AFAS 101    INTRODUCTION TO AFRICAN AND AFRICAN AMERICAN STUDIES    3 Semester Hours
This course focuses on the experiences of Africans and African Americans and the significance of race from an interdisciplinary and multicultural perspective. It explores the extent to which race, as well as other social characteristics such as gender, class, and sexual orientation, affect access to opportunity, power, and resources.  **No Prerequisite**

AH 101    ART HISTORY I    3 Semester Hours
A survey of the major visual arts—architecture, painting, sculpture—from prehistoric times through the Middle Ages. Given fall semester every year.

ANTH 105    CULTURAL ANTHROPOLOGY    3 Semester Hours
This course acquaints students with how anthropologists use a cross-cultural approach to understand human behavior. Differences among the world’s cultures are examined in terms of technological levels, social organization, and ideology. Topics include symbolism, language, sex roles, economics systems, kinship, political systems, religion, magic, warfare, and cultural change. The course concludes by exploring how an anthropological perspective provides insight into contemporary ecological, social and human survival issues.

ARTS 101    INTRODUCTION TO FINE ARTS    3 Semester Hours
This course examines the interdisciplinary nature of the arts and incorporates materials from disciplines within the fine arts—dance, music, theater, and visual arts

AS 121    PAINTING I    3 Semester Hours
An introduction to painting and the concepts of color and light. Students develop a visual vocabulary, an appreciation of diverse painting styles, and the ability to assess works in a critical manner.

BCH 101    BIOCHEMISTRY SEMINAR I    1 Semester Hours
In this first seminar course in a two-semester sequence, students are introduced to the essence of biochemistry. The course involves active learning strategies, student presentations, guest lectures or external seminars, and other activities designed to acquaint students with and promote understanding of the discipline. It may not be used to satisfy the science general education requirement. Prerequisite: Biochemistry major or permission of the instructor. 2 hours lecture.

BIOL 101    PRINCIPLES OF BIOLOGICAL SYSTEMS    4 Semester Hours
Introductory course designed to emphasize the established fundamental principles common to all known forms of life. Topics for discussion include the origin of life forms (abiogenesis) on this planet and the evolution and operation (metabolism and self-perpetualization) of such forms of life at various levels of biological organization. Comprehension of the principles including “complementarity between structure and function” is emphasized throughout. Three hours lecture, three hours lab. Designed as a science elective for business, humanities and social science students.

BIOL 107    BIOLOGY AND SOCIETY: BIOLOGY FOR AN ENGAGED CITIZENRY    4 Semester Hours
This writing-enriched course for non-science majors is designed to fulfill the lab science distribution requirement. The goals of the class are (1) to empower students (our future citizenry) to make informed decisions (2) by helping students to acquire the tools of gathering information (research), decision-making, and persuasion. The class is centered on four topics: evolution, environmental pollution, biotechnology, and human populations and reproductive health. We encourage students to become engaged in issues regarding all four topics by assigning “action papers.” These action papers are letters sent to people in profit and nonprofit organizations and government agencies, and to politicians and other individuals in positions to take action on any of these matters. The letters request information, prompt certain actions, or express an opinion regarding a specific policy based on sound understanding of the science involved. Small inquiry groups conduct web-based research on these topics and present their findings in oral presentations/discussions to the class community. Each inquiry group and individual student writes a paper on each of the four topics. Course assessment is based on these assignments. 6 hours of lecture and laboratory. 4 semester hours
This course is designed for non-science majors interested in understanding the theory of evolution. An understanding of evolution requires knowledge of the scientific process, how hypotheses are formulated, and the definition of scientific theory. These topics are covered at the beginning of the course. Other topics include a discussion of the origin of life on earth, biographical information about Charles Darwin and discussion of his books The Voyage of the Beagle and On the Origin of Species, the evidence supporting the theory of evolution, basic concepts in genetics, and a comparison between artificial and natural selection. The course concludes with a discussion of evolutionary developmental biology and human evolution. This course fulfills the science distribution requirement. Prerequisite: None. 3 hours lecture. 3 semester hours

This course is an introduction to the science of nutrition. Human nutrient requirements, nutrient absorption, malnutrition (overconsumption as well as underconsumption), recommended dietary guidelines, and topics of current interest are covered. Special attention is paid to helping students evaluate their own nutrition practices. Designed as a science elective for non-science majors. 3 hours lecture. 3 semester hours

This course is intended for biology majors and premedical students. The course, the first of the core curriculum, will center on evolution as the organizing principle of living systems which will form the framework for the problems and processes considered in courses II and III that follow. This course begins with unit (1) Elements of Living Organisms, which will explore the biological, physical and chemical principles that govern a living organism. The context in which these principles will be explored is the evolutionary origin of life on Earth. Unit (2) Biological Evolution will continue this evolutionary theme and will focus upon genetic mechanisms of inheritance and the resulting micro- and macro evolutionary processes. Unit (3) Ecological Systems of Life, will elucidate organizational principles by which groups of interacting individuals form populations, ecological communities, and ecosystems. Contextual themes for this unit include the ecological significance of biodiversity, conservation ecology, and the global ecosystem consequences of our 6+ billion human population. Three hours lecture, three hours laboratory, one hour discussion.

This course includes an examination of the contemporary legal and ethical environment as it relates to the formation and management of business and other organizations. A study of the major classifications of the law such as civil law, criminal law, constitutional law, and administrative law, as well as a review of our legal system, is therefore necessary. Emphasis is placed on recent legislation governing areas such as employment, consumer rights, and environmental issues, as well as the ethical dilemmas that are present in the modern business organization. This course is required of all majors in the School of Business Administration.

This course is designed for students with weak math and problem solving skills. It is intended to prepare students for CHEM 145. The development of problem-solving skills, and the introduction of basic chemical concepts is emphasized. Does not satisfy the general education or distribution requirement in science. 1.5 semester hours

This course introduces chemical concepts and how they impact human beings in their daily activities. The goals of the course are to develop an appreciation for the molecular world and the fundamental role it plays in daily life and to develop an understanding of the major scientific and technological issues affecting our society. The course discusses matter, atomic theory, bonding, molecular structure, acids and bases, states of matter, and organic chemistry. Other topics include the role that chemistry plays in energy production, especially from fossil fuels and alternative fuel sources, and in the structure and properties of polymers and plastics including recycling issues. Designed as a science elective for business, humanities, and social science majors. Students may not receive credit for both CHEM 100 and SCI 107. CHEM 111 is a laboratory course designed to accompany this course, but students are not required to take both the lecture and the laboratory course. Prerequisite: MATH 101 or at least Level 3 on the Mathematics Assessment.
CHEM 101 / 103  INTRO TO CHEM I / LAB  4 Semester Hours
This course is designed for students who are in a nonscience prephysical therapy major and students who do not intend to major in science or engineering. The various principles of chemical behavior are discussed and correlated with other sciences. Topics include bonding, structure, reactivity, stoichiometry, gas laws, solutions, solubility, equilibrium, energy relationships, periodic table, an introduction to organic chemistry, and hydrocarbons. The combination of both CHEM 101 and 102 is equivalent to CHEM 105. Prerequisite: High school chemistry or permission of the instructor and MATH 101 or at least Level 3 on the Mathematics Assessment. CHEM 101 must be taken concurrently with CHEM 103. 3 hours lecture. 1 hour recitation.

This laboratory course is closely coordinated with CHEM 101 and serves to illustrate the principles examined in that course. Qualitative and quantitative experiments involving primarily inorganic systems are carried out. The combination of both CHEM 103 and 104 is equivalent to CHEM 106. CHEM 101 must be taken concurrently with CHEM 103.

CHEM 105 / 106  GENERAL, ORGANIC, & BIOCHEMISTRY / LAB  4 Semester Hours
Designed for students who do not intend to major in science or engineering, this course presents principles of chemical constitution and their relation to chemical, physical behavior with particular emphasis on compounds of biological interest. Topics include atomic structure, chemical bonding, properties of gases and solutions, acid/base equilibria, organic functional groups and their reactions, and properties of biologically important molecules—proteins, carbohydrates, nucleic acids, and lipids. This course may not be substituted for CHEM 145 or 146 and does not satisfy the prerequisite for CHEM 255. Nursing majors are required to take CHEM 106 concurrently with CHEM 105. Students may not receive credit for both CHEM 105 and CHEM 100, CHEM 105 and CHEM 101, or CHEM 105 and CHEM 102. Prerequisite: High school chemistry.

A laboratory program closely coordinated with and designed to accompany CHEM 105. Experiments develop basic principles of laboratory technique. Qualitative and quantitative characterizations and syntheses of both inorganic and organic compounds are performed. This course may not be substituted for CHEM 147 and does not satisfy the prerequisite for CHEM 257 or 258. Three laboratory hours weekly. Nursing majors are required to take CHEM 105 concurrently with CHEM 105. Students may not receive credit for both CHEM 106 and CHEM 103 or CHEM 106 and CHEM 104. Prerequisite: High school chemistry and concurrent enrollment in CHEM 105 or permission of the instructor.

CHEM 145 / 147  GENERAL CHEMISTRY I / LAB  4 Semester Hour
This course is intended for students in a science or engineering major. This introduction to the fundamental concepts of chemistry stresses the quantitative aspect. Included are the following topics: atomic and molecular structure, bonding theories, states of matter, thermodynamics, chemical equilibria, kinetics, and the physical and chemical properties of selected elements and their compounds. Three class hours and an optional hour of recitation each semester. Prerequisites: high school chemistry or permission of the instructor. CHEM 147 should be taken concurrently with CHEM 145.

These courses provide the basic laboratory exercises in general chemistry correlated to the material in CHEM 145. Inorganic and organic syntheses are included and quantitative aspect are emphasized. Three lab hours each semester. Prerequisite: high school chemistry or permission of the instructor. CHEM 147 should be taken concurrently with CHEM 145.

CJ 105  INTRODUCTION TO CRIMINAL JUSTICE  3 Semester Hours
A general introduction to the study of the American system of criminal justice. The crime problem, the police, the judicial system, and correctional agencies will be examined. Special emphasis will be placed on depleting both the legal and behavioral realities of each stage of the criminal justice process.

COMS 130  MASS MEDIA & SOCIETY  3 Semester Hours
This course examines the effects of mass media on public attitudes. Forms, theories and functions of mass communication (print, film, and electronic) are studied. Topics include the role of media; government's advocate or adversary; the public's right to know and individual rights; sex, violence and censorship; persuasion and advertising.

COMS 180  PUBLIC SPEAKING & PRESENTATION  3 Semester Hours
The goal of this Communication Studies-based course is to provide students with the skills and confidence needed to deliver compelling speeches and presentations. Students will learn to communicate information powerfully in-person and on camera, for both small groups as well as large audiences. Topics will include: the knowledge of audience, nonverbal delivery skills, use of presentation aids (such as Powerpoint), persuasive vs. informative presentations, presentations in the workplace, and much more. Strongly encouraged for all Communication Studies majors, and open to all majors. No prerequisite.
COMS 213 VISUAL LITERACY 3 Semester Hours
This course examines the structure and effects of visual form and media (photography, film, television, digital and other kinds of images). It aims to develop students’ perceptual, cognitive and analytical skills of how meaning is created visually.

COMS 262 DIGITAL PHOTOGRAPHY 3 Semester Hours
This course introduces fundamental principles and creative techniques used in digital still photography. Students are introduced to basic optics, lenses, and still camera operations. Other topics include composition, design, creative lighting, and visual sensitivity. Students learn the basics of Photoshop and digital photography hardware/software. Additional lab fee required. This course does not satisfy the general social science requirement. No prerequisite. 3 semester hours

CRWR 151 THE WRITING LIFE 3 Semester Hours
This course will provide students with an introduction to the discipline of creative writing. Students will read several works by writers who reflect on their own processes and begin establishing for themselves—through such practices as daily journaling—a writing life of their own. A project investigating the writing process of an established author will be required.

CRWR 157 INTRODUCTION TO POETRY WRITING 3 Semester Hours
This course introduces the beginning poet both to the aesthetic and qualitative dimension of poetry writing and to the technical and quantitative considerations: meter, form, rhyme, image, simile, metaphor, and symbol. Not open to students who have completed ENGL 307 or CRWR 307. 3 semester hours

CSCI 101 INTRODUCTION TO PERSONAL COMPUTERS 3 Semester Hours
This course, for the student with no prior background in computing, introduces the personal computer and its use, with emphasis on popular software packages. The following topics are included: the basics of the disk operating system of the IBM personal computer, a popular word processor such as Microsoft Word, and a spreadsheet such as Lotus 1-2-3. Classroom instruction combines lecture, demonstration, and hands on computer experience.

CSCI 131 INTRODUCTION TO COMPUTER PROGRAMMING 3 Semester Hours
This introductory course is designed for the Arts and Science student with no previous computer experience. It will give the student a basic understanding of how general purpose computers are used, how they are organized and how they function. Programming topics and assignments using BASIC will be given throughout the course to reinforce the lecture material. There are no prerequisites, but the student should be proficient in algebra. This course is not open to Computer Science majors.

CSCI 151 INTRODUCTION TO COMPUTER SCIENCE I 4 Semester Hours
This is a comprehensive introduction to computer science with a laboratory. Included are theoretical topics such as an introduction to logical proof and program verification. Also included are physical aspects of computer science such as an introduction to logic circuit design, computer architecture and machine language. Other topics such as data structures and algorithms, translators, and artificial intelligence may be introduced. Programming exercises will be in C. No previous knowledge of C is required, although experience in some high level language would be beneficial.

DAN 101 MODERN DANCE I 1 Semester Hours
This course provides an introduction to the principles and practice of modern dance. Ongoing dance technique classes will incorporate aspects of modern and postmodern dance, dance improvisation, Bartenieff Fundamentals, Pilates mat work, and stretching and relaxation techniques. Through these movement experiences, students will develop their technical dance skills, learn basic concepts of dance design, and further their understanding and cultivation of the body as an instrument of expression. The course will provide a basis for understanding the aesthetic principles of modern dance through movement experiences, critical viewing and analysis of masterworks of modern dance choreography, and class discussions. The class will attend one or more live dance performances. Corequisite: DAN 101. Student may enroll in the course up to four times.

DAN 021 DANCE REPEROIRE I 0 Semester Hours
This course provides students with a structured rehearsal and performing experience. Students will learn one or more dances and perform for at least one public performance during the semester. Repertory will vary each semester. Corequisite: DAN 101. Student may enroll in the course up to three times.

ED 1101 FAMILY AND COMMUNITY RELATIONS 3 semester hours
This course focuses on how candidates use their understanding and knowledge about the complex characteristics of children’s families and communities to create and sustain respectful, reciprocal relationships that support and empower families, and to involve families in their children’s development and learning. (PA Department of Education Pre-K–4 Program Specific Guidelines, 2008).
ED 1102  EFFECTIVE INSTRUCTIONAL PRACTICES AND DELIVERY METHODS  3 semester hours
This course involves the foundations of special education. The purpose is four-fold, to (1) examine historical background information related to the field of special education (legislation and litigation); (2) review components necessary for effective collaboration and consultation with parents, school personnel, and other professionals; (3) examine the nature and characteristics of various disabilities; and (4) discuss services and programs to help meet the educational, social, and personal goals of students with disabilities. This is achieved via case studies, large and small group class discussions, chapter readings, class assessments, and related exercises.

ED 1121  INTRODUCTION TO TEACHING AND EDUCATIONAL TECHNOLOGY  3 Semester Hours
This is an introductory course, and learning experiences focus on the art and science of teaching and the practical applications and responsibilities of the teaching profession. Participants have the opportunity to explore the roles of teachers in various settings. The foundations, history, and philosophy of education are examined and current trends in education are presented. Through classroom discussions, technology experiences, interviews, and other activities, students assess themselves against the criteria for excellence in teaching. As adult learners who bring their own experiences to the classroom, it is expected that learners will challenge their own views of the structure, politics, and theories of teaching. Students learn the technical skills and theoretical knowledge necessary to use emerging technologies (computers, Internet, multimedia applications) in their coursework and when student teaching. This course complements and complies with the International Society for Technology in Education Foundation standards for teacher preparation programs and competencies as outlined by the Pennsylvania Department of Education.

ENGR 111  ENGINEERING TECHNIQUES  2 Semester Hours
An introduction to engineering techniques: experimentation, modeling computation, graphics, statistical techniques, and technical writing. Ethics and professionalism are also covered. Team projects are included. Lab exercises are drawn from the four major disciplines of engineering. This is a writing-enriched course. One lecture and one two-hour lab per week.

ENGL 100  FUNDAMENTALS OF ENGLISH  3 Semester Hours
This course reviews the fundamentals of English composition: parts of speech; punctuation and mechanics; spelling; diction; sentence structure; the paragraph; outlining; the theme. The course, designed to assist students in increasing their level of competency in written expression, provides intense drill in fundamentals and frequent short writing exercises. Some writing exercises are designed to teach the student the use of the dictionary and the use of the library. After successful completion of ENGL 100, students must enroll in ENGL 101. Not open to students who have received credit for ENGL 101. ENGL 100 may not be used as a humanities elective or to satisfy the humanities distribution requirement for Arts and Sciences students.

ENGL 101  COMPOSITION AND CRITICAL THOUGHT  3 Semester Hours
This intensive course in expository writing gives constant attention to grammatical and rhetorical principles. The student is made aware of such matters of diction as abstract and concrete words, connotation and denotation, and levels of usage. Grammar and syntax, from parts of speech through types of sentences, are included, as well as punctuation and mechanics. Emphasis is placed on the necessity for logical writing by explaining the process of induction and deduction. Logical expression is related to the development of an effective outline, stressing the principles of unity, coherence and emphasis. Assigned essays are read for the dual purpose of stimulating ideas for student expression and providing models of such major types of exposition as definition, analysis and argumentation. Some writing exercises are designed to teach the student the use of the dictionary and the use of the library. Techniques of research and modern documentation formats are examined. A short research paper incorporating all aspects of good expository writing is required. ENGL 101 may not be used as a humanities elective or to satisfy the humanities distribution requirement for Arts and Sciences students. Prerequisite: ENGL 100 or approval of the English faculty.

ENGL 111  ENGLISH AS A SECOND LANGUAGE  3 Semester Hours
This course is an intensive study of English grammar and pronunciation and includes systematic vocabulary building. Students work on an individual basis in the particular areas where their communication skills are weakest. Reading, writing, and oral skills correlate with other courses they are attending. After successful completion of ENGL 111, students must enroll in ENGL 101. Not open to students who have received credit for ENGL 101. ENGL 111 may not be used as a humanities elective or to satisfy the humanities distribution requirement. 3 semester hours

ENGL 131  LITERATURE OF THE WESTERN WORLD I  3 Semester Hours
A critical and historical survey of the significant works in Western literature from the Ancient World through the Renaissance. Authors and works may include the Bible, Homer, Sophocles, Sappho, Ovid, Marie de France, Dante, Milton, and others. No prerequisite. 3 semester hours
ENGL 165  THE SHORT STORY  3 Semester Hours
A survey of the various forms, techniques, and themes of the short story. Attention is given to larger aesthetic concerns and social context. This course is offered alternately as American and British. American authors studied range from Hawthorne, James, and Chopin, to O'Connor, Carver, Bambara, Alexie, and O'Brien. British authors range from Joyce, Lawrence, and Mansfield, to Amis, Sillitoe, Carter, and McEwan. 3 semester hours

ENGL 168  FILM AS LITERATURE  3 Semester Hours
An introductory course that focuses on analyzing and interpreting film as narrative art. Beginning with the early days of film, members of the class study cinema in its historic and artistic contexts using the tools of literary analysis, such as characterization, perspective, metaphor, symbolism, allusion, and intertextuality. Emphasis is placed on theories of narrative, genre, and authorship. Works studied include a range of genres (comedies, musicals, film noir, war film) by filmmakers such as Charlie Chaplin, Orson Welles, Alfred Hitchcock, Martin Scorsese, and the Coen Brothers. Students are expected to attend screenings as part of the course requirements. 3 semester hours

ENVR 104  EARTH PROCESSES AS NATURAL DISASTERS  3 Semester Hours
This course is a survey of Earth's surface processes that have a direct impact, often violently and without warning, on our global society. Information presented in this course integrates the principles of geology, meteorology, climatology, oceanography, and ecology and explores the many ways humans leave themselves susceptible to hazards driven by Earth's dynamic geologic and atmospheric processes. A series of case studies will be presented to students that outline each topic area covered. These include the broad topic areas of earthquakes, volcanoes, flooding, mass wasting, coastal hazards, subsidence, severe weather, mass extinction, wildfires, and global climate change. Designed for a general audience, this course is opened to all students who have a natural curiosity about events that often control our global existence. No prerequisites. 3 semester hours

ENVR 171  PRINCIPLES OF ENVIRONMENTAL SCIENCE  3 Semester Hours
This course provides an intensive examination of the fundamental principles that govern and shape our environment. While designed primarily as an introduction to the field of environmental science for science majors, this course is intended for all students who want to learn about environmental issues and problems. Topics include ecosystems, human populations, geologic processes, atmospheric and hydrologic systems, pollution, energy resources, urbanization, and environmental history and ethics. ENVR majors must also register for ENVR 210. This course is not open to students who have taken ENVR 100. Three hours lecture. Prerequisite: none.

ENVR 173  INVESTIGATING ENVIRONMENTAL SCIENCE LAB  1 Semester Hours
This is a laboratory course designed to complement ENVR 171. Lab inquiry activities will include topics in experimental ecology in model ecosystems, ecosystem modeling, and environmental assessment/environmental quality. There will be weekly assignments and/or projects for each topic, and a final exam. This course fulfills the College of Arts and Sciences science laboratory requirement. 3 hours laboratory. Corequisites: BIOL 161, ENVR 171.

ENVR 207  OCEANOGRAPHY  4 Semester Hours
This course introduces the physical and biological nature of the oceans: their topography and circulation, chemical composition, physical and chemical characteristics of marine habitats, relationship to geologic, geographic, and economic problems. Quantitative chemical and physical methods employed in the laboratory include processing oceanographic data. Field trips are required. 3 hours lecture. 3 hours laboratory. 4 semester hours

ESSC 109  INTRODUCTION TO WEATHER AND CLIMATE  3 Semester Hours
This course is designed to provide a descriptive survey of weather and climate for nonscience majors. Subjects include composition and structure of the atmosphere, solar and terrestrial radiation, temperature, atmospheric stability, forms of condensation and precipitation, pressure and wind systems, severe weather (thunderstorms, tornadoes, and hurricanes), weather analysis and forecasting methods, air pollution, the changing climate, world climates, and optical phenomena in the atmosphere. The laboratory component ESSC 119 is a separate course. Credit will not be granted for both this course and ENVR/PHYS 209 Meteorology. No prerequisites. 3 hours lecture. 3 semester hours

ESSC 119  INTRODUCTION TO WEATHER AND CLIMATE LABORATORY  1 Semester Hour
This laboratory course is designed to complement ESSC 109. Students engage in exercises that involve analyses of daily weather cycles, employing instruments to determine atmospheric temperature and humidity, learning about the forms of condensation and
precipitation, studies of global pressure and wind systems, analyses of surface and upper-air weather maps, understanding the nature of air pollution, and classification of world climates. This course fulfills the College of Arts and Sciences science laboratory requirement. Corequisite: ESSC 109. 2 hours laboratory. 1 semester hour

GWS S101  INTRO TO GENDER AND WOMENS STUDIES  3 Semester Hours
This course focuses on the experiences of women and the significance of gender from an interdisciplinary and multicultural perspective. It explores the extent to which gender, as well as other social characteristics such as race, class, and sexual orientation, affect access to opportunity, power, and resources. It also examines the contributions of women to society and to social change. Satisfies distribution requirement.

HIST 101  WESTERN CIVILIZATION II  3 Semester Hours
A study of select themes in European history from the Later Middle Ages to Napoleon. Topics of special interest include the Renaissance, the Reformation, the Scientific Revolution, the Enlightenment, and the French Revolution. No prerequisite.

HIST 102  WESTERN CIVILIZATION III  3 Semester Hours
A study of select themes in European history from Napoleon to the present. Topics of special interest include the growth of industrialism, nationalism, socialism, and militarism. No prerequisite.

HIST 112  WORLD CIVILIZATION SINCE 1500  3 Semester Hours
This course provides a global perspective on the past since 1500. Building on the themes of “tradition” and “encounter,” the course will examine the development of political, social, economic, and cultural experiences that have shaped the peoples of such regions as Asia, the Middle East and Africa from the sixteenth century to the present.

HIST 122  AMERICAN CIVILIZATION II  3 Semester Hours
In studying the nature of the American national character from the Civil War to the present, this course will treat economic, political and social developments.

HM 101  INTRODUCTION TO HOSPITALITY INDUSTRY  3 Semester Hours
A study of the business and career opportunities within the hospitality industry. The course begins with a look at the history and development of the industry and proceeds to current trends and characteristics of resorts, hotels, restaurants, and industrial feeding operations. Economic trends in travel and leisure are analyzed in terms of their significance to the hospitality industry.

HUM 382  MODERN CHINESE LITERATURE IN TRANSLATION  3 Semester Hours
This course surveys the literary representation of historical, political, and social conflicts in the 20th century of China. This course brings into focus the literary revolution and revolutionary literature in modern China, as well as the writers’ political agenda in shaping Chinese modernity. Through close reading and critical discussion, students develop a nuanced appreciation for the literary texts of modern China, Taiwan, and Hong Kong. No knowledge of Mandarin Chinese or prior coursework on Chinese literature is required. 3 semester hours

MGT 100  UNDERSTANDING AND WORKING IN ORGANIZATIONS  3 Semester Hours
This is an introductory course for freshman business students and for undecided students who wish to learn about the value of a degree and career in business. Students in this course develop an understanding of how business firms work, compete and succeed in the marketplace. Using the value chain framework, this course exposes students to the different functions of business, how various business activities fit together to make an organization, and what it means to work and manage in different functional areas of the firm. Students learn how industry dynamics and business activities affect operations and outcomes. In addition to establishing a foundation for subsequent business courses, MGT 100 also has a strong career development component. Students engage in the process of career planning by assessing their personal interests, creating a resume, developing a career action plan, and meeting with career counselors. This course uses a hands-on learning model and brings a variety of industry speakers into the classroom to teach students about local industry and potential employment opportunities.

MATH 101  FUNDAMENTALS OF MATHEMATICS  3 Semester Hours
This is a developmental mathematics course designed to review elementary algebra, to prepare students for further mathematics courses, and to develop problem-solving skills and critical thinking in mathematics. Topics include the real number system, linear equations and inequalities, exponents and polynomials, factorization, rational expressions, roots and radicals, and graphing. Because this course is developmental, it cannot count toward fulfilling the science distribution requirement. It may not be taken after completing any mathematics course with a higher number.

MATH 111  MATHEMATICAL IDEAS I  3 Semester Hours
This course is designed for students pursuing early childhood or elementary school teacher certification. Emphasis is placed on learning concepts and developing an understanding of mathematics as a body of connected ideas. The NCTM (National Council of Teachers of Mathematics) Principles and Standards for School Mathematics provides a framework for the selection of topics for
this course. Topics are presented in a historical context and include an introduction to problem solving; elementary set theory; patterns; relations and functions; number concepts and relationships; and elementary number theory. Prerequisite: Humanities or social science major, elementary/early childhood major or permission of instructor; MATH 101 or at least Level 3 on the Mathematics Assessment.

MATH 112 MATHMATICAL IDEAS II 3 Semester Hours
This is a second course in mathematics designed for students pursuing early childhood or elementary school teacher certification. Emphasis is placed on learning concepts and developing an understanding of mathematics as a body of connected ideas. The NCTM (National Council of Teachers of Mathematics) Principles and Standards for School Mathematics provides a framework for the selection of topics for this course. Topics are presented in a historical context and include proportional reasoning, measurement, geometry, geometric transformations, and data analysis. Prerequisite: Humanities or social science major, elementary/early childhood major or permission of instructor; MATH 101 or at least Level 3 on the Mathematics Assessment.

MATH 114 BASIC CONCEPTS OF PROBABILITY AND STATISTICS 4 Semester Hours
This course is designed as a science elective for students pursuing early childhood and/or elementary school teacher certification. Topics may include empirical and theoretical probability, principles of counting, graphical representation of data, measures of central tendency and variability, and statistical inference. Prerequisite: Humanities or social science major, elementary/early childhood major, or permission of instructor; MATH 101 or at least Level 3 on the Mathematics Assessment.

MATH 116 NATURE OF MATHEMATICS 3 Semester Hours
This course is an introduction to the nature and utility of mathematics, designed for students majoring in humanities, social sciences, or education. Mathematical topics are chosen from the following: sets, logic, numeration systems, numbers, trigonometry, networks and graph theory, probability and statistics with applications to growth, financial management, combinatorics, and voting. Prerequisites: Humanities, social sciences, or education major, or permission of instructor; MATH 101 or at least Level 3 on the Mathematics Assessment.

MATH 117 ELEMENTARY FUNCTIONS 3 Semester Hours
The course starts with a review of elementary algebra and moves on to the study of functions and graphs (emphasizing polynomial, exponential, and logarithmic functions), systems of linear equations, and matrices and linear programming. Prerequisite: MATH 101 or at least Level 3 on the Mathematics Assessment.

MATH 118 ELEMENTARY CALCULUS I 3 Semester Hours
Concepts of calculus are studied. The emphasis is on the differentiation and integration of polynomial, rational, exponential, and logarithmic functions. Prerequisite: MATH 117 or MATH 120 or at least Level 4 on the Mathematics Assessment. 3 semester hours

MATH 120 PRECALCULUS 4 Semester Hours
This course is designed for students who need to take calculus but lack the prerequisite background. Topics include a review of real numbers; algebra (fractions, exponents, roots, equations of degree 1 and 2); elementary functions (polynomials, rational functions, trigonometric functions); and basic concepts from geometry. Solving of word problems are emphasized throughout. Credit will not be granted for both MATH 120 and 117. Prerequisite: MATH 101 or at least Level 3 on the Mathematics Assessment.

MATH 131 CALCULUS WITH REVIEW I 4 Semester Hours
This is the first semester of a three-semester sequence in differential and integral calculus of a single variable. The course introduces the concept of the derivative and some of its applications. After a review of coordinate systems and functions, including polynomials, rational and trigonometric functions, the course covers limits, continuity, differentiation, and applications of derivatives. Typical applications include related rates, curve sketching, linearization and differentials, Newton’s method, and optimization. Prerequisite: MATH 120 or at least Level 4 on the Mathematics Assessment.

MATH 141 CALCULUS I 4 Semester Hours
This is the first of a two-semester sequence in differential and integral calculus. It covers limits and continuity, differentiation of algebraic and trigonometric functions, applications of derivatives, the Mean Value Theorem, antiderivatives, Riemann sums, the Fundamental Theorem of Calculus, integration by substitution, and some applications of definite integrals. Prerequisite: MATH 120 with a grade of at least a B or at least Level 5 on the Mathematics Assessment.

**MATH 151 ELEMENTARY DISCRETE MATHEMATICS I** 3 Semester Hours
This is an introductory approach to discrete mathematics. Topics include propositional logic and an introduction to first order logic, set theory, number theory, and relations. Various proof techniques, including induction, will be taught and used throughout the course. Applications are stressed. Prerequisite: MATH 101 or at least Level 3 on the Mathematics Assessment.

**MIN 188 INTRODUCTION TO INFORMATICS** 3 Semester Hours
This course introduces students to the broad nature of informatics. It details how individuals and society interact with computers, and how both computers and individuals, in turn, interact with other systems, such as the media. The course provides an introduction to the computer, the internet, HTML, algorithms and information and databases.

**MS 101 LEADERSHIP AND PERSONAL DEVELOPMENT** 1 Semester Hours
MS 101 introduces students to the personal challenges and competencies that are critical for effective leadership. Students learn how the personal development of life skills such as critical thinking, goal setting, time management, physical fitness, and stress management relate to leadership, officering, and the Army profession. The focus is on developing basic knowledge and comprehension of Army leadership dimensions while gaining a big picture understanding of the ROTC program, its purpose in the Army, and its advantages for the student. 1 semester hour

**MIS 180 COMPUTING AND SPREADSHEETS** 1 Semester Hours
Today’s business professionals are required to be more involved with computer application usage and development. The student has to demonstrate the understanding and ability using electronic spreadsheets for decision support purposes. Using state-of-the-art spreadsheet techniques, the student will be required to create and manipulate spreadsheet data, perform sensitivity analysis (what-if scenarios), perform simple macro programming, and create graphs and charts.

**MODERN LANGUAGES**

**CHNS 101 ELEMENTRY CHINESE I** 3 Semester Hours
These courses introduce students to basic Chinese grammar and vocabulary through a variety of speaking, listening, reading, and writing activities. Recommended for students with little or no previous Chinese instruction. 3 semester hours each

**FREN 101 ELEMENTARY FRENCH I** 3 Semester Hours
This basic course of study of the French language with emphasis on speaking and aural comprehension offers an introduction to the culture and the civilization of France through graded readings. Students are encouraged to use the tapes available in the language laboratory.

**FREN 201 INTERMEDIATE FRENCH I** 3 Semester Hours
This thorough review of French grammar offers an introduction to French literature through selected texts. Emphasis on the strengthening of aural-oral skills in French is continued.

**FREN 301 FRENCH CONVERSATION AND COMPOSITION I** 3 Semester Hours
Intensive practice in oral and written expression. Topics for discussion and written assignments will be drawn from contemporary French and Francophone culture. Prerequisites: FREN 202 or consent of the instructor.

**GRMN 101 ELEMENTARY GERMAN I** 3 Semester Hours
This multiple approach to language learning is an introduction to German culture and civilization through graded readings. The student is introduced to the fundamentals of German linguistics and, at the same time, is drilled in diction and given elements of grammar and rudiments of composition.

9
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRMN 201</td>
<td>INTERMEDIATE GERMAN I</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 201</td>
<td>INTERMEDIATE ITALIAN I</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 301</td>
<td>ITALIAN CONVERSATION AND COMPOSITION I</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 101</td>
<td>ELEMENTARY JAPANESE I</td>
<td>3</td>
</tr>
<tr>
<td>JAPN 201</td>
<td>INTERMEDIATE JAPANESE I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 101</td>
<td>ELEMENTARY SPANISH I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 201</td>
<td>INTERMEDIATE SPANISH I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 301</td>
<td>SPANISH CONVERSATION AND COMPOSITION I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 101</td>
<td>HISTORY AND LITERATURE OF MUSIC I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 306</td>
<td>MUSIC OF THE CLASSICAL PERIOD</td>
<td>3</td>
</tr>
</tbody>
</table>

**MODERN LANGUAGES (END LIST)**

**INDIVIDUAL PHYSICAL EDUCATION COURSES LISTED AT BOTTOM OF DOCUMENT**
PHIL 105  INTRODUCTION TO LOGIC  3 Semester Hours
A consideration of the forms of valid reasoning and argument with practice in detection of fallacies, including a survey of methods of deductive and inductive reasoning is undertaken. Examination of the concepts of validity and consistency, factual support, and probability with special emphasis on methods of verification and proof in various sciences and in daily life. No prerequisite.

PHYS 111  PHYSICS OF DIGITAL CIRCUITS  2 Semester Hours
This course covers the concepts of electric charge, current, voltage, power, heat, and the basic principles of digital circuits. In the lab, simple circuits such as gates, flip-flops, and counters are assembled and tested. 1 hour lecture. 2 hours lab.

PHYS 120  CONCEPTUAL PHYSICS  3 Semester Hours
A conceptual view of physical reality by using central ideas, principles, and relationships of physics and relating them to the everyday environment. The concepts presented are developed and supported with minimal mathematics. Concepts discussed include mechanics, properties of water, heat, sound, electricity and magnetism, light quantum mechanics, and atomic and nuclear physics. Designed as a science elective for business, humanities, and social science students.

POLS 101  AMERICAN GOVERNMENT AND POLITICS  3 Semester Hours
An introduction to basic concepts, functions and processes of politics and government, using the American system as a model. The course includes such subject matter as political socialization, constitutional government, the legislative process, presidential leadership and the bureaucracy, the role of the judiciary, political parties, interest groups, and problems of civil rights.

POLS 204  CURRENT ISSUES IN WORLD AFFAIRS  3 Semester Hours
This course introduces students to current issues in international relations. The course focuses primarily on such issues as relations between rich and poor nations, the race between food and population, energy, technology, and the threat to the environment. In addition, students may examine other issues in the headlines, such as terrorism, immigration, human rights, international trade, and the proliferation of chemical, nuclear, and biological weapons. The course hews rather closely to recent events.

PRWR 100  FUNDAMENTALS OF PROFESSIONAL WRITING  3 Semester Hours
This writing-enriched course introduces students to the diverse field of professional writing. Through required assignments and in-class exercises, students learn, practice, and improve their writing skills for various professional media, as well as begin compiling their first professional portfolio. Writing forms include print and electronic material. This course provides the suggested (but not required) basis for other courses in professional writing. Does not satisfy general education distribution requirement in humanities.

PSY 105  INTRODUCTION TO PSYCHOLOGY  3 Semester Hours
A general introduction to scientific psychology, including motivation and conflict, development, intelligence, learning, perception and sensation, and psychological tests.

RDG 105  CRITICAL READING AND STUDY STRATEGIES  3 Semester Hours
In this course, students develop critical thinking skills and study techniques for reading college level texts. Teaching and learning activities focus on strategies for developing vocabulary, maximizing reading comprehension, enhancing note taking from texts and lectures, building organizational skills, applying test-taking strategies, and demonstrating flexibility in reading. Learning activities emphasize the direct application of these reading strategies to current coursework in the various disciplines. This is a developmental course for freshmen. Offered only in the fall.

MS 101  LEADERSHIPS AND PROFESSIONAL DEVELOPMENT  1 Semester Hour
MS 101 introduces cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills such as critical thinking, goal setting, time management, physical fitness, and stress management relate to leadership, officership, and the Army profession. The focus is on developing basic knowledge and comprehension of Army leadership dimensions while gaining a big picture understanding of the ROTC program, its purpose in the Army, and its advantages for the student.
SOC 105  INTRODUCTION TO SOCIOLOGY  3 Semester Hours
A general introduction to sociology, including social organization, socialization, culture, and stratification, primary, organized and collective groups. Major educational, religious, legal, vocational and political concerns of man will be viewed in sociological perspective. Relations of the individual to society and its change will receive special attention.

SOC 240  GENDER AND INTERNATIONAL DEVELOPMENT  3 Semester Hours
This course focuses on how gender inequality is structured globally and how economic and political changes in the last half of the twentieth century have impacted these inequalities. To understand the impact of economic and political changes, we will specifically examine regions such as Latin America, Asia (Southeast, South Asia, China), Africa, and the Middle East and make comparisons with the United States. We will look at the social, economic, and political structure in different countries of these areas and see how gender inequality is socially constructed and impacted by changes. We will end the course by looking at some ways women have made changes in the structure of their countries and ultimately their own lives.

SW 107  INTRODUCTION TO SOCIAL WORK & SOCIAL WELFARE  3 Semester Hours
This course traces the development of US social policy aimed at addressing the needs of vulnerable populations and the ways in which the social work profession has contributed to and been shaped by that development. The social forces, values, and conceptions of social problems, which influence social policy choices, are examined; and elementary models of policy analysis are presented. The fields of social work practice that have evolved as a result of social policy choices will be explored. Finally, students will be introduced to the basic methods utilized by social workers as they work with and advocate for vulnerable populations.

<table>
<thead>
<tr>
<th>FRESHMEN PHYSICAL EDUCATION COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL 2012</strong></td>
</tr>
</tbody>
</table>

* Each class is .5 credit unless otherwise indicated
* 1.0 credit is needed to graduate.

PE 103  Tennis
Introduces basic skills and techniques of tennis. Students practice serves, forehand drive, backhand drive, volley, grip, footwork, rules and etiquette.

PE 105  Beginning Swimming
Learn to swim! Covers basic skills of strokes and water safety for those who want to swim.

PE 107A  Personal Fitness
All around cross-training includes running and lifting. Cardio based training with heart monitors and circuit training.

PE 107 B  Personal Fitness
For Army ROTC students. 6am early morning physical training.

PE 109  Volleyball
Introduction to rules and technique. Basic instruction to advanced play of competitive volleyball.

PE 112  Golf
Learn to hit like Tiger Woods! Introduction to basic technique, rules, and etiquette of golf.

PE 116  Aerobics
Learn the basics to great cardio health through movement to music

PE 118  Weight Training
Teaches students proper techniques of lifting and spotting. Provides information for putting together individual workout programs.
PE 119  Intermediate Swimming
Stroke mechanics offered. You will learn to swim with ease and strength.

PE 120  Scuba  (1 CREDIT)
Be a certified diver. Offered by Ultimate Scuba. Discounted cost: $TBA.
Held on campus. One weekend session. Contact:

PE 122  Social Dance
8 weeks only. 2 hour classes. Rule the floor with Jitterbug, Cha-Cha, Salsa, Swing and more.

PE 124  Outdoor Skills
Develop the confidence to take on wilderness adventure through ropes instruction, land navigation, and survival techniques.

PE 128  Boxing
Learn the skills, techniques, and rules of the ring of this Olympic sport. You will learn to punch!

PE 130  Street Wise Self Defense
Introduces and develops self defense techniques and practical applications for a variety of situations. Enhance your awareness of personal safety.

PE 137  Rock Climbing
Scale new heights on our award winning indoor climbing wall. Basic instruction and belay certification offered.

PE 139  T’ai Chi Chih
Learn the 19 moves of Moving Meditation to discover internal peace and harmony. This is not a martial art, but a globally practiced stress release.

PE 141  Basketball
Learn the fundamentals and rules to play ball for life.

PE 188A  Zumba Aerobics
The latest in Latin aerobics Join the fun.

PE 188B  Abs, Core and more
Tighten and tone. This class will get it done.

PE 188C  Run your first 5K
Train to race no matter what your pace. You’ll cross the finish line in style.

PE 188D  Kickboxing
Get fit and toned in this martial arts activity

PE 188E  Pilates
You’ll get ripped in this high paced class

PE 188F  Cardio Blast
Intense cardio training done to a unique beat.

PE 188G  Power Walking
Low impact cardio. Take your walk to a new level

PE 200  Varsity Sport Participation
1 credit. Fall sports register for the fall. Winter and Spring sports register for the spring. Participation in one full season of Varsity Sport will satisfy the PE Requirement for graduation. Check with your Head Coach and/or Advisor for information.
<table>
<thead>
<tr>
<th>FALL</th>
<th>SPORT</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
<td>200 A FOOTBALL</td>
<td>ISAAC COLLINS</td>
</tr>
<tr>
<td>PE</td>
<td>200 B SOCCER WOMEN</td>
<td>BRIAN SHEEHAN</td>
</tr>
<tr>
<td>PE</td>
<td>200 C SOCCER-MEN</td>
<td>BRENT JACQUETTE</td>
</tr>
<tr>
<td>PE</td>
<td>200 D CROSS COUNTRY-MEN</td>
<td>VINCE TOUEY</td>
</tr>
<tr>
<td>PE</td>
<td>200 E CROSS COUNTRY-WOMEN</td>
<td>KEVIN CUNNINGHAM</td>
</tr>
<tr>
<td>PE</td>
<td>200 F VOLLEYBALL</td>
<td>DONOVAN ANGLIN</td>
</tr>
<tr>
<td>PE</td>
<td>200 G CHEERLEADING</td>
<td>TBA</td>
</tr>
<tr>
<td>PE</td>
<td>200 H FIELD HOCKEY</td>
<td>LARISSA GILLESPIE</td>
</tr>
</tbody>
</table>