiver); computer competency 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 Spring 2011)*

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 third regular term
next offered Spring 201 J, as an exception)*

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 J 30

Offered: Typically as student interest and faculty availability allow

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

BUS 437 Introduction to Auditing

Prerequisites: BUS 327

*Offered: Typically every third regular term
(next offered Spring 2011)*

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

BUS 475 Strategic Management

Prerequisite: BUS 315,363, and 366

Offered: Typically Fall and Spring terms

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

BUS 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2 or 1 Course Credit

BUS 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

BUS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

Course Credits

1 to 3

BUS 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

BUS 398/498 Directed Study

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

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

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

1 Course Credit

Education Studies

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

Prerequisites: GSTR 110 (or waiver) and criminal records clearance completed prior to registration
Offered: Typically Fall and Spring terms

This course is an introduction to the study of education for prospective teachers and others interested in education. The course will offer students the opportunity to explore the following essential questions: 1) What does it mean to learn? 2) What does it mean to teach well? 3) What are schools for? 4) What knowledge, dispositions, and skills are needed in order to teach well? 5) How does diversity affect teaching, learning, and schooling? The course will introduce some of the foundational ideas, issues, and beliefs—historical, political, economic, philosophical, sociological, psychological, cultural, and social—that impact the current educational climate. Students will be introduced to the Department's conceptual framework, portfolio requirements, and other academic, experiential, and professional expectations and requirements for those pursuing teacher certification. The course will include both field-based experiences and volunteer/service-learning experiences with school-aged children and/or adolescents. Course Fee: \$20. 1 Course Credit

EDS 210 Foundations of Interdisciplinary Early Childhood Education (CFS)

Prerequisites: 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 Teaching as Research: Children and School Structure

Prerequisite: EDS 150 (formerly 250); Education Studies P-5 major or permission of instructor
Offered: Typically Fall and Spring terms

This course focuses on human-development and learning theories from infancy through adolescence, with emphasis on the pre-kindergarten through intermediate years. Through reading, discussion, and related experiences, students will have the opportunity to develop understanding of significant research describing children's actions, emotions, needs, and learning; the influence of this research on classroom organization, curriculum construction, and lesson planning; and the necessity for drawing on this research in their own lifelong development as teachers. Course activities include individual and group research using both formal and informal methodologies; oral presentations and microteaching; and observing and working with children in and outside public schools.

1 Course Credit

Teaching as Research: Adolescents and School Structure

Prerequisite: EDS 150 or permission of instructor
Offered: Typically Fall and Spring terms

This course focuses on human-development and learning theories from infancy through adolescence, with emphasis on the middle and high-school aged child. Through reading, discussion, and related experiences, students will have the opportunity to develop understanding of significant research describing children's and adolescents' actions, emotions, needs, and learning; the influence of this research on classroom organization, curriculum construction, and lesson planning; and the necessity for drawing on this research in their own lifelong development as teachers. Course activities include individual and group research using both formal and informal

methodologies; oral presentations and microteaching; and observing and working with children and adolescents in and outside of public schools. 1 Course Credit

EDS 249 Middle Grades Culture and Philosophy

Prerequisites: EDS 228, Admission to Major, OR permission of instructor
Offered: Typically alternate years (first offered Fall 2010)

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 positioned between elementary school and high school, exploring the unique problems and opportunities created by this position. 1 Course Credit

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

Prerequisite: Sophomore standing or above; open to CFS Education Studies majors or permission of instructor
Offered: Typically as student interest and faculty availability allow

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

EDS 311 Methods of Teaching Secondary School Social Studies

Prerequisite: Admission to the Teacher Education Program, or permission of instructor
Offered: Typically as student interest and faculty availability allow (next offered Fall 2010)

This course introduces students to the structure of the social studies as a secondary school teaching field; provides an opportunity for students to explore various instructional approaches in the field; and enables students to examine the theoretical underpinnings of teaching practice in social-studies education. In cooperation with a local social-studies teacher, students develop and teach a social-studies unit. Additional focus extends to evaluation techniques in social studies, planning for instruction over longer periods of time (term and course-long planning), the role of multicultural education, and appropriate technology for use in the social-studies classroom. 1 Course Credit

EDS 320 Seminar in Middle/Secondary Science Teaching Methods I

Prerequisites: EDS 228, Admission to Major; OR permission of instructor
Offered: Typically alternate Fall Terms (first offered Fall 2011)

This seminar is designed for students preparing for the student teaching experience and for initial entry into the professional role of middle or secondary school science teachers. Students will deconstruct their own science learning experiences and reform them into developmentally appropriate learning experiences for adolescents in public school settings. Major topics include learning and motivation theory; scientific process; current trends in science instruction, techniques, and curricula; as well as preparation and use of scientific materials and equipment. One two-hour session one evening per week. 1/2 Course Credit

EDS 322 Seminar in Middle/Secondary Science Teaching Methods II

Prerequisites: EDS 320
Offered: Typically alt. Spring Terms (first offered Spring 2012)

This seminar is designed for students preparing for the student teaching experience and for initial entry into the professional role of middle or secondary school science teachers. Students will deconstruct their own science learning experiences and reform them into developmentally appropriate learning experiences for adolescents in public school settings. Major topics include: children as scientists, the role of discourse in science teaching, science processes, science for diverse populations,

and teaching for autonomy. One two-hour session one evening per week. 1/2 Course Credit

EDS 335 Integrated Curriculum I: Arts, Humanities, and Science

Prerequisites: EDS 227 (formerly 327) and Admission to Major; OR permission of instructor
Offered: Typically every Spring Term

This course is designed to engage students in integrating the arts, the humanities, and the natural sciences, and to initiate aspiring teachers into the construction of integrated teaching materials and design of appropriate assessment and teaching strategies. Students will have opportunities to become familiar with different aspects of natural science; i.e., science as a process, science as a body of knowledge, science as a set of values, science as a social phenomenon. They will explore themselves as scientific thinkers as they learn science. Similarly, this course will provide students with opportunities to become familiar with processes and ideas relevant to the arts and humanities. Through construction and reflection, they will find the wellsprings of their own art and stories. Students will practice thinking in community as they investigate questions that drive individual inquiry in the sciences, arts, and humanities. Students will use the understandings they gain through these experiences to articulate some important relationships among the arts, the humanities, and the natural sciences; to explore and construct some integrated teaching materials; and to reflect on teaching practices that best facilitate integrated thinking and learning. Each student will propose and carry out an integrated project with children for a minimum of five hours of experience. Course Fee: \$25. 1 Course Credit

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

Prerequisites: EDS 227 or 228 (formerly 327 or 328) AND Admission to Major
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); bilingualism; 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, the nature of family involvement, and school policies and procedures. 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 (formerly 327 or 328) AND Admission to Major; 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 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. The course includes a two-hour weekly field experience. NOTE: Noncredit for students who completed EDS 344.

1 Course Credit

EDS 347 Literacy: Primary, P-3

Prerequisite: EDS 346 and Admission to Major; 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. NOTE: Noncredit for students who completed EDS 343.

1 Course Credit

EDS 349 Education and Culture

Prerequisite: EDS 227 or 228 (formerly 327 or 328) and Admission to Major; OR permission of instructor

Offered: Typically Fall and Spring terms

This course serves an important purpose in broadening the context of traditional liberal arts approaches to the study of education by incorporating the field of Cultural Studies as a means to further problematize educational phenomena. A Cultural Studies approach signifies that educational phenomena are a manifestation of all educative aspects of a society and the world in which we live. As such, any attempt to make sense of education in a school context must draw on the multifaceted and discursive nature of how meaning is constructed, which will provide both prospective teachers and students pursuing other careers with the means for democratic reconstruction and transformation. Therefore, in using a Cultural Studies approach, this course will draw on several disciplines such as the arts, history, social sciences, humanities, media studies, science, business, etc., to problematize the nature of meaning-making with regard to culture and education. A conception of culture as texts and performances will emerge, and will thus have crucial implications in regard to the construction of meaning and social reconstruction.

1 Course Credit

EDS 355 Extended Experience in Alternative Settings

Prerequisites: Grade of B- or higher in EDS 349 or the Education Studies Departments approval; intention to pursue teacher certification at Berea; Admission to Major; AND permission of instructor
Offered: Typically every summer

In consultation with the instructor, students will design and carry out an experience that places them in settings and with people of cultural and/or ethnic backgrounds different from their own, and who are marginalized by merit of political, social, cultural, economic, physical, or other aspects of their situations. Students are encouraged strongly to undertake experiences in settings that will challenge them sufficiently to see life through the eyes of those with whom they will work. At the conclusion of the course, students will provide evidence of the impact of this experience, and will articulate its value in relation to their commitments, values, beliefs, and understandings about themselves as aspiring teachers. Active Learning Experience.

1 Course Credit

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

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

Offered: Typically alternate Fall Terms (next offered Fall 2010)

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: CFSIEDS 210 and 360; OR permission of instructor

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

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 130 and CFSIEDS 210; OR permission of instructor

Offered: Typically as student interest and faculty availability allow

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

EDS 435 Integrated Curriculum II: Arts, Humanities, and Science

Prerequisite: Admission to the Teacher Education Program

Offered: Typically every Spring Term

This course is designed to engage students in constructing age-appropriate curricula integrating the arts, humanities, and the natural sciences, and in the design and execution of assessment tools and teaching strategies appropriate to integrated learning. Students will plan and teach science in ways that account for wondering at the world, for seeking and honoring questions, and for the intensity of pursuing inquiry. They will plan and teach so their students will experience the arts and humanities as a host of languages that can be used and honed in the process of relating with the meaningful in their lives. Through these experiences, students will come to see the content of the arts, humanities, and sciences as perfect complements for making, finding, and sharing meaning, as well as narrative inquiry as a tool for making meaning in any content. Students will draw from the body of works and resources collected during EDS 335 as they engage children in group and individual inquiries. Experiences in this course are designed to help students further articulate the value of integrated learning for vitalizing Kentucky's Core Content for Assessment and Learning Goals, and to refine the alignment between their vision and their work. Taken concurrently with EDS 440, with a shared daily 4-hour practicum in the schools. 2 Course Credits

EDS 440 Integrated Curriculum III: Social Studies and Content Literacy

Prerequisite: Admission to the Teacher Education Program

Offered: Typically every Spring Term

In this course, students will explore the structure of the elementary social studies and investigate ways to integrate rich social-studies content with developmentally appropriate content-area literacy instruction. Through teacher modeling, direct instruction, and cooperative and individual learning activities, students will explore strategies to help P-5 children meaningfully engage key social-studies concepts and ideas while developing competence in reading expository materials. 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, draw inferences, synthesize understandings from multiple sources, and share their findings with others. In the daily practicum, students will integrate their developing knowledge with their own vision for the children they teach and with constructivist principles of human development as they design, teach, and assess a variety of integrated learning experiences, including Webquests and interdisciplinary units. Taken concurrently with EDS 435, with a shared daily 4-hour practicum in the schools. 2 Course Credits

EDS 471 Integrated Methods and Materials for Teaching in Middle Schools

Offered: Typically every Fall Term (next offered Fall 2010)

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 Year. They will be required to submit a satisfactory exit portfolio addressing the New Teacher Standards established by the Kentucky Education Professional Standards Board. Taken concurrently with EDS 472.

3 Course Credits

EDS 472 Teaching Practicum in Middle Schools

Offered: Typically every Fall Term (next offered Fall 2010)

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 Department. 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. 1 Course Credit

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 Department. 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 in Secondary Classrooms

Prerequisite: Admission to the Teacher Education Program

Offered: Typically every Spring Term

This course introduces students to applications of important learning and assessment theory in shaping pedagogical practice. Particular attention will be given to Howard Gardner's theory of multiple intelligences and to the sociocultural theory of Lev Vygotsky. Students will explore the theoretical underpinnings of behaviorist and constructivist traditions in designing instruction; targeting objectives to appropriate levels of a taxonomy of instructional objectives; designing and managing classroom environments conducive to student learning; developing appropriate strategies for implementing instruction; and exploring evaluation theory and applications of both formal and informal assessments. Special attention is directed to preparing performance evidence of addressing *New Teacher Standards*. This course is taken as part of the pre professional block in the Teacher Education Program, which includes a partial-day field assignment in local schools.

1 Course Credit

EDS 480 Students with Special Needs-Secondary

Prerequisite: 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 Secondary Student Teaching Seminar

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 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 Year. They

will be required to submit a satisfactory exit portfolio addressing the *New Teacher Standards* established by the Kentucky Education Professional Standards Board. Taken concurrently with EDS 482. 1 Course Credit

EDS 482 Secondary Student Teaching (P-12, 5-12, and 8-12)

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 Department. 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 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

EDS 487 Elementary Student Teaching

Prerequisite: Admission to Student Teaching

Offered: Typically every Fall Term

The Elementary School Student Teaching practicum is a required component of the Professional Year 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 Department. 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 Year. They will be required to submit a satisfactory Eligibility (exit) Portfolio addressing the *New Teacher*

Standards established by the Kentucky Education Professional Standards Board. Taken concurrently with EDS 488.

3 Course Credits

EDS 488 Elementary Student Teaching Seminar

Prerequisite: Admission to Student Teaching

Offered: Typically every Fall Term

The elementary Student Teaching seminar is a required component of the Professional Year 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, teaching skills, and dispositions necessary to meet Berea's program goals and Kentucky's *New Teacher Standards*. A special emphasis of the seminar will be to support student teachers' development of the required Eligibility (exit) Portfolio. The seminar will meet three hours each week. Taken concurrently with EDS 487.

1 Course Credit

EDS 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

EDS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

1 to 3 Course Credits

EDS 397/497A 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

EDS 398/498 Directed Study

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

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

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

1 Course Credit

English, Theatre, and Communication

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/WST)

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

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

ENG 140 Appalachian Literature (APS)

Offered: Typically annually (next offered Fall 2010)

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 2010)

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 2010)

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 2 J 0 or permission of instructor

Offered: Typically annually (next offered Fall 2010)

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 2011)

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 Fall 2010)

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/WST)

Prerequisite: GSTR 2J0

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

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 in 2011-2012)

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

1 Course Credit

ENG 223 Grammar for Teachers

*Prerequisite: Sophomore standing or above
OR permission of instructor*

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

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 2011-2012)

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 (WST)

Offered: Typically alternate years (next offered Spring 2011)

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 in 2011-2012)

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 of instructor

Offered: Typically alternate years (next offered Spring 2011)

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

1 Course Credit

ENG 282 Workshop in Creative Writing

Prerequisite: GSTR 210 or permission of instructor

Offered: Typically alternate years (next offered Fall 2010)

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

Prerequisite: GSTR 210 or permission of instructor

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

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

ENG 300 Seminar in Times

Prerequisite: ENG 110 or 124

Offered: Typically alternate years (next offered Fall 2010)

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 305 Seminar in Cultures

Prerequisite: ENG 110 or ENG 124

Offered: Typically as student interest and faculty availability allow (first offered term yet to be determined)

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

1 Course Credit

ENG 310 Seminar in Authors

Prerequisite: ENG 110 or 124

Offered: Typically alternate years (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 312 The Teaching of English

Prerequisite: Sophomore standing or above AND ENG 110 or another literature course; OR permission of instructor

Offered: Typically alternate years (next offered Fall 2010)

A study of secondary-school English teaching methods and theory. Critical examination of the agenda, scope, and history of the secondary English curriculum, with an emphasis on its nature, purpose, and complexity in a democratic society. Planning and implementing instruction, including use of medical technology, evaluation techniques, and individual and team teaching in local schools.

1 Course Credit

ENG 320 Seminar in Film

Prerequisite: ENG 110 or ENG 124

Offered: Typically alternate years (first offered Spring 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 2011)

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 110 and 210

Offered: Typically alternate years (first offered Spring 2011)

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 2011-2012)

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 2010 and ENG 382P in Spring 2011; 2011-2012 offerings uncertain)

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 (O). 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 O) 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 2011-2012)

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 by students who completed ENG 287.

1 Course Credit

ENG 485 Seminar in English

Prerequisites: Senior standing only & permission of Department Chairperson

Offered: Typically annually (next offered Fall 2010)

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 & Student Handbook 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 & Student Handbook 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 & Student Handbook 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 & Student Handbook for general description. 1 Course Credit

ENG 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor
Offered: Typically on a limited basis as student interest and faculty availability allow
See Academic Programs and Courses in this Catalog & 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 alternate years (next offered Fall 2010)
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, current, 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; alternations 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 (offered Fall 2010 and Spring 2011, as an exception)
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 (IUI offered Fall 2010)
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 Productions

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 10/0)

Study of the first theatres and extant play scripts of selected human cultures. included in this study will be representative cultures location 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 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 2011)

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 offered 2011-2012)

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. Exercise in using voice projection and optional diction exercises for auditioning. Extensive drill-practice in the study 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 Spring 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 2010)

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 or instruction

Offered: Typically annually (next offered Fall 2010)

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 THIR 115

Offered: Typically alternate years (next offered Spring 2011)

An advanced acting class geared toward students who are pursuing graduate study or a career in the performing arts, with an emphasis on acting. The seminar will alternate between a focus on Contemporary Acting Styles, emphasizing 20th and 21st century acting methods, and Period Acting Styles, emphasizing historical acting styles required of pre-modern drama. May be repeated one time for credit, provided the student takes both Contemporary and Period styles. NOTE: Noncredit for those who completed THR 325.

1 Course Credit

THR 481 Senior Theatre Project

Prerequisite: Senior standing only

Offered: Typically annually (next offered Fall 2010)

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 theater curriculum. To be taken during the first term of the senior year.

1 Course Credit

THR 186/286/386/486 Special Topics

Prerequisite: 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

THR 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

THR 395/495 Internship

Prerequisite: Sophomore, junior; or senior standing

Offered: Typically every term

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

1 to 3 Course Credits

THR 397/497A or B Team Initiated Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

THR 398/498 Directed Study

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

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

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

1 Course Credit

Communication

COM 100 Introduction to Communication

Offered: Typically Fall and Spring terms

A skill approach to the study of communication.

Students will deliver speeches and participate in interpersonal communication

exercises and activities to increase competence in assertiveness, expressiveness, and skills that enhance communication. Students will learn effective listening.

1 Course Credit

COM 103A Competitive Speech and Interpretation Practicum

Prerequisite: Permission of instructor

Offered: Typically Fall and Spring terms

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

1/4 Course Credit

COM 103B Competitive Debate Practicum

Prerequisite: Permission of instructor

Offered: Typically 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 2011-2012)

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 2011)

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 2011-2012)

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 2011)

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: COM 100

Offered: Typically annually (next offered Spring 2010)

Survey of theories of communication. Students investigate communication models and theories pertaining to interpersonal, intercultural, nonverbal, group, organizational, and mass communication. Social Science Perspective. NOTE: Noncredit for students who completed COM 300.

1 Course Credit

COM 284 Workshop in Composition/Rhetoric (ENG)

Prerequisite: GSTR 210 or permission of instructor

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

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 2010)

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 210 or permission of instructor

Offered: Typically alternate years (first offered Spring 2011)

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 (WST)

Prerequisite: GSTR 210 or permission of instructor

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

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/WST 386: Communication and Gender* in Spring 2008 or *COM/WST 486: Gender Communication* in Spring 2006.

1 Course Credit

COM 312 Mass Communication

Offered: Typically annually (next offered Fall 2010)

The study of the relationship between mass communication and mass culture. Students examine the dynamic nature of print and electronic media, with specific attention on how television affects cultural norms and choices.

NOTE: Noncredit for students who completed COM 202. 1 Course Credit

COM 315 Public Relations

Prerequisite: GSTR 210 or permission of instructor

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

Emphasizes both the theory and practice of public relations by exploring the evolution of the field, the range of roles and responsibilities public relations practitioners assume in a variety of settings, the significant issues and trends that have shaped the practice of PR, and by providing an opportunity to create from scratch a PR campaign for a local community partner.

Addresses the ethics of public relations practice and how values shape an organization's ability to build successful relationships with its publics.

NOTE: Noncredit for students who completed COM 386P: *Public Relations* in Fall 2009.

1 Course Credit

COM 410 Senior Seminar in Communication

Prerequisite: COM 220 (formerly 300) and senior standing

Offered: Typically every Fall Term

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

1 Course Credit

COM 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2 or 1 Course Credit

COM 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

COM 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

COM 397/497A 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

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

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 2011 and Fall 2011, 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 (next offered Spring 2011)

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

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 1 03 or permission of instructor
Offered: Typically as student interest and faculty availability allow

Selected orations, letters, and essays.

1 Course Credit

LAT 324 Classical Poetry

Prerequisite: LAT 103 or permission of instructor
Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

LAT 325 Medieval Latin

Prerequisite: LAT 103 or permission of instructor
Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

LAT 186/286/386/486 Special Topics

Prerequisites: Determined by instructor
Offered: Typically as student interest and faculty availability allow

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

1/2 or 1 Course

Credit

LAT 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

1

Course Credit

LAT 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

1 to 3 Course

Credits

LAT 397/497A or B Team Initiated Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

LAT 398/498 Directed Study.

Prerequisites: Will vary, but 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 for general description.

1 Course Credit

Greek

GRK 201 Introduction to Greek I

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

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

1 Course Credit

GRK 202 Introduction to Greek II

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

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

Advanced study in the fundamentals with selected readings.

1 Course Credit

GRK 203 Greek Literature

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

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

Selections from classical literature and from the New Testament.

1 Course Credit

GRK 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this

Catalog & Student Handbook for general description. 1/2 or 1 Course Credit

GRK 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

GRK 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

GRK 397/497A or B Team Initiated Study

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

Offered: Typically as student interest and faculty availability allow

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

GRK 398/498 Directed Study

Prerequisites: Will vary but always 'Will include permission of instructor

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

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

Classical Hebrew

HEB 101 Introduction to Classical Hebrew

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

HEB 102 Intermediate Classical Hebrew

Prerequisite: HEB 101

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

HEB 103 Readings in Biblia Hebraica

Prerequisite: HEB 102

Offered: Typically as student interest and faculty availability allow (next offered Fall 2010)

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 30 I.

1 Course Credit

Chinese

CHI 101 Introduction to Chinese I

Offered: Typically as student interest and faculty availability allow (next offered Fall 2010)

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 (next offered Spring 2011)

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 (next offered Fall 2010)

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 (next offered Spring 2011)

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 (AST)

Prerequisite: JPN/AST 101 with a grade of C or higher or permission of instructor

Offered: Typically every Spring Term

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

1 Course Credit

JPN 103 Introduction to Japanese III (AST)

Prerequisite: 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

French

FRN 101 Intro to French Language and Culture I

Offered: Typically every Fall Term

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

FRN 102 Intro to French Language and Culture II

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

Offered: Typically every Spring Term

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

FRN 103 Intermediate French III

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

Offered: Typically every Fall Term

Continued development of French language skills fully integrated with culture.

1 Course Credit

FRN 140 French Civilization Past and Present

Offered: Typically alternate years, usually in the Fall (next offered Spring 2012)

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 2013)

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 (next offered Spring 2012)

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 (next offered Fall 2012)

A survey of French literature from the middle ages to 1715. Arts Perspective. 1 Course Credit

FRN 321 Panorama of French Literature II

Prerequisite: FRN 320 with a grade of C or higher, or permission of instructor

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

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 (next expected to be offered Fall 2014)

Classicism; selected works including those of Corneille, Racine, and Moliere. Arts Perspective.

1 Course Credit

FRN 330 Nineteenth-Century French Literature

Prerequisite: FRN 321 with a grade of C or higher, or permission of instructor

Offered: Typically as student interest and faculty availability allow

Selected prose and poetry. Arts Perspective.

1 Course Credit

FRN 340 Twentieth-Century French Literature

Prerequisite: FRN 321 with a grade of C or higher, or permission of instructor

Offered: Typically as student interest and faculty availability allow

(next expected to be offered Fall 2013)

Selected prose and poetry. Arts Perspective.

1 Course Credit

FRN 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2 or 1 Course

Credit

FRN 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook 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 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

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 for general description.

1

Course Credit

German

GER 101 Introduction to German I

Offered: Typically every Fall Term

Introduction to spoken German; fundamentals of grammar and pronunciation; and basic vocabulary building. Includes a self-paced language laboratory. 1 Course Credit

GER 102 Introduction to German II

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

Offered: Typically every Spring Term

Continued emphasis on spoken German, fundamentals of grammar, pronunciation, and vocabulary building. Readings in light German prose. Includes a self-paced language laboratory. 1 Course Credit

GER 103 Intermediate German III

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

Offered: Typically every Fall Term

Extensive practice in diction, simple composition, and vocabulary building. Readings in German prose. Includes a self-paced language laboratory. 1 Course Credit

GER 140 German Civilization

Offered: Typically as student interest and faculty availability allow (next offered Spring 2010)

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 2010)

A general survey of German drama from its beginnings to the present. Readings of selected plays. 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 study of the origin and development of the German novel. Selected readings. 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 186/28613861486 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 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

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 for general description. 1 Course Credit

Spanish

SPN 101 Introduction to Spanish I

Prerequisite: Permission of Department
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 2010)
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 2010)
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
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

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 2011, 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 2010, 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 Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2 or 1 Course Credit

SPN 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

SPN 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

See Academic Programs and Courses in this Catalog 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

General Studies Required

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

Offered: Typically Fall and Spring terms

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

1 Course Credit

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

Prerequisite: GSTR 110 (or waiver)

Offered: Typically Fall and Spring Terms

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

1 Course Credit

GSTR 310 Understandings of Christianity

Prerequisites: GSTR 210 and sophomore standing

Offered: Typically Fall and Spring terms

This course invites students to imagine and consider Christianity from stances both inside and outside the faith, from the vantage of various disciplines, as an instance of the general phenomenon of religion, and as a way of understanding life's purpose and meaning

that remains important for many around the world. 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 Senior Seminar in Contemporary Global Issues

*Prerequisites: GSTR 310, GSTR 332, and senior standing**

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 faculty working closely with students' independent research leading to presentation of a project to others in the course.

1 Course Credit

*NOTE: Students in the Applied Science and Mathematics major's 3-2 Engineering Program should take this course before transferring to engineering school.

General Studies

GST 101 Strategies for Academic Success

Offered: Typically Fall and Spring terms

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

1/4 Course Credit

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

1 Course Credit

GST 235 Introduction to Behavioral Sciences

Prerequisite: GSTR /10 (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 CPR).

1 Course Credit

GST 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2 or 1 Course Credit

GST 390/490A or B Independent Study

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

Offered: Typically as student understand faculty availability allow

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

1 Course Credit

GST 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

1 to 3 Course Credits

GST 397/497A 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

GST 398/498 Directed Study

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

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

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

1 Course Credit

History

HIS 101 Western Civilization I

Offered: Typically every Fall Term (offered Fall and Spring terms in 20/0-2011, as an exception)

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 HI S
226. 1 Course Credit

HIS 102 Western Civilization II

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

A survey of major cultural, scientific, and
technological developments from the 15th century
to 1945, and their interaction with social, political,
and organizational structures. Western History
Perspective. OTES: Strongly recommended for the
first or sophomore year. Noncredit for students
who have completed HIS 227.

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 140 History of Spain (SPN)

*Offered: Typically as student interest and faculty
availability allow (next offered Fall 2010)*

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 (offered Fall
and Spring terms in 2010-2011, as an exception)*

A survey of American history from its beginnings
through the Civil War, 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 Civil War,
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 (offered
Spring 2011 only in 2010-2011, as an exception)*

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 200 Introduction to Historical Study

*Offered: Typically every Fall Term (offered Fall
and Spring terms in 2010-2011, as an exception)*

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 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 (LAT)

Prerequisite: GSTR 110 (or waiver)

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

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 219 History of the British Isles

Offered: Typically every Spring Term

A general survey of the political, social, economic, and cultural history of the British Isles from

ancient times to the present. Emphasis will be put on the interaction and diversity of the four regions (England, Scotland, Wales, and Ireland) and their relations with other regions. Western History Perspective. 1 Course Credit

HIS 224 20th-Century World History

Prerequisite: GSTR 110 (or waiver)

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

This course is an examination of major world developments from 1900 to 2000. Topics include colonialism; the two World Wars; political experimentation in the interwar years; the Cold War; the demise of political imperialism; nation-building in Africa, Asia, and South America; globalization; the fall of Soviet-based communism; and challenges to nationalism and the nation-state, including the rise of political regionalism, environmental sustainability, human rights, and terrorism. World Culture (Western) component of the International Perspective. 1 Course Credit

HIS 228 Gender in the Modern West, 1750-Present (WST)

Prerequisite: HIS 101,102, OR GSTR 210

Offered: Typically alternate years (next offered Fall 2010)

This course compares the experiences of women and men to determine how gender roles have contributed to and been shaped by the political and social history of Europe and the United States. The class is arranged topically and chronologically from the Enlightenment through the success of the parity movement in France at the beginning of the 21st century. Topics to be considered include: national revolutions, industrialization and the sexual division of labor, widening political opportunities, socialism, feminism, racism, and warfare. African Americans', Appalachians', and Women's Perspective and Western History Perspective.

1 Course Credit

HIS 229 Modern Imperialism (AST)

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

Offered: Typically alternate years (next offered 2011-20 12)

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

1 Course Credit

HIS 240 Islam (REL)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2011)

An examination of the doctrine, ritual, jurisprudence, and historical vision of Islam with an emphasis on historical and contemporary expressions of Islam. Special attention will be given to the historical origins of religious traditions which still are alive today, namely Sunni, Shi'ite, and Sufi Islam, as well as the central features of Islamic theology and practice, including the Qur'an, the Hadith (the Traditions), legal reasoning, and Tafsir (Qur'an interpretation). Students study modern political and social expressions of Islam, including the political Islamic movements, popular piety, and women in Muslim society. The interrelations of Islamic traditions with Christian and Jewish traditions also will be studied. Religion Perspective and a World Culture (Non-Western) component of the International Perspective.

1 Course Credit

HIS 253 Appalachian America (APS)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Fall 2010)

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 (next offered Fall 2010)

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

1 Course Credit

HIS 270 The Recent History of the Middle East

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2011)

A survey of the recent history of the Middle East including political, economic, and religious factors important to the region. World Culture (Non-Western) Component of the International Perspective.

1 Course Credit

HIS 310 Seminar in United States History

Prerequisites: HIS 161, HIS 162, 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 may be repeated for credit, provided the topic differs from previous offerings. Western History Perspective. NOTE: Also see *Schedule of Classes* for specific term offerings to see if the course has been approved to meet additional General Education requirements.

1 Course Credit

HIS 311 Seminar in Medieval European Civilization

Prerequisite: HIS 101 or junior standing

Offered: Typically alternate years (next offered Fall 2010)

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 2011)

An examination of the European experience from the late 14th to the late 16th century, including the Renaissance in Italy and trans-alpine Europe, the Religious Reformation of the 16th century, and the resultant diversification of Western Christianity, and the impact of European contact and interaction with the Non-Western world. If taken in or after Fall Term 2010, meets Religion Perspective and Western History Perspective. 1 Course Credit

HIS 315 19th-Century Europe: Revolutions and Industrializing Nations

Prerequisite: HIS 102 or junior standing
Offered: Typically alternate years (next offered term yet to be determined)

This course examines the history of Europe from the French Revolution, which signaled the end of the Old Order, to the outbreak of World War I, which led to the end of European primacy in the world. Major themes for the years 1789 through 1848 include the first and second industrial revolutions, the decline of aristocratic hegemony, the emergence of new ideologies (especially nationalism, liberalism, and socialism), and the rise of the bourgeoisie. After 1870, principal themes include domestic politics, culture in Europe's golden age, and increasing national rivalry and competition.

1 Course Credit

HIS 316 20th-Century Europe: Division and Reconciliation

Prerequisite: HIS 102 or junior standing
Offered: Typically alternate years (next offered Fall 2009)

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: HISIAST 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 that previously studied. World Culture (on-Western) component of the International Perspective.

1 Course Credit

HIS 323 Seminar in Japanese History (AST)

Prerequisite: HISIAST 122 or 123; OR junior standing
Offered: Typically alt. Spring Terms (next offered Spring 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 term yet to be determined)

This course examines a specific topic in the history of Modern Europe in an effort to develop both a deeper appreciation for the complexity of the past and an understanding for the various methodologies that historians employ. By reading primary documents and secondary materials, students will develop an understanding of the way social, economic, political, and cultural issues interact and shape a period. May be repeated for credit, provided the topic differs from those previously studied. NOTE: Certain sections of this course also will supplement the Women's Studies and Asian Studies programs, as well as being suited to General Education's African Americans', Appalachians', and Women's Perspective, International Perspective, and Western History Perspective, depending upon each section's focus. Refer to the *Schedule of Classes* to see which specific sections meet these perspectives.

1

Course Credit

HIS 356 Seminar in African-American History (AFR)

Prerequisite: HIS 161 and 162; or HISIAFR 165

Offered: Typically annually (next offered term 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 Advanced Topics In-History

Prerequisite: HIS 200 and senior standing, or junior standing with permission of instructor

Offered: Typically annually (next offered Fall 2010)

The capstone course for the History major. A study of problems, conflicting interpretations involving specific periods, major writings, or classical writings of history. May be repeated for credit, provided the topic differs from that previously studied. 1 Course Credit

HIS 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2 or 1 Course Credit

HIS 390/490 A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

HIS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

1 to 3 Course Credits

HIS 397/497A or B Team Initiated Study

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

Offered: Typically as student interest and faculty availability allow

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 for general description.

1 Course Credit

Library Sciences

LSC 390/490 A 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

LCS 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

Mathematics

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; ratio, proportion, and percent; and geometry. NOTE: This full-term

course will provide students with one (I) load credit. Noncredit Course

MAT 011 Elementary Algebra I

Prerequisite: Completion or waiver of MAT 010

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, including a review of the MAT 010 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 (I) load credit.

Noncredit Course

MAT 101 Mathematical Modeling Using the Computer

Prerequisite: Completion or waiver of MAT 012

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

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. 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 for 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 0 12
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. 11

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 20 I. 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 Middles Grades and Elementary Teachers

Prerequisite: MAT 201

Offered: Typically as student interest and faculty availability allow

This course is designed to help prepare middle and elementary school teachers to teach geometry. Students will explore, develop, and prove geometric concepts through the use of manipulatives and the Geometer's Sketchpad software. This course blends together content, teaching pedagogy, and in-service experience.

1 Course Credit

MAT 214 Linear Algebra

Prerequisite: MAT 135 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 11

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 2010-2011)

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 2010)

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 Spring 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

Prerequisites: Senior standing and permission of instructor

Offered: Typically annually (next offered Fall 2010)

The main goal of this course is to introduce students to research and communication in mathematics. Teams of students will work together reading and discussing selected articles from selected mathematical journals, writing team papers, and giving team presentations on the material read. The emphasis will be placed on developing reading comprehension of mathematics above the textbook level and on developing effective methods for communicating this information. The course will culminate in the completion of individual student projects, with

students selecting their own article or topic to research, and presenting the material both in a formal research paper and in an oral presentation. The satisfactory completion of this individual project will satisfy the senior seminar requirement for the Mathematics Major.

1 Course Credit

MAT 432 Abstract Algebra

Prerequisite: MAT 315 and 330 or permission of instructor

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

A course designed to introduce students to the methods and topics essential to the study of algebraic structure and its implications. An introduction to group theory will serve to launch an investigation of more highly structured algebras such as rings, integral domains, and fields.

1 Course Credit

MAT 433 Numerical Analysis (CSC)

Prerequisites: MAT 225; one course chosen from CSC 125,126, or 226; AND one course chosen from MAT 214,315, or 330

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

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

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 20 II)

A continuation of MAT 311. The student should gain an appreciation of the nature, scope, and theoretical basis of methods of statistical inference. Topics will include estimation, hypotheses testing, and linear regression. Applications will be discussed. 1 Course Credit

MAT 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2 or 1 Course Credit

MAT 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

MAT 492 Senior Mathematics Seminar

Prerequisite: Permission of instructor and senior standing

Offered: Typically annually (next offered Spring 2011)

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 397/497A 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

MAT 398/498 Directed Study

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

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

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

Computer Science

CSC 111 Storytelling Through Computer Animation

Prerequisite: Completion or waiver of MAT 012

Offered: Typically alt. Spring Terms (next offered 2011 -2012)

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). NOTE: Noncredit for students who completed CSC III in Short Term 2007. 1 Course Credit

CSC 125 Introduction to Internet Programming

Prerequisite: Completion or waiver of MAT012

Offered: Typically alternate years (next offered Fall 2010)

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 CSC 205.

1 Course Credit

CSC 126 Introduction to Robotics

Prerequisite: Completion or waiver of MAT012

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 CSC 206.

1 Course Credit

CSC 226 Introduction to Programming with C++

Prerequisite: CSC 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 226 with a grade of C or higher

Offered: Typically every Fall Term

This course continues the introduction to the methodology of programming from an object-oriented perspective with an emphasis on algorithms, data structures, and software engineering. **NOTE:** Noncredit for students who completed 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 2010)

An introduction to the fundamental ideas and the basic paradigms of computer science, the very foundation on which to base one's thinking about computers now and in the future. This course will address some of the following topics in the theory of computation-the theory of automata and formal languages, computability by a Turing machine, and computational complexity. Computational tasks that cannot be solved on any computer or tasks

where there is no practical, reasonably fast algorithm to solve them will be considered. The perspective here is from that of computing, but the treatment is mathematical in nature.

1 Course Credit

CSC 325 Operating Systems with an Emphasis on Unix

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

OR permission of instructor

Offered: Typically alternate Spring Terms (next offered Spring 2011)

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

1 Course Credit

CSC 330 Database Systems

Prerequisite: CSC 226 with a grade of C or higher

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

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 433 Numerical Analysis (MAT)

Prerequisite: MAT 225; one course chosen from CSC 125, 126, 226; AND one course chosen from MAT 214,315, 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: CSC 236 and TEC 265

Offered: Typically alternate Spring Terms (next offered Spring 2011)

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

1 Course Credit

CSC 440 Design and Analysis of Algorithms

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

Offered: Typically alternate Spring Terms (next offered Spring 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 for general description.

1/2

or 1 Course Credit

CSC 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390;

senior standing for 490

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

CSC 493 Senior Projects

Prerequisite: Senior standing

Offered: Typically every Fall Term

Students apply modern software engineering approaches to the development of an original, well-documented, industry-strength software product. The product deliverables will include a product proposal, a specifications and requirements document, an architecture and design document, a test plan document, project status reports, and the code base implementation with quality documentation. Students will demonstrate their understanding by presenting and demonstrating the structure and applied elements of their project. Students will need to apply technical, organizational, and communication skills to this project. Successful completion of this course will meet Berea's Computer and Information Science Major capstone requirement.

1/2 Course Credit

CSC 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

1 to 3 Course Credits

CSC 397/497A 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

CSC 398/498 Directed Study

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

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

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

1 Course Credit

Music

MUS 106 World Music

Offered: Typically annually (next offered Fall 2009)

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 term yet to be determined)

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 art 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 118 Fundamentals of Music

Offered: Typically every Spring 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. This course also is open to the general College student who wishes to develop fundamental knowledge and skills in music.

1 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).

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 (next offered Fall 2010)

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 III

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 faculty availability allow
(offered Spring only in 2010-2011)*

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 (formerly 313) or
permission of instructor*

*Offered: Typically alternate Fall terms (next
offered Fall 2010)*

A course in the fundamentals of singing and how these fundamentals may be used in effective instruction of students in a school's music program. A study of the vocal mechanism with special attention given to the physical and psychological aspects of vocal pedagogy. A study of methods appropriate to choral rehearsal. A survey of choral music history and of choral literature 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 2011)*

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 2010)*

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 2010 and MUS 331 next offered
Spring 2011)*

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 of Elementary Music

*Prerequisite: Admission to Music or Music
Education major; OR permission of instructor*

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

An introduction to philosophies, methodologies, and pedagogical foundations of teaching music in elementary schools, including those of Kodaly, Orff, Dalcroze, and Gordon. Course activities would include review of materials, assigned readings, research, class discussions, practical teaching laboratory sessions, and practicum

experiences. 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 instructor; EDS 150 (formerly 250); and MUS 223 (formerly 313)

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

A course that provides an overview of the instrumental music- education profession, including the philosophy, methodology, and pedagogical foundations that are essential for successful teaching. The course is intended to assist the prospective instrumental music educator in the development of necessary musical, teaching, administrative, and personal skills. 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 221 P (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 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 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 art song literature; and sacred vocal literature. There will be comprehensive weekly listening and reading assignments and some singing. Four periods per week; one day will be a laboratory experience.

1 Course Credit

MUS 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 for general 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 general 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 general description.

1 to 3 Course Credits

MUS 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 this Catalog & Student Handbook for general

description.

1 Course Credit

MUS 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 for general 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 Department'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 General Music majors, and part of an optional course sequence for Music Education majors. Students in General 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 General 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 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 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 (next offered Fall 2010)

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 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

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

(end of Chamber Music Ensemble sections)

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

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. Students also will explore community health concepts with emphasis on the family, health promotion, and concepts of epidemiology. This course includes three hours of theory/classroom experience and three hours of clinical each week. Appropriate standardized exam(s) may be required. Active Learning Experience. NOTE: Taken Fall Term of sophomore year. Course Fee: \$417.

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 as a foundation for nursing care of common healthcare concerns of children and 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. Active Learning Experience. NOTE: Taken Spring Term of sophomore year. Course Fee: \$60. 1-1/2 Course Credits

NUR 350 Nursing of Children and Adults I

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 children and adults experiencing alterations in health. 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 84 hours of clinical experience per term. Appropriate standardized exam(s) may be required. NOTES: Taken Fall Term of junior year. Noncredit for students who completed this course as NUR 346. Course Fee: \$60. 1-1/2 Course Credits

NUR 351 Nursing of Children and Adults With

Psychiatric/Mental Health Needs

Prerequisites: NUR 342; BIO 207 (or concurrent enrollment);

BIO 222 (formerly 322); CFS 221; CHM 113; and PSY 100

Offered: Typically every Fall Term

The focus of this course is on nursing care of children and adults with psychiatric/mental-health needs. Caring is the paradigm for this course and expands the concepts of critical thinking, nursing, person, environment, and health. Clinical experiences provide the student with opportunities to care for clients in congruence with the American Association of Colleges of Nursing's (AACN's) Essentials of Baccalaureate Education for Professional Nursing Practice. This course includes 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 junior year. Noncredit for students who completed this course as NUR 344.

1 Course Credit

NUR 352 Research in Nursing

Prerequisite: NUR 342, CFS 221, BIO 222 (formerly 322), CHM 113, and PSY 100
Offered: Typically every Spring Term

The focus of this course is the role of research in nursing practice. Students will explore sources of knowledge appropriate to the discipline of nursing. Students will focus on the use of research-based knowledge from nursing and the sciences as the basis for practice, as described in the American Association of Colleges of Nursing's (AACN's) Essentials of Baccalaureate Education for Professional Nursing Practice. The evolution of knowledge and research practices in nursing will be examined. Critical appraisal and use of nursing research studies will be a major emphasis of the course. A group presentation of a research critique, which focuses on the usefulness of the study to the discipline, is a major requirement of the course. Two hours in class each week. Appropriate standardized exam(s) may be required. NOTE: Taken Spring Term of junior year. Noncredit for students who completed this course as NUR 345.

1/2 Course Credit

NUR 353 Nursing of Children and Adults II

Prerequisites: NUR 350
Offered: Typically every Spring Term

This course is the second of a two-course sequence that focuses on the care of children and adults experiencing alterations in health. 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. Five hours of class each week and 120 hours of clinical per term. Appropriate standardized exam(s) may be required. NOTES: Taken Spring Term of junior year. Noncredit for students who completed this course as NUR 347. Course Fee: \$60.

2 Course Credits

NUR 354 Pharmacology

Prerequisite: CHM 113
Offered: Typically every Spring Term

The focus of this course is the role of pharmacology in nursing practice. The emphasis is on the general principles of drug action that form the basis for understanding the actions of specific drugs. 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 junior year.

1 Course Credit

NUR 358 Child Health and Assessment (CFS)

Prerequisite: Permission of instructor
Offered: Typically alternate Fall Terms (next offered Fall 2010)

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

1 Course Credit

NUR 447 Nursing of Women and the Childbearing Family

Prerequisites: NUR 342; BIO 207 (or concurrent enrollment); 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 for Professional Nursing Practice. This course includes four hours of theory/classroom experience each week and 84 hours of clinical experience per term. Appropriate standardized exam(s) may be required. NOTES: Taken Fall Term of senior year. Noncredit for students who completed this course as NUR 347. Course Fee: \$60. 1 to 1/2 Course Credit

NUR 448 Community Health Nursing and Leadership I

Prerequisites: NUR 353 (formerly NUR 346)

Offered: Typically every Fall Term

This course is the first of a two-course sequence that focuses on integration and application of public-health and leadership theory 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 for Professional Nursing Practice and the Standards of Community Health Nursing Practice. Community-based clinical/practicum settings include a variety of health and social agencies in nearby Appalachian counties, 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. Noncredit for students who completed this course as NUR 348.

1 Course Credit

NUR 449 Community Health Nursing and Leadership II

Prerequisite: NUR 448 (formerly NUR 348)

Offered: Typically every Spring Term

This course is the second of a two-course sequence that focuses on integration and application of public health and leadership theory within the caring model. Social, cultural, economic, and political influences on families, communities, and the healthcare system will be explored. Emphasis is on implementation and evaluation of health care services to families, groups, and communities. Caring is the paradigm for this course and expands the concepts of critical thinking, nursing, person, environment, and health. Clinical experiences provide students with opportunities to care for clients in congruence with the American Association of Colleges of Nursing's (AACN's) Essentials of Baccalaureate Education for Professional Nursing Practice and Standards of Community Health Nursing Practice. Community-based clinical/practicum settings include a variety of health and community agencies, including schools, health departments, hospitals, and neighborhoods. 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 Spring Term of senior year. Noncredit for students who completed this course as NUR 346.

1 Course Credit

NUR 450 Synthesis in Nursing Practice

Prerequisites: NUR 350 and 448 (formerly NUR 347 and 348)

Offered: Typically every Spring Term

This capstone course focuses on the delivery of nursing care to 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, and d) develop skills needed to design, implement, and evaluate therapeutic nursing interventions. Test-taking skills and relaxation techniques also will be addressed. A clinical component will provide opportunity for the student to master areas

of recognized need. Four hours of class each week and 160 hours of clinical per term will be included. Appropriate standardized exam(s) may be required. NOTE: Taken Spring Term of senior year. Course Fee: \$60. 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 for 390; senior standing for 490
Offered: Typically as student interest and faculty availability allow
See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

NUR 395/495 Internship

Prerequisite: 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

NUR 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397; senior standing for 497
Offered: Typically as student interest and faculty availability allow
See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

NUR 398/498 Directed Study

Prerequisites: Will vary, but always will include permission of instructor
Offered: Typically on a limited basis as student interest and faculty availability allow

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

1 Course Credit

Peace and Social Justice Studies

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 110 Conflict Transformation

Offered: Typically a/female years (next offered Fall 2010)
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 examine critically 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.

1 Course Credit

PSJ 205 Peace and Social Justice: Theories and Practice

Prerequisites: GSTR 210

Offered: Typically every Spring Term

A consideration of social justice and peace from both secular and religious points of view. The course considers leading theories about the nature and implementation of social justice, and the role that religions (especially Christianity, Hinduism, Islam, and Judaism) play in wars and conflicts, as well as in peace and justice movements. The teachings and practices of Mahatma Gandhi and Martin Luther King Jr. are considered as ways of opening up a broad and cross-cultural study of alternatives to violence, in particular through understandings of peacemaking as spiritual practice. The course also examines Gandhi's and King's critics. Student projects focus on current issues, in particular on violence and peace-making in the contemporary world. Religion Perspective.

1 Course Credit

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

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Spring 2011)

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

PSJ 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2 or 1 Course Credit

PSJ 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390;

senior standing for 490

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

PSJ 395/495 Internship

Prerequisite: Sophomore, junior; or senior standing

Offered: Typically every term

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

1 to 3 Course Credits

PSJ 397/497A or B Team Initiated Study

Prerequisite: Sophomore or junior standing for 397;

senior standing for 497

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

PSJ 398/498 Directed Study

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

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

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

1 Course Credit

Philosophy

PHI 100 Introduction to Philosophy

Offered: Typically annually (next offered Spring 2011)

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 2010)

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 2011)

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 2011)

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 2100.1' sophomore standing

Offered: Typically alternate years (next offered Fall 2010)

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 2010)

An exploration of various topics in the philosophy of science. Possible topics include the nature of science and the scientific method, the implications of the results of contemporary natural sciences for humanity's place in the universe, and ethical questions that arise out of the scientific method and its results.

1

Course Credit

PHI 214 Approaches to Ethics

Prerequisite: GSTR 2JO or sophomore standing

Offered: Typically annually (next offered Fall 2010)

An examination of distinctive religious and philosophic ways of thinking about good, duty, virtue, and the nature of ethics. Attention to selected works of Thomas Aquinas, Aristotle, Kant, John Stuart Mill, and others. Practical Reasoning (PR).

1 Course Credit

PHI 215 Thinking About God

Prerequisite: GSTR 2JO

Offered: Typically alternate years (next offered 2011 -20 1 2)

An exploration of topics in the philosophy of religion. Possible topics include arguments for and against the existence of God, the nature and attributes of a divine being, and the nature of faith and religious experience. 1
Course Credit

PHI 218 Symbolic Logic

Prerequisite: Completion or waiver of MAT 012
Offered: Typically alternate years (next offered 2011 -20 1 2)

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 2011-2012)

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 2011)

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 2010)

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 2010)

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

PHI310 Philosophy from Descartes to Kant

Prerequisite: One PHI course
Offered: Typically alternate years (next offered Spring 2011)

An examination of European philosophy in the 17th and 18th centuries. Emphasis on the epistemological and metaphysical views of Descartes, Hume, Kant, and Locke. 1
Course Credit

PHI 315 Kant and his Philosophical Legacies

Prerequisite: One PHI course
Offered: Typically alternate years (next offered 2011 -201 2)

An examination of selected philosophic topics, themes, or movements in 19th- and 20th-century European and American philosophy, such as German idealism, American pragmatism, philosophy as analysis, phenomenology and existentialism, and post-modernism. May be

repeated for credit, provided topics differ.
1 Course Credit

PHI 380 Philosophy Seminar I

Prerequisite: One 300-level PHJ course or permission of instructor

Offered: Typically every Spring Term

Advanced study in a philosophic area, with an emphasis on careful reading of primary texts. Specific topic and prerequisites announced in the *Schedule of Classes* prior to registration.

1 Course Credit

PHI 480 Philosophy Seminar II

Prerequisite: PHI 380

Offered: Typically every Spring Term

Advanced study in a philosophic area, with an emphasis on careful reading of primary texts. Specific topic and prerequisites announced in the *Schedule of Classes* prior to registration.

1 Course Credit

PHI 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2

to 1 Course Credit

PHI 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390,-

senior standing for 490

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

PHI 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

1

to 3 Course Credits

PHI 397/497A 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

Religion

REL 101 Wrestling with God: An Introduction to the Scriptures

Offered: Typically annually (next offered Fall 2010)

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 2011-2012)

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 2011)

An examination of various religions with respect to selected themes, such as apocalypticism, sacred space, rites and worship, sacred texts and literature, culture and codes for living, and understandings of the divine. Religion Perspective and World Culture (Non-Western) component of the International Perspective.

1 Course Credit

REL 126 Poverty and Justice

Offered: Typically alternate years (next offered 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 200 Myth, Symbol, and Ritual

Prerequisite: GSTR 110 (or waiver) or permission of instructor

Offered: Typically annually (next offered Fall 2010)

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 205 Introduction to the Old Testament

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Fall 2010)

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 alternate years (next offered Spring 2011)

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 Spring 2011)

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 (WST)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2011)

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 2011-2012)

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 2011-2012)

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 (WST)

Prerequisite: GSTR 110 (or waiver)
Offered: Typically alternate years (next offered 2011-2012)

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

REL 225 Images of Jesus

Prerequisite: GSTR IJO (or waiver)
Offered: Typically as student interest and faculty availability allow (next offered Spring 2011)

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 2011-2012)

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 231 Religions of India and Tibet (AST)

Prerequisite: GSTR 110 (or waiver)
Offered: Typically alternate years (next offered 2011-2012)

A study of the principal religious traditions of South Asia: Buddhism, Hinduism, Islam, Jainism, and Sikhism. 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 232 Religions of China and Japan (AST)

Prerequisite: GSTR 110 (or waiver)
Offered: Typically alternate years (next offered Fall 2010)

A study of the principal religious traditions of East Asia: Buddhism, Confucianism, Shinto, and Taoism. 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 235 Christian Social Ethics

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

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 Spring 20 II)

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 still 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 2011-2012)

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 2011-2012)

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

REL 308 Themes in Asian Traditions (AST)

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 topic varies from that studied previously.

1 Course Credit

REL 309 Themes in Abrahamic Traditions

Prerequisite: One 200-level REI course

Offered: Typically alternate years (next offered 2011 -20 12)

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: REL 205 or REL 207

Offered: Typically alternate years (next offered Spring 2011)

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: REI 205 or REI 207

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

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 200-level REI course OR permission of instructor

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

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 Fall 2010)

This seminar will enable Religion majors to reflect on and integrate their studies within the department 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 186/2861386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2

to 1 Course Credit

REL 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390;

senior standing for 490

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

REL 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

1 to 3 Course Credits

REL 397/497A 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

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

Physical Education and Health

PEH 100 Introduction to Lifetime Wellness

Offered-Typically Fall and Spring terms

Knowledge and physical activities to improve and maintain wellness in College and after. The course brings together several major components: assessment of physical fitness. swimming abilities for survival, study of current information about wellness, and physical activities. Meets three hours each week. Strongly

recommended to be taken in the first year.

1/2 Course Credit

PEH 221 Health and Movement for the Young Child

Prerequisite: PEH 100

Offered: Frequency yet to be determined (next offered Spring 2011)

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 2011)

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 10 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 One 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 and written assessments; 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 244 Physical Education Activities for the Elementary Child

Offered: Typically alternate Fall Terms (first offered Fall 2010)

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 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 Department Chairperson and College Health Service

Offered: Typically annually (next offered Spring 2011)

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 Department. 1/4 Course Credit

PED 204: Yoga (AST)

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate years (first offered Spring 2011)

A study of the asanas (poses) included in the practice of Hath a 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 (first offered Fall 2010)

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 designed scientifically 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 be registered for PED 206G or 206H during both terms to receive the 1/4 credit. Students must register by specific section as follows:

- 206 A. Soccer - Men
- 206 B. Soccer' - Women
- 206 C. Tennis - Women
- 206 D. Cross Country - Men and Women
- 206 E. Swimming - Men and Women
- 206 F. Volleyball - Women
- 206 G. Basketball - Women (see above note)
- 206 H. Basketball - Men (see above note)
- 206 I. Track and Field - Men
- 206 J. Track and Field - Women
- 206 K. Tennis - Men
- 206 L. Baseball
- 206 M. Golf
- 206 N. Softball - Women

1/4 Course Credit Each

PED 206Y Modern Dance Troupe

Prerequisites: One full year of membership in the Modern Dance Troupe AND permission of instructor

Offered: Typically Fall and Spring terms

To receive credit, students must participate for one regular term, perform in the Modern Dance Concert, and participate in organizing and carrying it out. Limit of one regular-term PED 206Y for each student toward meeting the requirement for two 1/4-credit PED activity courses.

1/4 Course Credit

PED 206Z Country Dancers

Prerequisites: One full year of previous membership in

Country Dancers AND permission of instructor

Offered: Typically Fall and Spring terms

Participation is required for one regular term to receive credit. Membership selected by tryouts. Limit of one regular term PED 206Z for each student toward meeting the requirement for two 1/4-credit PED-activity courses.

1/4 Course Credit

PED 208: Aikido (AST)

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alternate years (first offered Spring 2011)

Aikido is a Japanese martial art emphasizing harmonious resolution to conflict. It is classified as a "soft" martial art, with the goal being personal transformation rather than harm to the opponent. Aikido movements are circular, fluid, and often dancelike. Students in this course will learn the philosophy of the art, as well as basic techniques of attacking, falling, and responding to attacks. 1/4 Course Credit

1/4 Course
Credit

PED 209 Intermediate Swimming and Water Games

Prerequisite: PEH 100 or permission of instructor
Offered: Typically alternate years (next offered 201/-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 education. 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 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 students 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.

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: P EH 100 or permission of instructor

Offered: Typically annually (next offered Fall 2010)

Body Recall is an intergenerational and educational exercise experience. It is a program that is developed specifically 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: P EH 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 alternate years (next offered 2011-2012)*

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 (former 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 (offered Fall 2010 and Spring 2011, as an exception)*

Introduction to weight management with an emphasis on the importance of physical activity and healthful nutritional habits throughout one's lifetime. Topics will include the following: obesity, low body weight, eating disorders, physiology of weight gain/loss, exercise as the key to weight management, healthy weight gain, weight-loss myths/quackery, influence of the

media on body image, losing/gaining weight in a healthy or sensible way, and nutritional aspects of weight management.
1/4 Course Credit

PED 222 Water Fitness

*Prerequisite: PEH 100 or equivalent; or permission of instructor
Offered: Typically Fall and Spring terms*

Students will explore varied water activities/exercises and then choose the ones desirable for them that can lead to the intrinsic improvement of fitness components and promote the extrinsic benefits of water exercise. The exercises generally are done in a vertical position and always with the face and head out of the water in shallow water and/or with flotation in deep water. There will be information on fitness swimming, but students do not have to be able to swim to take the class.

1/4 Course Credit

PED 223 Outdoor Adventure Activities

*Prerequisite: PEH 100 or equivalent; or permission of instructor
Offered: Typically every Spring Term*

Introductory course designed to expose students to a variety of lifetime activities very different from traditional activities. Basic skills; equipment needs and selection; safety and etiquette; maintenance and repairs; and environmental awareness and minimal impact concerns will be presented. The types of activities offered will vary. 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 2011)*

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 yet to be determined)

Studies and exercises to aid the acting student or vocal performer in understanding the physical aspects of character: physical and emotional energy flow, body placement, use of space, and relationship with other performers.

1/4 Course Credit

PED 228 Social and Folk Dance

Prerequisite: PEH 100 or permission of instructor
Offered: Typically annually (next offered Spring 2011)

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 alt. 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 alt. 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 211 or equivalent; or permission of instructor

Offered: Typically as student interest and faculty availability allow

This course offers intermediate-level instruction in traditional Kung-Fu forms consisting of offensive and defensive maneuvers in a series of block, kicks, strikes, and formal stances. The forms have practical self-defense applications, and will enhance mental and physical focus, balance, cardiovascular health, strength, agility, and coordination. Instruction also includes hand-to-hand defense techniques, ground defense, and information on concentration, relaxation, and assault prevention. 1/4 Course Credit

PED 233 Dance in Healing and Therapy

Prerequisite: GSTR 110 (or waiver) AND one entry-level course in

ONE of the following: PSJ; 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 the: 1) ways dance and movement can lead to understanding of oneself and of others as thinking, feeling, and sensing beings, and 2) ways dance and movement can be used for personal development for people of varying psychological or emotional abilities. The course is grounded in Laban Movement Analysis, a system widely used in dance and movement as healing and therapy. Meets PED 1/4-credit Activity requirement.

1 Course Credit

PED 234 Gymnastics

Prerequisite: PEH 100 or permission of instructor
Offered: Typically annually (next offered Spring 2011)

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 236 Volleyball and Recreation Games

Prerequisite: PEH 100 or permission of instructor

Offered: Typically annually (next offered Fall 2010)

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 2010)

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 Spring 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 245 Dance

Prerequisite: PEH 100 or permission of instructor

Offered: Typically alt. 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 focused directly on dance for children, especially creative dance and

elementary 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 folk and square dance. Arts Perspective. NOTE: May be 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 2010)

Explores tactics, skills, teaching, and coaching methods for badminton, basketball, bowling, soccer, tennis, and track and field, as well as teaching 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, as well as teaching 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 20 11)

Explores dance of African and Asian nations in cultural context and in the context of dance of other countries. The goal of the class is to increase understanding and appreciation of the diversity of ways in which individuals, communities, and groups define themselves in movement, and to develop awareness of dance as a form of cultural expression. At the conclusion of the course, students will examine ways in which African and Asian dance styles have influenced American dance and culture. The class will include dancing, video viewing, interviews with international students, reading, and writing of research and analysis papers. Arts Perspective and World

Culture (Non-Western) component of the International Perspective. 1 Course Credit

PED 249 Dancing Through Space and Time

Prerequisite: GSTR 110 (or waiver)

Offered: Typically annually (next offered Fall 2010)

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 aft. Spring Terms (next offered Spring 2011)

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 alt. 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 2868 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 2011)

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 alt. 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 expected to be offered in 2011-2012)

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 310 Advanced Swimming-Lifeguard Training

Prerequisites: 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 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 through observations and assessment of motor behavior and motor development from learning to performance (acquisition of skill), throughout the life span, from infancy to older adulthood.

1 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 2010)

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

PED 335 Integrated Biomechanics and Exercise Physiology I

Prerequisite: Completion or waiver of MAT 012; and BIO 101

Offered: Typically alternate Fall Terms (next offered Fall 2010)

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 PED 340. 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

Prerequisites: PED 335 and its prerequisites
Offered: Typically alt. Spring Terms (next offered Spring 2011)

This course is a continuation of PED 335. The goal of the course is more advanced applications of the principles and concepts learned in the previous course. Emphasis will be placed on the clinical aspects of the sub-disciplines including the areas of cardiac, pulmonary, metabolic, orthopedic and other prominent disease conditions, and appropriate activity interventions. Throughout this course, students will gain experience in using the HU-M-AN movement analysis and Dartfish software programs, and in creating and presenting in-depth material to external audiences (campus-wide, community, naive audiences). This course is required for Physical Education majors. Students who are interested in working in medical rehabilitation settings are encouraged to take this course.

1 Course Credit

PED 355 Leadership and Program Development

Prerequisites: Junior standing and successful completion of three PED major courses
Offered: No plans to offer this course again in future

An introduction to principles and techniques of leadership and management in wellness, recreational, and physical-education settings. Students will learn fundamental concepts for program planning, development, implementation, and assessment; board development; community relations, program marketing, and development of a participant base; fiscal management; facilities; equipment; and resource planning, acquisition, and evaluation. The class takes a practical, hands-on approach. 1/2 Course Credit

PED 360 Advanced Athletic Training

Prerequisites: BIO 101 and PED 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 MAT 012; completion of two PED major courses
Offered: Typically alt. Spring Terms (next offered Spring 2011)

Curriculum design and theory and application of various teaching strategies and methods for Physical Education required for P-12 Certification majors. Introduction to basic statistical procedures. A review of evaluative techniques for individual and program accomplishments. 1 Course Credit

PED 186/286/386/486 Special Topics

Prerequisites: Determined by instructor
Offered: Typically as student interest and faculty availability allow
See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1/2 or 1 Course Credit

PED 390/490A or B Independent Study

Prerequisite: Sophomore or junior standing for 390;

senior standing for 490

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

PED 492 Physical Education Seminar

Prerequisites: BIO 101; either PED 335 OR 340 (or PED 343,353, or 364, no longer offered at Berea); and one additional PED major course; junior or senior standing (junior preferred)

Offered: Typically every Fall Term

Emphasizes exploration of professional opportunities and scientific investigation in the field of physical education. Students explore areas of personal career interest, prepare a review of recent literature or a paper based on their primary research, and make a formal oral presentation. Discussion and evaluation of oral reports and presentations by resource persons are included. Required of all Physical Education majors. 1 Course Credit

1 Course Credit

PED 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

1 to 3 Course 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 for general description.

1 Course Credit

PED 398/498 Directed Study

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

Offered: Typically on a limited basis as student interest and faculty availability allow
See Academic Programs and Courses in this Catalog & Student Handbook for general description.

1 Course Credit

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 Healths in Appalachia (APS)

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

Offered: Typically annually (next offered Fall 2010)

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 PEH 100 OR permission of instructor

Offered: Typically every Spring Term

An introduction to the field of Health Studies and to possible careers in health. Students will study several significant problems in public health and begin to develop the knowledge and skills to understand and solve these problems, including a basic introduction

to use of approaches, such as health education, health promotion, and primary prevention. 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 GSTR //0 (or waiver)

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

This course explores family dynamics from a family systems perspective and examines how those dynamics are affected by addiction and violence. Topics covered include: the development of family theories; the structure of a family system; the impact on children and their future relationships; the interplay between substance abuse and the family system; domestic violence; and trauma healing. Prevention, intervention, and treatment options for addictions will be emphasized.

1 Course Credit

HLT 236 Women and Health (WST)

Prerequisite: HLT 215 OR a college course in Women s Studies OR permission of instructor

Offered: Typically alternate years (first offered Fall 2010)

This course will help students understand women's health from a personal perspective and then connect that understanding to the health of women in other parts of the world. Emphasis will be on reproductive health, including pregnancy; birth, and breastfeeding, but we will also study issues such as environmental health, violence against women, and AIDS as a global health problem.

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 2010)

This course will help students develop knowledge and skills toward becoming effective health educators for both adults and children in settings of P-12 schools, public health, community health, medical offices, and work sites. Emphasis will be on theories of health

education leading to creative and effective teaching with a goal of healthy behavioral change. The course also will explore health promotion at a larger public health level.

1 Course Credit

HLT 186/286/386/486 Special Topics

Prerequisites: Determined by instructor

Offered: Typically as student interest and faculty availability allow

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

1/2 or 1 Course Credit

HLT 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

HLT 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically every term

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

1 to 3 Course Credits

HLT 397/497A 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

HLT 398/498 Directed Study

Prerequisites: Will vary, but always will include 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

Physics

PHY 111 Introduction to Astronomy

Prerequisite: Completion or waiver of MAT 012

Offered: Typically every Fall Term (a/so offered Spring 2011, as an exception)

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 2/7; 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 3/5 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 3 /6 and MAT 135 (or waiver); OR permission of instructor

Offered: Typically annually (next offered Spring 2011)

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 every Spring Term (next offered term yet to be determined)

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 2010)

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 (next offered Spring 2011)

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 225; OR permission of instructor

Offered: Typically as student interest and faculty availability allow (next offered Fall 2010)

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 alt. Spring Terms (next offered Spring 2011)

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 2011 -2012)

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 alt. Spring Terms (next offered Spring 2012)

An intermediate course in quantum mechanics, with applications. Topics include Schrodinger's equation, particle in a box, the harmonic oscillator, the hydrogen atom, perturbation theory, and the WKB approximation. Four one-hour lectures each week. 1 Course Credit

PHY 485 Introduction to Solid-State Physics

Prerequisites: PHY 315,316, and 320; OR permission of instructor

Offered: Typically as student interest and faculty availability allow

This course provides an introduction to the area of solid-state physics. Topics to be covered include crystal structure; diffraction of waves by crystals; thermal properties of solids; dielectric properties of solids; free electron model of metals; band theory; magnetism and magnetic resonance; and superconductivity. Four one-hour lectures each week.

1 Course Credit

PHY 186/286/386/486 Special Topics

Prerequisites: Determined by course instructor

Offered: Typically as student interest and faculty availability allow

See Academic Programs and Courses in this Catalog & Student Handbook for general description. NOTE: Studies in a specialized area of instructor's and student's interest, such as solid-state physics, thermodynamics, quantum mechanics, optics, radiation physics, etc. Laboratory and discussion sessions will be stressed, with students largely responsible for the progress of the course. 1/2 or 1 Course Credit

PHY 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

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 2010)

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 (next offered Spring 2011)

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 Spring 2011)

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 2010)

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 alt. 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 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 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

PSC 355 Foreign Policy Analysis

Prerequisite: PSC 250 (formerly 350)

Offered: Typically alternate years (next offered Fall 2010)

An examination of forces, structures, and processes that affect foreign-policy formulation. Emphasis on U.S. foreign policy.

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.

Course Credit

1/2 or 1

Psychology

PSY 100 General Psychology

Prerequisite: Completion or waiver of MAT 012

Offered: Typically Fall and Spring terms

A systematic introduction to psychology as a science. Social Science Perspective. Also meets Practical Reasoning (PR), if taken in or after Fall Term 2010.

Course Credit

1

PSY 207 Principles of Learning with Laboratory

Prerequisite: PSY 100

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

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 (not offered 2011, as an exception)

Topics that will be considered are perception, memory, language, concept formation, problem solving, and creativity. The laboratory will involve examination and application of the principles learned in the course. NOTE: Noncredit for students who completed PSY 308.

1 Course Credit

PSY 209 Social Psychology

Prerequisite: PSY 100

Offered: Typically every Spring Term

Effect of social factors upon behavior, motives, attitudes, and personality; and psychological aspects of social groups and institutions. NOTE: Noncredit for students who completed PSY 309.

1 Course Credit

PSY 210 Industrial/Organizational Psychology

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

Offered: Typically annually (next offered Fall 2010)

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. NOTE: Noncredit for students who completed this course when offered as PSY 386.

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 term yet to be determined)

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. NOTE: Noncredit for students who completed PS Y 311.

1 Course Credit

PSY 212 Behavioral Neuroscience with Laboratory

Prerequisite: PSY 100 or permission of instructor

Offered: Typically alternate years (next offered Spring 2011)

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. NOTE: Noncredit for students who completed PSY 312.

1 Course Credit

PSY 213 Child Psychopathology

Prerequisite: PSY 100 or CFS 130; OR permission of instructor

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

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. NOTE: Noncredit for students who completed PSY 313.

1 Course Credit

PSY 214 Ethology with Laboratory

Prerequisite: PSY 100 or BIO 100 or 110

Offered: Typically 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. NOTE: Noncredit for students who completed PSY 314.

1 Course Credit

PSY 215 Health Psychology

Prerequisite: PSY 100

Offered: Typically alternate years (next offered Fall 2010)

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. NOTE: Noncredit for students who completed PSY 315.

1 Course Credit

PSY 217 Cross-Cultural Psychology

Prerequisite: PSY 100

Offered: Typically even-numbered Spring Terms (next offered Spring 2012)

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 (first offered Fall 2010)

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. NOTE: Noncredit for students who completed PSY 205.

1 Course Credit

PSY 231 Social Gerontology

Prerequisite: Completion of the Social Science Perspective

Offered: Typically alternate years (next offered Spring 2011)

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 (next offered Fall 2010 and Spring 2011, as an exception)

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 186/286/386/486 Special Topics

Prerequisites: Determined by instructor
Offered: Typically as student interest and faculty availability allow

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

1/2 to 1 Course Credit

PSY 390/490A or B Independent Study

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

Offered: Typically as student interest and faculty availability allow

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

1 Course Credit

PSY 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

Offered: Typically as student interest and faculty availability allow

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

1 to 3 Course Credits

PSY 397/497A 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

PSY 398/498 Directed Study

Prerequisites: Will vary, but always will include permission

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

PSY 325 Statistics and Research Methods for the Behavioral Sciences II

Prerequisite: PSY 225

Offered: Typically every Spring Term (first offered Spring 2011)

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. NOTE: Noncredit for students who completed PSY 306.

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. NOTE: Noncredit for students who completed PSY 320. Western History Perspective.

1 Course Credit

PSY 424 Senior Research

Prerequisite: PSY 325 (or PSY 306, which last will be offered in Fall 2010)

Offered: Typically Fall and Spring terms

Each student will design, conduct, and present a psychological experiment as a senior thesis.

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 (offered Fall 2010 and Spring 2011, as an exception)

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 01 0

Offered: Typically annually (next offered Fall 2010)

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 2010)

An examination of the role that culture plays in shaping the way human beings live in different societies. Emphasis on the variety of cultural knowledge that people use to give meaning to life, to understand one another, and to organize their behavior. Social Science Perspective.

1 Course Credit

SOC 223 Social Stratification and Inequity

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Fall 2010)

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 (WST)

Prerequisite: SOC 1000r PSY 100 or CFS 130 AND GSTR 210

Offered: Typically alternate years (next offered Fall 2010)

An examination of the behaviors and expectations of being male and female and the resulting relationships among men and women across the life cycle. Attention is given to current issues of gender roles and socialization, the family, education, employment, social class, and dynamics of social change.

1 Course Credit

SOC 327 Crime and Deviance

Prerequisites: SOC 100 and GSTR 210

Offered: Typically as student interest and faculty availability allow

An examination of the conditions under which deviance is defined and changes over time; how people come to define some persons as different, dangerous and/or immoral; how persons respond to being so defined; and the role of social control agents in the definition of deviance and the treatment of the deviant.

1 Course Credit

SOC 330 Community Analysis: The Appalachian Case (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 of MAT 012; and SOC 100; or permission of instructor

Offered: Typically every Fall Term

In this course, the way to convert ideas from other Sociology courses into testable hypotheses will be studied. It includes examining various types of research, research design, and methods of collecting data. The student will find and

evaluate sociological materials, use descriptive statistics and computers as tools in organizing information, and write a research proposal. Practical Reasoning (PR). 1 Course Credit

SOC 340 Social Statistics for a Diverse Society

Prerequisites: Successful completion of both Practical Reasoning with Quantitative Emphasis (PRQ) and the Social Science Perspective

Offered: Typically as student interest and faculty availability allow (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 to 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 2 1 0

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 Department of Sociology, 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

Sustainability and Environmental Studies'

SENS 100 Introduction to Sustainability and Environmental Studies

Prerequisite: Completion or waiver of MAT OJ 2

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 sustainability of a community or society. Local ecosystems will be used as a context for learning. Three 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 Fa/2010)

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

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

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Spring 2011)

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 2010)

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 a laboratory-science course

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, ceo-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), 150 hours in an approved labor position, or a student-faculty undergraduate research project may satisfy this requirement.
Noncredit Course

SENS 395/495 Internship

Prerequisite: Sophomore, junior, or senior standing

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

1 to 3 Course Credits

SENS 397/497A 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

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

Industrial Technology Management

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 (not offered in 2010, as an exception)

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; offered Fall only in 20/0-2011)

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 J 10 (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 (next offered Fall 2010 and Spring 2011, as an exception)

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

TEC 218 Methods of Teaching Technology Education

Prerequisite: GSTR 110 (or waiver) OR permission of instructor

Offered: Typically alternate Spring Terms (next offered Spring 20 II)

A study designed to examine the varied methods of presentation, lab management, demonstration, and course planning for teaching technology in grades 5-12. 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 TEC 460 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 MATOI2: or permission of instructor

Offered: Typically Fall and Spring Terms (except when TEC 470 is offered)

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: \$10.

1 Course Credit

TEC 330 Computer Aided Drafting and Design

Prerequisite: TEC 130 or permission of instructor

Offered: Typically alternate years (next offered Spring 2011)

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 2011)

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 2010)

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 /0 be

offered 2011-2012)

An in-depth study in various methods of using computers to generate, manipulate, and present graphic images. Topics may include: graphic design, digital photography, digital illustration, desktop publishing, Web-page design, and multi-media production. Course Fee: \$10.

1 Course Credit

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 105 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 265 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 for 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 397/497A 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

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

Women's Studies

WST 124 Introduction to Women's Studies

Offered: Typically Fall and Spring terms
What is Women's 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 women's 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 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 Studies will engage students in a deeply personal and academic journey that involves classroom discussion of individuals' perceptions and critiques, journal responses to both discussion and reading, and a media project analyzing cultural images of women. African Americans', Appalachians', and Women's Perspective.

1 Course Credit

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

Offered: Typically alternate years (next expected to be offered 2011-20/2)

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

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

Prerequisite: GSTR 210

Offered: Typically alternate Fall Terms (next offered Fall 2010)

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

WST 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

WST 211 Women in Religion (REL)

Prerequisite: GSTR 110 (or waiver)

Offered: Typically alternate years (next offered Spring 2011)

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

WST 212 Literature of Caribbean Women (AFR/ENG)

Prerequisite: GSTR 210

Offered: Typically alternate years (next expected to be 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, 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

WST 220 Gender in Appalachia (APS)

Offered: Typically as student interest and faculty availability allow

An interdisciplinary exploration of gender and its impact on the Appalachian region. Proceeding from the assumption that cultural constructions of sex, sexuality, and gender are basic to our understandings of the world, we will investigate such topics as family and community; intimacy, violence, and power; health and reproduction; home and work; religion and spirituality;

masculinity and femininity; activism and resistance in Appalachia. The diversity of Appalachian experiences will be explored through fiction and non-fiction readings, films, and discussion. African Americans', Appalachians', and Women's Perspective. 1 Course Credit

WST 223 Theologies of Liberation (REL)

Prerequisite: GSTR 11 0 (or waiver)

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

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

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

Prerequisite: GSTR 210

Offered: Typically alternate years (next offered Spring 2011)

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 completed SENS 460 in Fall 2005 or Fall 2006. 1 Course Credit

WST 228 Gender in the Modern West, 1750-Present (HIS)

Prerequisite: HIS 101,102, OR GSTR 210

Offered: Typically alternate years (next offered Fall 2010)

This course compares the experiences of women and men to determine how gender roles have contributed to and been shaped by the political and social history of Europe and the United States. The class is arranged topically and chronologically from the Enlightenment through the success of the parity movement in France at the beginning of the 21st century. Topics to be considered include: national revolutions, industrialization and the sexual division of labor, widening political opportunities, socialism, feminism, racism, and warfare. African Americans', Appalachians', and Women's Perspective and Western History Perspective. 1 Course Credit

WST 236 Women and Health (HLT)

Prerequisite: HLT 2/5 OR a college course in Women s Studies OR permission of instructor

Offered: Typically alternate years (first offered Fall 2010)

This course will help students understand women's health from a personal perspective and then connect that understanding to the health of women in other parts of the world. Emphasis will be on reproductive health, including pregnancy, birth, and breastfeeding, but we will also study issues such as environmental health, violence against women, and AIDS as a global health problem. 1 Course Credit

WST 237 Women and Literature (ENG)

Prerequisite: Sophomore standing or above

Offered: Typically alternate years (next offered Spring 2011, as an exception)

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

WST 310 Communication and Gender (COM)

Prerequisite: GSTR 210 or permission of instructor

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

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/WST 386: Communication and Gender in Spring 2008 or COM/WST 486: Gender Communication in Spring 2006. 1 Course Credit

WST 315 Classic Texts in Women's Studies

Prerequisite: WST 124 or permission of instructor
Offered: Typically annually (next offered Spring 2011)

A study of the Western version of the Women's 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

WST 325 Gender and Sex Roles (SOC)

Prerequisite: SOC 10001' PSY 10001' CFS 130 AND GSTR 210

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

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

WST 350 Women's Studies Seminar I

Prerequisite: WST 124 and junior standing
Offered: Typically annually (first offered Fall 2010)

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 WST 358.

1 Course Credit

WST 366 Cross-Cultural Perspectives on Family (CFS)

Prerequisite: SOC 100 or permission of instructor
Offered: Typically every Fall Term (next offered term

yet to be determined)

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

WST 450 Women's Studies Seminar II

Prerequisite: WST 124 and senior standing
Offered: Typically annually (first offered Fall 2010)

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. NOTE: Noncredit for students who completed WST 401. 1 Course Credit

WST 186/286/386/486 Special Topics

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

WST 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

WST 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*

WST 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*

WST 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*

