

| Subj | Cat | Title | Description | Method | MinCr | MaxCr |
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| ACCT | 220 | FINANCIAL ACCOUNTING | Familiarizes students with a basic understanding of generally accepted accounting principles (GAAP) and its applications. Includes accounting fundamentals, accounting for assets, liabilities and ownership interests, and analysis of accounting data. For non-accounting majors only. Three hours lecture per week. Prerequisite: BUSED.101. | LEC | 3 | 3 |
| ACCT | 221 | PRIN ACCOUNTING 1 | Presents the accounting cycle for service and merchandising activities of a sole proprietorship; special journals and ledgers, accrued and deferred items, cash, receivables and inventories. General ledger and/or spreadsheet computerized accounting is required. Three hours lecture per week. | LEC | 3 | 3 |
| ACCT | 222 | PRIN ACCOUNTING 2 | Further develops the accounting cycle; recording, summarizing, interpreting financial data for partnerships and corporations. Includes cash flows, long-term liabilities, plant assets and payroll accounting. A practice set and general ledger and/or spreadsheet computerized accounting are required. Three hours lecture per week. Prerequisites: ACCT.220 or ACCT.221 | LEC | 3 | 3 |
| ACCT | 223 | MANAGERIAL ACCTG | Focuses on the accounting, other quantitative, and qualitative analyses and information needed to foster optimal management decision making and reporting. Students will study various management accounting concepts, processes, and techniques available to provide that relevant information. Students are expected to be proficient in the use of computerized spreadsheet and word-processing software. For non-accounting majors only. Three hours lecture per week. Prerequisites: ACCT.220 or ACCT.222 and ITM.175. | LEC | 3 | 3 |
| ACCT | 310 | ACCT. INFO. SYS. | The course emphasizes accounting information systems, transaction cycles, and communication of financial information for management decisions within the context of business. Topics include ERP systems, e-business and electronic commerce, systems documentation including flowcharting, database management, internal control, business processes, transaction cycles, management reporting, projects using a midline ERP package and other projects using business software such as electronic spreadsheets. Three hours lecture per week. Prerequisite: ACCT.321. | LEC | 3 | 3 |
| ACCT | 321 | INTER ACCOUNTING 1 | Presents the conceptual framework of accounting, accounting environment and information processing system, financial statements and accounting standards, accounting uses of present and future value concepts, cash and receivables and inventories. Use of Peachtree Accounting Software to complete an accounting cycle through computer is required. Three hours lecture per week. Prerequisites: ACCT.222 or ACCT.220. (This is a required course for accounting majors, but it can be taken by non-accounting majors.) | LEC | 3 | 3 |
| ACCT | 322 | INTER ACCOUNTING 2 | Presents accounting standards for property, plant, and equipment, intangible assets, current liabilities and contingencies, long-term liabilities, contributed capital and retained earnings sections of stockholders equity, stock rights and options, and dilutive securities and earnings per share. Requires students to use an approved word processing software package to produce a research paper. Three hours lecture per week. Prerequisites: ACCT.321 | LEC | 3 | 3 |
| ACCT | 323 | INTER ACCOUNTING 3 | Presents accounting standards pertaining to investments in debt and equity instruments, revenue recognition, pension plans, leases, income taxes, accounting changes and error correction, Statement of Cash Flows, and accounting disclosures. The use of a spreadsheet program is required. Three hours lecture per week. Prerequisite: ACCT.322. | LEC | 3 | 3 |

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| ACCT | 348 | COST ACCOUNTING | In-depth study of the three major production costs raw material, factory overhead, and labor. This course requires moderate spreadsheet skills. Three hours lecture per week. Prerequisite: ACCT.222 or ACCT.223. | LEC | 3 | 3 |
| ACCT | 358 | MANAGERIAL REPORTING | Continuation of ACCT.348, concentrating on management accounting issues, including standard costs and budgets. Emphasis on case studies used to analyze and interpret cost data. Intended primarily for accounting majors. Three hours lecture per week. Prerequisite: ACCT.348 | LEC | 3 | 3 |
| ACCT | 424 | ADV FED TAX ACCOUNT | Assigns group and individual projects selected from the following areas of advanced tax accounting; partnerships and corporations, Pennsylvania corporate taxes, estates and trusts, reporting to governmental agencies. Includes lectures, discussion of issues and practice in the solution of problems. Three hours lecture per week. Prerequisite: ACCT.324. | LEC | 3 | 3 |
| ACCT | 431 | TOPICS IN FIN REPORT | Topics in Financial Accounting focuses on the accounting and reporting for partnerships, foreign currency transactions, restatement of financial statements of foreign subsidiaries from foreign currency units to U.S. dollars, and accounting and reporting for governmental and non-profit organizations. It also covers segment reporting, interim reporting, derivative financial statements, and SEC reporting requirements. Three hours lecture per week. Prerequisite: ACCT.323. | LEC | 3 | 3 |
| ACCT | 442 | AUD THEORY & PROCED | Provides a rigorous introduction to concepts and techniques used by CPA firms to perform financial statement audits. Includes professional and ethical standards, legal liabilities, audit objectives, planning, risk assessment, evaluation of internal control, selection and use of audit procedures, audit reports, and work paper preparation and techniques to support the audit report. Four hours lecture per week. Prerequisites: ECONOMIC.256, ACCT.310 and ACCT.323. | LEC | 4 | 4 |
| ACCT | 510 | ADVANCED AIS | Examines the design and analysis of accounting information systems and the tools and techniques utilized to support the business environment. May be offered in traditional and distance education formats. Prerequisites: Graduate Standing. | LEC | 3 | 3 |
| ACCT | 523 | ADV TAX ACCOUNTING | Utilizes case studies and problems to examine in depth the tax consequences of many events and transactions. Emphasis is on applying tax laws, as opposed to learning individual tax rules. Topics include income and expense determinations, property concepts and transactions, and taxation of entities. Three hours lecture per week. Prerequisites: Graduate Standing. | LEC | 3 | 3 |
| ACCT | 552 | CONTROLLERSHIP | Examines the business environment related to the controller level of managing the firm. Selected topics include: Working capital policy and management, Long-term capital financing, Enterprise continuity related to risk management; Planning and budgeting; Business performance; Cost behavior and cost-volume-profit modeling; Project management and implementation; Human resource management for the accounting department; Customer relationship management from the credit and collection perspective; Corporate social responsibility; Ethics. Three hours lecture per week. Prerequisites: ACCT.220 or ACCT.222, ACCT.223 or permission of the instructor. | LEC | 3 | 3 |
| AEROSTUD | 102 | FOUND OF THE USAF 2 | This survey course briefly covers topics relating to the Air Force and defense. It focuses on the structure and missions of Air Force organizations, officer ship and professionalism. It is also a good introduction into the use of communication skills. One hour lecture per week. | LEC | 1 | 1 |
| AEROSTUD | 104 | LEADERSHIP LAB | This course (to be taken in conjunction with AS 101 and 102) is a weekly laboratory that touches on the topics of Air Force customs and courtesies, health and physical fitness, and drill and ceremonies. | LEC | 0 | 0 |

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| AEROSTUD | 202 | EVOL OF USAF A&S PW2 | This survey course is concerned with the beginnings of manned flight and the development of aerospace power in the United States, including the employment of air power in WWI, WWII, Korea, Vietnam, the Gulf War and the peaceful employment of U.S. air power in civic actions, scientific missions and support of space exploration. One hour lecture per week. | LEC | 1 | 1 |
| AEROSTUD | 204 | LEADERSHIP LAB | This course (to be taken in conjunction with AS 201 and 202) provides you with the opportunity to demonstrate fundamental management skills and prepares you for Field Training. | LEC | 0 | 0 |
| AEROSTUD | 302 | AF LEADERSHP STUDY 2 | Teaches cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills and communication. | LEC | 3 | 3 |
| AEROSTUD | 304 | LEADERSHIP LAB | Application of leadership theory, individually and in groups. The course is designed to accomplish effective mission accomplishment, as well as an emphasis in communications skills development. Three hour weekly lab. Prerequisite: AEROSTUD.303 or permission of instructor and the AFROTC approved membership in the Professional Officer Corps. | LEC | 0 | 0 |
| AEROSTUD | 402 | NAT SEC AFF/PRE AD 2 | Designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. The final semester provides information that will prepare the cadets for Active Duty. | LEC | 3 | 3 |
| AEROSTUD | 404 | LEADERSHIP LAB | Application of leadership theory, individually and in groups. The course is designed to accomplish effective mission accomplishment, as well as an emphasis in communications skills development. Three hour weekly lab. Prerequisite: AEROSTUD.403 or permission of instructor and the AFROTC approved membership in the Professional Officer Corps. | LEC | 0 | 0 |
| ANTHRO | 101 | INTRO ANTHROPOLOGY | Introduces students to the discipline of General Anthropology. Focuses on the evolution of the human species, the human past as revealed through archaeology, the nature of human language and its relation to culture, and the diversity of cultures that exist in the world today. Open to all students; taught by lecture and discussion; offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity, one GEP toward Goal 5 Natural Sciences and one GEP toward Goal 6 Social Sciences in general education. May be offered in traditional and distance education formats. Prerequisite: None. Three hours lecture per week. | LEC | 3 | 3 |
| ANTHRO | 102 | ANTHRO & WORLD PROBS | Explores the origins of current global problems and evaluates a variety of cultural solutions to those problems, with the goal of developing a knowledge base and critical thinking skills to engage in reflection, decision-making, and action that leads to responsible global, national, and local citizenship. Open to all students, taught by lecture and discussion, and offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity, one GEP toward Goal 6 Social Sciences and one GEP toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |

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| ANTHRO | 200 | PRIN CULT ANTHROP | Introduces the discipline of Cultural Anthropology and provides the student with a holistic understanding of human cultural diversity. Variations in human universal practices are presented, including adaptive strategies, subsistence systems, sociopolitical organization, economics, language, art, communication, kinship, family, marriage, gender, rituals, performance, and religion. Open to all students and serves as the foundation course for the anthropology major and minor. Taught by lecture and discussion and offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 6 Social Sciences in general education. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| ANTHRO | 210 | PREHIST ARCHAEOLOGY | Provides a worldwide examination of human prehistory from the origins of our species to the development of early civilizations. Focuses on regional differences and similarities in key evolutionary transitions including the adoption of agriculture and sedentary lifeways, urban origins, and the rise of complex states. Field methods are also discussed. Open to all students and serves as a foundation course for the anthropology major and minor; lecture and discussion; offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity, one GEP toward Goal 5 Natural Sciences and one GEP toward Goal 6 Social Sciences in general education. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| ANTHRO | 220 | HUMAN ORIGINS | Studies the emergence and development of humans, ancient fossil evidence, the biological basis of human culture and society, and the origins of the social units of fossil hominids. A review of non-human primates and their behavior is also addressed. Open to all students. Serves as a foundation course for the anthropology major and minor; lecture and discussion; offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| ANTHRO | 221 | FORENSIC ANTHRO | Explores the methods of physical anthropology and archaeology in the analysis of human skeletal remains resulting from unexplained deaths. Students will learn how race, sex, age, stature, and cause of death are determined from the human skeleton. Special attention will be paid to the cause and manner of death in fleshed bodies so that students will take away a general knowledge of forensic pathology. Open to all students; taught by lecture and discussion; offered on a rotating basis. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| ANTHRO | 250 | NEANDERTHALS | Explores the origin and fate of the prehistoric population called Neanderthals. It will explore the historical and social foundations of the Neanderthal debate and show how this debate is relevant to our understanding of human biological, behavioral, and cultural differences. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: None. | LEC | 3 | 3 |
| ANTHRO | 312 | SOUTH AMERICAN ARCH | A survey of prehistoric cultures of South America. Emphasizes the civilizations of the Andean zone and the role played by the Amazonian region in the development of Andean Cultures. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements/This course is approved as a Diversity General Education Course. Prerequisites: ANTHRO.101 or ANTHRO.200 or ANTHRO.210 or consent of the instructor. Three hours lecture per week. | LEC | 3 | 3 |
| ANTHRO | 430 | ANTHRO OF REPRO | Provides a framework to comparatively analyze the biological evolution, theoretical history, and various ethnographic studies of human reproduction. The Anthropology of Reproduction explores the biological and cultural adaptations of human reproduction from various locations around the world, fostering a cross-cultural understanding of the fascinating variety of human reproductive activity. Three hours lecture per week. Prerequisites: ANTHRO.200 and ANTHRO.220 or permission of instructor. | LEC | 3 | 3 |

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| ANTHRO | 470 | ANTHRO THGT & THEORY | Intensive survey of the leading methods and theories of anthropological and ethnological interpretation with special emphasis on the concept of culture and its practical application to modern problems. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. | LEC | 3 | 3 |
| ARABIC | 101 | ARABIC I | Seeks to develop novice proficiency with emphasis on intercultural communication in the context of the Arabic world. Language laboratory activities required. Not offered every semester. This course satisfies one additional course requirement from the approved list of communication courses for general education requirements/This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| ARABIC | 102 | ARABIC II | Develops further the four language skills: speaking, listening, reading, and writing to a proficiency level regarded as basic communication in Arabic. ARABIC.102 is for students who wish to continue studying Arabic at the second level. Arabic language study is taught in its cultural context, including history, culture, diversity, and comparison with students' native culture. Practice in language laboratory and/or use of electronic language-learning media is required. ARABIC.102 is offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 8 Second Language in general education. Three hours lecture per week. Prerequisite: ARABIC.101 or equivalent proficiency level. This course is generally appropriate for students with one or two years of high-school ARABIC. | LEC | 3 | 3 |
| ARABIC | 203 | ARABIC 3 | Continues the development of the four language skills in Arabic including speaking, listening, reading and writing, with a focus on Arabic cultures. The third course in the sequence of Arabic courses will strengthen communicative proficiency in Arabic as well as develop the ability to understand and appreciate Arabic cultures. The course includes a combination of lectures and activities, and students are required to produce formal and informal oral and written assignments. Open to all students and counts for a minor or a major in Languages and Cultures: Arabic Studies Track. This course earns one GEP toward Goal 1 Communication in general education and one GEP toward Goal 4 Cultures and Diversity in general education. Prerequisites: ARABIC.102 or the equivalent proficiency level. Offered once a year. | LEC | 3 | 3 |
| ARABIC | 212 | EURO-ARAB CINEMA | Introduces students to Euro-Arab cinema and culture through the analysis of films that portray both Arab and European characters. The course investigates the cultural, social and political issues that these films discuss as it also aims to introduce key concepts in transnational cinema. Students will study political, social, cultural and religious diversity as reflected in a number of movies. The course will also address the representation of women in films. The course is based on movie screenings, readings and students' contributions through oral and written assignments. Open to all students and counts for a minor or a major in Languages and Cultures: Arabic Studies Track. Prerequisites: None (course taught in English). Offered every other year. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 7 Arts and Humanities in general education. | LEC | 3 | 3 |
| ARMY | 120 | INTRO TO MIL ISSUES | Provides background in basic field craft skills essential to leaders. Learn/apply principles of effective leading. Develops communication skills to improve individual performance and group interaction. Additional instruction includes marksmanship, first aid, and land navigation. One-hour class per week, approximately 20 hours of laboratory time per semester. | LEC | 1 | 1 |

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| ARMY | 220 | APL LDRSHP & MGT II | Presents the fundamentals of small unit leadership, mission planning, and problem solving techniques. Students learn through case studies and field training how to evaluate and apply leadership styles and techniques, additionally students are trained in U.S. Army values, ethics, and leadership aspiring to serve in the U.S. armed services as commissioned officers. Students enrolled in ARMY 220 are taught military leadership specifically related to professionalism, service, honor, and teamwork. Two-hour class per week, approximately 20 hours of professional development time per semester, and a minimum of six hours a week of physical fitness lab. This course earns two GEPs toward Goal 10 Citizenship in general education. Prerequisites: ARMY 110, 120, and 210 - or Instructor permission. | LEC | 2 | 2 |
| ARMY | 320 | ADV MILITARY SCI II | Practical application of the skills learned in ARMY.310. Students learn how to apply planning and management skills properly in conjunction with small unit tactics. One 3-hour class per week, approximately 20 hours of laboratory time per semester. | LEC | 3 | 3 |
| ARMY | 331 | US MIL SCI & HIST | Examines the military heritage of the United States from the colonial period to the late twentieth century. The goal of the course is to develop students' awareness of the relationship of the U.S. military establishment to American society. Further, the course will focus on the evolution of war and strategy and in the progression of military professionalism, with an emphasis of the history and purpose of joint operations, and discuss the role of history and heritage in understanding the Army profession. This is a required course for all cadets seeking a commission. Prerequisites: ARMY 110 - Intro Milit Science & ARMY 120 - Intro to Mil Issues - or Instructor permission. | LEC | 3 | 3 |
| ARMY | 420 | ADV LDRSHP & MGT II | Continues the methodology from ARMY.410. Students learn basic procedures of military law and their application in a military environment identify and resolve ethical dilemmas, refine counseling and motivating techniques. One 3-hour class time per week, approximately 20 hours of laboratory time per semester. | LEC | 3 | 3 |
| ARTHSTRY | 101 | INTRO TO ART HIST | Examines major works of art and architecture and the cultural forces that shaped them from ancient times to the present, from a global perspective. This course will enhance students' understanding of cultural diversity through art appreciation. This course is appropriate for those seeking enrichment. The format is primarily lecture. This course earns two GEPs toward Goal 4 Cultures and Diversity and one GEP toward Goal 7 Arts and Humanities in general education. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| ARTHSTRY | 236 | REN TO CONTEMP ART | Surveys the art and architecture of Europe from 1400 to the 21st century. The course covers major periods and trends in art history, including but not limited to Renaissance, Baroque, Realism, Impressionism, Expressionism, Cubism, Surrealism and Dada. Students examine the relationship between individual works of art, the artists who created them and major cultural, social, and political changes. Lecture/discussion. Open to majors and non-majors. There are no prerequisites for this course, which carries 3 GEPs in Arts and Humanities. | LEC | 3 | 3 |
| ARTHSTRY | 357 | CONTEMPORARY ART | Surveys forms of visual expression in our time and examines individual art works, artists, and their connections to social trends, theoretical ideas, and contemporary events. Lecture/discussion. Open to majors and non-majors. Typically offered in the spring semester. Prerequisites: None. Three hours lecture per week. This course earns three GEPs toward Goal 7 Arts and Humanities in general education. | LEC | 3 | 3 |

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| ARTHSTRY | 373 | MEDIEVAL ART | Examines the visual arts in Europe and Byzantium from 400 to 1400, focusing on major artistic trends and social and cultural interactions that influenced them. The course is taught in a lecture/discussion format with focused research and writing about art. An optional field trip to New York City museums is usually scheduled. Open to majors and non-majors. Prerequisites: ENGLISH 101 and 30 credit hours or by permission of the instructor. | LEC | 3 | 3 |
| ARTHSTRY | 376 | SP TOPICS/ART HIST | Provides focused examination of selected topics in art history. The course's reading assignments, deployment of art historical terms, and analysis of works of art with respect to their historical and cultural contexts are aimed at analyzing and understanding various artistic traditions. Lecture/discussion. Open to majors and non-majors. Three hours lecture per week. Prerequisites: None. This course earns three GEPs toward Goal 7 Arts and Humanities in general education. | LEC | 3 | 3 |
| ARTSTDIO | 111 | INTRO DRAWING | Examines the fundamentals of drawing and visual communication in general. Students learn and practice perceptual strategies, develop sensitivity to basic drawing materials, and become familiar with varied expressive methods of drawing via analysis of images from historical and contemporary art precedents, including non-Western traditions. Studio sessions include extended work with drawing materials, individual instruction and group critique, demonstrations, and lecture. Introductory Drawing serves as a foundation requirement for Art Studio majors, and as an introduction to creative work and visual argument for non-majors. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. This course meets five hours per week. Prerequisites: None. | LAB | 3 | 3 |
| ARTSTDIO | 153 | ARTSTDIO FOUNDATIONS | Introduces visual communication, the elements and principles of design, and safe art studio practices through exploration of varied 2-dimensional, 3-dimensional and time-based media. Artistic expression and varied critical strategies are studied in contemporary and historical contexts including nonwestern contexts. Sessions include extended work with materials, individualized instruction, critique, demonstrations, and lecture. This course meets 5 hours per week. Homework assignments require 4-5 hours each week outside of class. Students are responsible for purchasing some materials for projects. Prerequisites: None. | LAB | 3 | 3 |
| ARTSTDIO | 212 | INTERM DRAWING | Examine and practice the language and techniques of drawing and visual communication in general. Refine perceptual strategies and further develop sensitivity to the application of drawing materials. Utilize varied expressive methods of drawing, and analyze images from historical and contemporary art precedents, including non-Western traditions. Learn color drawing methods, work with combinations of media, and create large-scale works. Locate and develop personal imagery and formal strategies. Studio sessions include extended work with drawing materials, individual instruction and group critique, demonstrations, and lecture. Intermediate Drawing serves as a requirement for Art Studio majors concentrating in Drawing and as a second level art studio course option for Art Studio minors. This course meets five hours per week. Prerequisite: ARTSTDIO.111. | LAB | 3 | 3 |
| ARTSTDIO | 221 | FABR DESIGN: DYE | Investigates dye as a form of visual communication. Students explore the medium's expressive potential, use varied dye techniques, and are introduced to the discipline's professional practices. Students are exposed to varied subjects, conceptual frameworks, and historical precedents, including non-Western traditions. Course content includes silk painting, Japanese Shibori, direct dyeing, improvisational screen printing, color removal and alternative fabric design. Studio sessions include extended work with dye materials, individual instruction and group critique, demonstrations, and lecture. Fabric Design: Dye serves as an interdisciplinary requirement for Art Studio majors, and as an introduction to creative work and visual argument for non-majors. This course meets five hours per week. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: None. | LAB | 3 | 3 |

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| ARTSTDIO | 231 | INTRO PAINTING | <p>Introduces the methods and materials of painting as a form of visual communication. Students learn and practice the medium's expressive potential, use varied paint application techniques, apply color theory, and are introduced to the discipline's professional practices. Students are exposed to varied subjects, conceptual frameworks, and historical precedents, including non-Western traditions. Studio sessions include extended work with painting materials, individual instruction and group critique, demonstrations, and lecture. Introductory Painting serves as an interdisciplinary requirement for Art Studio majors and as an introduction to creative work and visual argument for non-majors. This course earns one GEP toward Goal 1 Communication in general education and two GEPs toward Goal 7 Arts and Humanities in general education. This course meets five hours per week. Prerequisites: None.</p> | LAB | 3 | 3 |
| ARTSTDIO | 232 | INTERMEDIATE PAINTING | <p>Continues exploration of the expressive and communicative potential of oil and/or acrylic painting. Varied subjects, critical approaches, and techniques are introduced. Independent research will lead to development of a unique body of work and coherent artist's statement. Studio sessions include demonstration, critique, individual instruction, and extended work sessions. This course meets 5 hours per week; students are expected to spend at least 4-5 hours per week on homework. While the studio provides some materials, students are responsible for purchasing some supplies for projects. Prerequisites: ARTSTDIO.231.</p> | LAB | 3 | 3 |
| ARTSTDIO | 243 | SCULPT: WOOD & METAL | <p>Focuses on additive sculpture methods using wood, and metal. The students learn varied construction techniques using the wood-working equipment (joinery, fastening, shaping) and metal-working equipment (welding, bending, cold fastening and cutting). Class assignments address contemporary concepts and foster personal expression. Students learn safe practices in the studio and fabricate sculptures based on the various techniques, history and concepts explained throughout the semester including non-western uses of wood and metal in object making. Studio sessions include technical instruction, studio work time, and development of concepts through research, class discussion, group critique and lecture. This course serves as an interdisciplinary requirement for Art Studio majors and as an introduction to creative work and visual argument for non-majors. Students can expect to purchase materials for individual assignments as well as personal protective equipment. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: None. This course meets five hours per week.</p> | LAB | 3 | 3 |
| ARTSTDIO | 244 | SCULPT: THE FIGURE | <p>Connects students with the history of figurative sculpture; the class explores several techniques that are used in the creation of figurative work. These will include but are not limited to, modeling in clay, mold making, and casting. Students will research how they can use the figure to relay conceptual ideas about contemporary life. Students will learn safe use of materials and tools relating to casting, mold making and modeling. The class will also address nonwestern figurative traditions in sculpture. Studio sessions include technical instruction, studio work time, and development of concepts through research, class discussion, group critique and lecture. This course serves as an interdisciplinary requirement for Art Studio majors and as an introduction to creative work and visual argument for non-majors. Students can expect to purchase materials for individual assignments as well as personal protective equipment. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: None. This course meets five hours per week.</p> | LAB | 3 | 3 |

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| ARTSTDIO | 263 | PRINTMAKING: WOODCUT | Investigates lithography and relief printmaking as a form of visual communication. Students learn and practice the medium's expressive potential, use varied printing techniques, and are introduced to the discipline's professional practices. Students are exposed to varied subjects, conceptual frameworks, and historical precedents, including non-Western traditions. Studio sessions include extended work with printmaking materials, individual instruction and group critique, demonstrations, and lecture. Printmaking: Lithography and Relief serves as an interdisciplinary requirement for Art Studio majors, and as an introduction to creative work and visual argument for non-majors. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. This course meets five hours per week. Prerequisites: None. | LAB | 3 | 3 |
| ARTSTDIO | 265 | PRINTMAKING: ETCHING | Investigates intaglio printmaking as a form of visual communication. Students learn and practice the medium's expressive potential, use varied printing techniques, and are introduced to the discipline's professional practices. Students are exposed to varied subjects, conceptual frameworks, and historical precedents, including non-Western traditions. Studio sessions include extended work with printmaking materials, individuals instruction and group critique, demonstrations, and lecture. Printmaking: Intaglio serves as an interdisciplinary requirement for Art Studio majors, and as an introduction to creative work and visual argument for non-majors. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. This course meets five hours per week. Prerequisites: None. | LAB | 3 | 3 |
| ARTSTDIO | 281 | DIGITAL PHOTOGRAPHY | Introduces digital photography as a medium of visual expression. Technical emphasis is placed on fundamental camera controls and introduction to digital photographic techniques. Aesthetic analysis and theory are discussed. Studio sessions consist of critique, demonstration, lecture and individual instruction. Digital Photography serves as an interdisciplinary requirement within the Art Studio program, and as an introduction to creative work and visual argument for non-majors. There are no prerequisites for this course and it meets five hours per week. This course is offered every fall and spring term. | LAB | 3 | 3 |
| ARTSTDIO | 282 | DARKROOM PHOTOGRAPHY | Introduces darkroom photography as a medium of visual expression. Technical emphasis is placed on fundamental camera controls and introduction to darkroom printing techniques. Aesthetic analysis and theory are discussed. Studio sessions consist of critique, demonstration, lecture, and individual instruction. Darkroom Photography serves as an interdisciplinary requirement within the Art Studio program and as an introduction to creative work and visual argument for non-majors. There are no prerequisites for this course and it meets five hours per week. Prerequisites: None | LAB | 3 | 3 |
| ARTSTDIO | 295 | INTRO GRAPHIC DESIGN | Introduces formal design standards and principles using current industry software applications. Emphasizes critical thinking, creative problem solving, communication strategies, copyright standards, experimentation, and personal expression. Studio sessions include demonstration, lecture, critique, individual instruction, and extended work sessions. Introductory Graphic Design serves as an interdisciplinary requirement for all Art Studio majors, and as an introduction to creative work and visual argument for non-majors. This course earns one GEP toward Goal 1 - Communication, one GEP toward Goal 2 - Information Literacy, and one GEP toward Goal 7 - Arts and Humanities in general education. There are no prerequisites. This course meets five hours per week. Prerequisites: NONE | LAB | 3 | 3 |

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| ARTSTDIO | 296 | TYPE & LOGO DESIGN | Expands the skills and knowledge acquired in Introductory Graphic Design with additional emphasis on typography and logo design. Critical thinking skills, creative problem solving, communication strategy, interpersonal skills, and visual literacy are emphasized using digital applications and typography to create sophisticated graphics such as logo design, page layout and brand identity for Intermediate level students. Formal design standards and theory are emphasized. Studio sessions include demonstration, lecture, critique, individual instruction, and extended work sessions. Typography and Logo Design serves as an intermediate requirement for Art Studio majors concentrating in Graphic Design and an introduction to creative work and visual argument for non-majors. This course earns one GEP toward Goal - Communication, one GEP toward Goal 2 - Information Literacy and one GEP toward Goal 7 - Arts and Humanities in general education. This course meets five hours per week. This course can be repeated one time for credit, if course was originally taken prior to Fall 2019. Prerequisites: ARTSTDIO 295 - Introductory Graphic Design or ARTSTDIO 291 - Introduction to Digital Art. | LAB | 3 | 3 |
| ARTSTDIO | 313 | ADV DRAWING | Examine and practice the language and techniques of drawing and visual communication in general. Refine perceptual strategies and further develop sensitivity to the application of drawing materials. Utilize varied expressive methods of drawing, and analyze images from historical and contemporary art precedents, including non-Western traditions. Develop a body of work that is individual, refined, and specific. Prepare for non-academic conditions in order to continue working after graduation. Further develop professional practices. Studio sessions include extended work with drawing materials, individual instruction and group critique, demonstrations, and lecture. Advanced Drawing serves as a requirement for Art Studio majors concentrating in Drawing. This course meets five hours per week; students are expected to spend at least four - five hours per week on homework. While the studio provides some materials, students are responsible for purchasing supplies for some projects. This course may be repeated for credit. Prerequisites: ARTSTDIO.210 or ARTSTDIO.212. | LAB | 3 | 3 |
| ARTSTDIO | 323 | ADV FABRIC DESIGN | Students generate a new body of work stemming from intensive studio practice. Students develop a professional portfolio, a cohesive body of work in Fabric Design and are required to hold an exhibition of advanced work. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: Students must take at least two 200 level courses in Fabric Design before the Advanced level. | LAB | 3 | 3 |
| ARTSTDIO | 333 | ADVANCED PAINTING | Facilitates individualized painting projects that encourage personal expression. Students begin to develop a professional portfolio. This course may be taken more than once with permission of the instructor. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: ARTSTDIO.232. | LAB | 3 | 3 |
| ARTSTDIO | 343 | ADVANCED SCULPTURE | Nurtures the development of a cohesive body of sculptural work based on sophisticated techniques and a maturing sense of aesthetic direction. This course stresses the importance of drawing, model making, and research to the creative process. Group and individual discussions emphasize the development of critical vocabulary along with advanced technical exploration. This course meets 5 hours per week. Homework assignments require students work 4-5 hours each week outside of class. Students are responsible for purchasing some art materials for the course. This course may be repeated for credit. Prerequisites: ARTSTDIO.242. | LAB | 3 | 3 |

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| ARTSTDIO | 363 | ADVANCED PRINTMAKING | Examine and practice the language and techniques of printmaking and visual communication in general. Refine perceptual strategies and further develop sensitivity to the application of print media. Utilize varied expressive methods of printmaking, and analyze images from historical and contemporary art precedents, including non-Western traditions. Develop a body of work that is individual, refined, and specific. Prepare for non-academic conditions in order to continue working after graduation. Further develop professional practices. Studio sessions include extended independent work, individual instruction and group critique, demonstrations, and lecture. Advanced Printmaking serves as a requirement for Art Studio majors concentrating in Printmaking. This course meets five hours per week; students are expected to spend at least four- five hours per week on homework. While the studio provides some materials, students are responsible for purchasing supplies for some projects. This course may be repeated for credit. Prerequisites: Two courses in Printmaking (ARTSTDIO 263, 264, 265) | LAB | 3 | 3 |
| ARTSTDIO | 376 | SP TOPICS/ART STUDIO | Examines the language and techniques of an Art Studio discipline, and visual communication in general. This course introduces perceptual strategies and fosters the development of sensitivity to the application of materials and art media, encourages the use of varied expressive methods, and requires analysis of images from historical and contemporary art precedents, including non-western traditions. Strategies for locating and developing personal imagery and formal strategies are provided. Studio sessions include extended work on projects, individual instruction and group critique, demonstrations, and lecture. Special Topics in Art Studio serves as an elective for Art Studio majors, and as an introduction to creative work and visual argument for non-majors. This course meets five hours per week. Homework assignments require students work 4-5 hours each week outside of class. Students are responsible for purchasing art materials for the course, the cost of which will vary, depending on Art Studio discipline. Prerequisites: None. This course earns one GEP toward Goal 1 communication and two GEPs toward Goal 7 Arts and Humanities in general education. | LAB | 3 | 3 |
| ARTSTDIO | 383 | ADVANCED PHOTOGRAPHY | Requires students to develop personal photographic projects to produce during the semester. Emphasizes individual exploration of black and white photographic materials and processes. Students must provide a 35 mm camera, film and paper. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: ARTSTDIO.282. | LAB | 3 | 3 |
| ARTSTDIO | 400 | ART STUDIO CAPSTONE | Provides a culminating experience for all Art Studio majors. Students will develop a final project in consultation with their supervising faculty, create an exhibition of their work, and prepare and give a presentation about their artwork. Students will enhance proficiency in professional practices such as portfolio preparation, writing, critical assessment, and career development. Students are responsible for purchasing some materials for projects. Prerequisites: Senior Status as an Art Studio Major or Permission of Instructor. | LAB | 3 | 3 |
| ARTSTDIO | 413 | BFA DRAWING | Provides culminating experience for BFA students concentrating in Drawing. Students will complete a substantial body of artwork based on personal research interests. Individualized instruction and reading assignments will deepen the students' knowledge of the discipline and enhance their engagement with contemporary art theory. Students will meet regularly with the course instructor and participate in individualized and group critiques. This course meets five hours per week. Prerequisites: Four (3) credit drawing courses. | LEC | 3 | 3 |

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| ARTSTDIO | 495 | BFA GRAPHIC DESIGN | Provides culminating experience for BFA students concentrating in Graphic Design. Students will complete a substantial body of artwork based on personal research interests. Individualized instruction and reading assignments will deepen the students' knowledge of the discipline and enhance their engagement with contemporary art theory. Students will meet regularly with the course instructor and participate in individualized and group critiques. This course meets five hours per week. Prerequisites: Four (3) credit Graphic Design courses. | LEC | 3 | 3 |
| ASLTERP | 155 | AMER SIGN LANG 1 | Introduces students to communication in American Sign Language (ASL) as it is used within the American Deaf Community. Involves a study of vocabulary, grammar, fingerspelling, the history of ASL and its recognition as a language. The major focus will be the demonstration of beginning expressive and receptive conversational ASL skills. This course earns one GEP towards Goal 1 Communication and two GEP toward Goal 8 Second Language in general education. Prerequisites: None. Three hours lecture per week. May be offered in traditional or distance education formats. | LEC | 3 | 3 |
| ASLTERP | 225 | LINGUISTICS OF ASL | Introduces ASL structure and organizational properties of ASL as identified through linguistic research, reviews other languages that share similar organizational principles, and discusses the semantic hierarchy and framework for analyzing semantic properties of ASL. Includes an historical overview of social and linguistic events that have influenced transformations in ASL. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: ASLTERP.257. | LEC | 3 | 3 |
| ASLTERP | 226 | AMER SIGN LANG 2 | Builds upon the content of ASL I with emphasis placed on more complex grammatical structures and conversational fluency. Students will demonstrate receptive and expressive skills above the basic level. This course is highly interactive where students' signing skills will be assessed. Prerequisite: ASLTERP 155 (American Sign Language I). | LEC | 3 | 3 |
| ASLTERP | 240 | VISUAL GESTURAL | Emphasizes Visual Gestural Communication with a focus on visual and kinetic readiness via visual/gestural communication techniques, visual discrimination and memory exercises. Topics include Kinetic theory and exercises of the body, face, arms, hands, and their relationship to space, which are an integral part of ASL. Three hours lecture per week. Prerequisites: ASLTERP.226. | LEC | 3 | 3 |
| ASLTERP | 257 | AMER SIGN LANG 3 | Builds upon the content of ASL II incorporating more complex grammatical structures, conversational fluency and conceptual accuracy. Demonstration of receptive and expressive skills to the intermediate level, including seeing multi-signer of diversity with sociolinguistic variation. Acquisition with more depth and longer conversation with sophisticated grammatical features of ASL. Increases amount of numbers and fingerspelling for comprehension. Also more fluency and accuracy of expressive fingerspelling and number too. Prerequisite: ASLTERP 226 (American Sign Language II) | LEC | 3 | 3 |
| ASLTERP | 327 | AMER SIGN LANG 4 | Builds upon the content of ASL III with a focus on more advanced linguistic aspects of American Sign Language and syntheses of all concepts previously learned. Students learn to communicate and carry on a conversation with Deaf people. This course includes ASL vocabulary, grammatical structures and conversational behaviors. Special emphasis will be placed on the cultural values and beliefs shared by the Deaf Community. This class is conducted in ASL only. Prerequisite: ASLTERP 257 (American Sign Language III). | LEC | 3 | 3 |

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| ASLTERP | 358 | ASL 5 | Continues in the development of ASL I-IV in developing a high level of fluency in American Sign Language. Students utilize both expressive and receptive skills in regular weekly communications with persons in the Deaf Community. The students learn idioms and expansion features as well as current events in the Deaf community and all around the world. Prerequisites: ASLTERP.327 ASL IV | LEC | 3 | 3 |
| ASLTERP | 359 | ASLTERP VI | Involves a study of vocabulary, grammar, fingerspelling, based on working in specific settings and with specific Deaf populations. It also includes history of American Sign Language and its recognition as a language. The major focus will be the demonstration of advanced expressive and receptive conversational American Sign Language skills. Prerequisites: ASLTERP.358. | LEC | 3 | 3 |
| ASLTERP | 365 | CONSECUTIVE INTERP | Practices skills where students utilize their translation skills to become fluent in consecutively interpreting discourse from ASL to English and English to ASL with delays of a few seconds after the source utterance is finished. Prerequisite: ASLTERP 335 Translation. | LEC | 3 | 3 |
| ASLTERP | 370 | DEAF-BLIND | Provides interpreting students with an introductory level overview of working with Deaf-Blind people. Students will become familiar with features of the Deaf-Blind community, learn common etiologies of deaf-blindness, learn basic communication and guiding skills for use with Deaf-Blind people, and experience a variety of situations simulating deaf-blindness. Students will also learn about support services and assistive technology for those who are Deaf-Blind. Students will learn interpreting strategies when working with Deaf-Blind Populations based on vision abilities. Prerequisites: ASLTERP.335 and must be taken concurrently with ASLTERP.365 Consecutive Interpreting. Three hours lecture per week. | LEC | 3 | 3 |
| ASLTERP | 375 | ASL LIT | Introduces the students to: American Sign Language literature as recorded on videotape or film and in live performance; art, traditional folklore, storytelling, poetry, drama, oratory, jokes, and nonfiction narrative; analysis of genres in their social and cultural contexts as expressions of Deaf identity and the Deaf experience; how historical and current issues in Deaf culture are represented in literary form. Field experiences may be required for this course. This course earns three GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: ASLTERP.327 and ASLTERP.330. | LEC | 3 | 3 |
| ASLTERP | 460 | PRACTICUM SEMINAR | Discusses various factors of the interpreting profession in order to prepare students for their practicum and working conditions after graduation. Students will also begin their preparation for the national credentialing written examination. Prerequisite: ASLTERP 420 Simultaneous Interpreting. | LEC | 3 | 3 |
| ASLTERP | 480 | PRACTICUM | Provides interpreting students the opportunity to apply knowledge, skills and dispositions gained through an interpreting placement with an experienced, certified interpreter mentor. The certified interpreter mentor will provide feedback and professional guidance to the interpreting student while getting hands on experience interpreting in the field. May be offered in traditional and distance education formats. Prerequisites: ASLTERP.460. | CLN | 3 | 6 |
| BIOLOGY | 100 | CELLS GENE MOLECULE | Presents basic concepts and unifying themes of biological science from the cellular, genetic and molecular levels. Discusses how biological data and ideas affect our lives. Not applicable to majors in biology or health sciences. Prerequisites: None. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Three hours lecture per week. May be offered online or on campus. | LEC | 3 | 3 |

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| BIOLOGY | 101 | HUMAN BIOLOGY | Presents basic concepts and unifying themes of biology relating to humans. This course introduces non-majors to the scientific method, hierarchical organization of the human body, interrelationships between humans and the environment, organ systems, and human health-related issues. Not applicable to majors in biology or health sciences. Prerequisites: None. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Three hours lecture per week. Also offered online. | LEC | 3 | 3 |
| BIOLOGY | 102 | ECOLOGY & EVOLUTION | Presents basic concepts and unifying themes in ecological and evolutionary biology. Scientific and social applications of ecological and evolutionary theory will be stressed. Not applicable to majors in biology or health sciences. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| BIOLOGY | 103 | BIODIVERSITY CONSERV | Presents scientific and societal perspectives of the current global mass extinction and loss of biodiversity. Also, this course introduces the field of conservation biology, a discipline dedicated to conserving all levels of biodiversity for both human and non-human benefit. This course will explore patterns of past and current biodiversity, processes that produce biodiversity and the processes that lead to natural and anthropogenic extinction events. This course is a general education course open to all students and earns two GEPs toward Goal 5 Natural Sciences and one GEP toward Goal 10 Citizenship in general education. Prerequisite: none. Three hours of lecture/discussion per week. Not offered every semester. | LEC | 3 | 3 |
| BIOLOGY | 114 | CONCEPTS BIOLOGY 1 | Provides a framework of key biological concepts and unifying themes. Topics include the nature and process of science, the unity and diversity of living things, the chemical basis of life, cell structure and function, principles of inheritance and animal form and function. Laboratory work emphasizes application of biological principles, experimental design, observation, data collection, analysis and interpretation. Prerequisites: None. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Three hours lecture/three hours laboratory per week. | LAB | 4 | 4 |
| BIOLOGY | 114 | CONCEPTS BIOLOGY 1 | Provides a framework of key biological concepts and unifying themes. Topics include the nature and process of science, the unity and diversity of living things, the chemical basis of life, cell structure and function, principles of inheritance and animal form and function. Laboratory work emphasizes application of biological principles, experimental design, observation, data collection, analysis and interpretation. Prerequisites: None. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Three hours lecture/three hours laboratory per week. | LEC | 4 | 4 |
| BIOLOGY | 115 | CONCEPTS BIOLOGY 2 | Presents key biological concepts in an evolutionary framework. Topics include plant form and function: population, community, and ecosystem ecology; evolution (including population genetics, macroevolution, and human evolution); and an introduction to principles of systematics. Laboratory work emphasizes application of biological principles, experimental design, observation, data collection, analysis, and interpretation as well as written and oral communication skills. This course is the second in a sequence of two introductory core courses for Biology majors. Prerequisite: BIOLOGY 114 (Concepts in Biology 1). Three hours of lecture and three hours of lab per week. | LAB | 4 | 4 |

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| BIOLOGY | 115 | CONCEPTS BIOLOGY 2 | Presents key biological concepts in an evolutionary framework. Topics include plant form and function: population, community, and ecosystem ecology; evolution (including population genetics, macroevolution, and human evolution); and an introduction to principles of systematics. Laboratory work emphasizes application of biological principles, experimental design, observation, data collection, analysis, and interpretation as well as written and oral communication skills. This course is the second in a sequence of two introductory core courses for Biology majors. Prerequisite: BIOLOGY 114 (Concepts in Biology 1). Three hours of lecture and three hours of lab per week. | LEC | 4 | 4 |
| BIOLOGY | 173 | ANATOMY PHYSIOL 1 | Provides an introductory course integrating the structure and function of the human body. This portion covers: fundamental principles of anatomy and physiology, the chemical basis of life, cell structure and function, tissues, integumentary system, skeletal system, muscular system, nervous system, and special senses. This course is a required course for students majoring in Exercise Science, Nursing, Health Science, and Medical Imaging. Three hours of lecture and 3 hours of laboratory per week. | LAB | 4 | 4 |
| BIOLOGY | 173 | ANATOMY PHYSIOL 1 | Provides an introductory course integrating the structure and function of the human body. This portion covers: fundamental principles of anatomy and physiology, the chemical basis of life, cell structure and function, tissues, integumentary system, skeletal system, muscular system, nervous system, and special senses. This course is a required course for students majoring in Exercise Science, Nursing, Health Science, and Medical Imaging. Three hours of lecture and 3 hours of laboratory per week. | LEC | 4 | 4 |
| BIOLOGY | 174 | ANATOMY PHYSIOL 2 | Provides an introductory course integrating the structure and function of the human body. This portion covers: endocrine system, blood and defense mechanisms, cardiovascular system, lymphatic system, respiratory system, digestive system, metabolism, nutrition, urinary system, fluid and electrolyte balance, reproductive system, and growth and development. This course is a required course for majors in Exercise Science, Nursing, Health Science, and Medical Imaging. Three hours of lecture and three hours of laboratory per week. Prerequisite: BIO 173 - Anatomy and Physiology. | LAB | 4 | 4 |
| BIOLOGY | 174 | ANATOMY PHYSIOL 2 | Provides an introductory course integrating the structure and function of the human body. This portion covers: endocrine system, blood and defense mechanisms, cardiovascular system, lymphatic system, respiratory system, digestive system, metabolism, nutrition, urinary system, fluid and electrolyte balance, reproductive system, and growth and development. This course is a required course for majors in Exercise Science, Nursing, Health Science, and Medical Imaging. Three hours of lecture and three hours of laboratory per week. Prerequisite: BIO 173 - Anatomy and Physiology. | LEC | 4 | 4 |
| BIOLOGY | 205 | INTRO TO NUTRITION | Provides a foundation of facts, concepts, and theories in the science of nutrition for all students, regardless of academic major. The nutritional information presented can be applied to personal lives and incorporated into the career of students. Examples include nutritional requirements to assure optimal health and physical performance throughout life and analyzing nutrition information in the media or the marketplace. Three hours of lecture per week. This course earns two GEPs toward Goal 9 Healthy Living in general education. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |

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| BIOLOGY | 208 | MEDICAL TERMINOLOGY | Studies origins, construction and application of medical language used in health professions. The course offers a word building system approach, a vocabulary of medical terms, abbreviations, symbols related to the body systems and interpretation of case studies and medical histories in order to develop effective communicative skills within diverse medical specialties. The course is designed to increase students' familiarity of medical language terms through a review of body systems and broad-based clinical applications. Prerequisites: Biology.173 and major in either Health Sciences or Medical Imaging. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 8 Second Language in general education. | LEC | 3 | 3 |
| BIOLOGY | 233 | HUMAN GENETICS | Provides the student with a basic foundation in human genetics. Fundamental principles of classical and molecular genetics are presented with a focus on their application to human inheritance and human disease. The social and ethical issues raised by progress in medical genetics are evaluated and discussed. This course is for Biology and Allied Health Sciences majors. Prerequisites: one of the following: BIOLOGY 114 and BIOLOGY 115, or BIOLOGY 173. The course meets for three hours lecture/discussion per week.. | LEC | 3 | 3 |
| BIOLOGY | 242 | MICROBIOLOGY | Introduces the fundamental principles of taxonomy, microscopy, cell structure, cultivation, growth, metabolism, and genetics of the microbial world. Microbial interrelationships and control are examined along with the discussion of the role microbes play in the ecosystem, in public health, and in industry. This course is required for Biology and Health sciences majors. Prerequisites: BIOLOGY 114 (Concepts in Biology 1) and CHEM 115 (Chemistry for the Sciences 1); and either BIOLOGY 115 (Concepts in Biology 2) or BIOLOGY 173 (Anatomy and Physiology 1). Three hours of lecture and three hours of laboratory per week. | LAB | 4 | 4 |
| BIOLOGY | 242 | MICROBIOLOGY | Introduces the fundamental principles of taxonomy, microscopy, cell structure, cultivation, growth, metabolism, and genetics of the microbial world. Microbial interrelationships and control are examined along with the discussion of the role microbes play in the ecosystem, in public health, and in industry. This course is required for Biology and Health sciences majors. Prerequisites: BIOLOGY 114 (Concepts in Biology 1) and CHEM 115 (Chemistry for the Sciences 1); and either BIOLOGY 115 (Concepts in Biology 2) or BIOLOGY 173 (Anatomy and Physiology 1). Three hours of lecture and three hours of laboratory per week. | LEC | 4 | 4 |
| BIOLOGY | 271 | CELL BIOLOGY | Examines the structure and function of the cell and its organelles. Emphasis is placed on general principles and processes by which all cells function. This course is a required course for majors in B.S. Biology, B.S. Health Sciences, and certain options in B.A. biology. Three hours lecture/three hours laboratory per week. Prerequisites: BIO 114 (Concepts in Biology 1), CHEM 115 (Chemistry for the Sciences 1), and either BIO 115 (Concepts in Biology 2) or BIO 173 (Anatomy and Physiology 1). | LAB | 4 | 4 |
| BIOLOGY | 271 | CELL BIOLOGY | Examines the structure and function of the cell and its organelles. Emphasis is placed on general principles and processes by which all cells function. This course is a required course for majors in B.S. Biology, B.S. Health Sciences, and certain options in B.A. biology. Three hours lecture/three hours laboratory per week. Prerequisites: BIO 114 (Concepts in Biology 1), CHEM 115 (Chemistry for the Sciences 1), and either BIO 115 (Concepts in Biology 2) or BIO 173 (Anatomy and Physiology 1). | LEC | 4 | 4 |

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| BIOLOGY | 290 | WRITING IN BIOLOGY | Provides experience in written and oral means of communication especially useful to students in a natural science. The course includes communication of information acquired by library research or classroom instruction as well as that acquired experimentally in the laboratory or the field. Finding, analyzing, evaluating, and presenting information from electronic and other sources are integral parts of the course. The course is designed for majors in biology and health sciences, but may also serve other students in the College of Science and Technology who meet the prerequisites. This course is not applicable as a biology elective. Three hours lecture per week. This course earns two GEPs toward Goal 1 Communication and one GEP toward Goal 2 Information Literacy in general education. Prerequisites: ENGLISH.101 and BIOLOGY 115 or ENGLISH.101, BIOLOGY.114 and BIOLOGY 173. | LEC | 3 | 3 |
| BIOLOGY | 301 | HEALTH CARE PRACTICE | Presents an introduction to the background preparation, training, and practical skills required to work in a health care setting. Professionalism in health care, employment preparation, protected health information, patient confidentiality, and health assessment techniques are discussed. This is an undergraduate course for B.S. Health Sciences majors with three hours of lecture/discussion/training per week. Biology 301 is the first course in a two-course sequence, Biology 301 followed by Biology 302 (Health Care Practicum). Prerequisite: Satisfy departmental selection criteria. Not offered every semester. Three hours of lecture/discussion per week. | LEC | 3 | 3 |
| BIOLOGY | 303 | HEALTH SCI SEMINAR | Presents issues, policies, procedures, and considerations in a variety of health science fields. This course introduces students to standard procedures regarding the ethical use, distribution, and communication of protected and confidential information. Students will learn about centralized application procedures and prepare application materials. This is an undergraduate course required for B.S. Health Sciences majors (except MLS option) and serves as a free elective for B.S. Biology Pre-med majors. One hour of lecture/discussion per week. Prerequisites: BS Health Sciences Major or BS Biology Pre-Med Major and completion of 60 credits. | LEC | 1 | 1 |
| BIOLOGY | 332 | GENETICS | Addresses mechanisms of heredity in animals and plants, Mendelian inheritance, linkage, probability, crossing over, chromosomal modifications, nucleic acids, gene action, and genes in populations. The course is an upper-level course for biology majors and is presented in a series of lectures and discussions, of text book and problem assignments, and of laboratory experiments. The course is a core component in some of the biological and allied health degree programs and is an elective in others. Prerequisite: BIOLOGY 271 (Cell Biology). Three hours lecture and two hours of laboratory per week. Laboratory hours will vary. | LAB | 3 | 3 |
| BIOLOGY | 332 | GENETICS | Addresses mechanisms of heredity in animals and plants, Mendelian inheritance, linkage, probability, crossing over, chromosomal modifications, nucleic acids, gene action, and genes in populations. The course is an upper-level course for biology majors and is presented in a series of lectures and discussions, of text book and problem assignments, and of laboratory experiments. The course is a core component in some of the biological and allied health degree programs and is an elective in others. Prerequisite: BIOLOGY 271 (Cell Biology). Three hours lecture and two hours of laboratory per week. Laboratory hours will vary. | LEC | 3 | 3 |
| BIOLOGY | 333 | MOLECULAR BIOLOGY | Introduces the practical and theoretical aspects of molecular biology. The focus will be on the identification and analysis of recurring molecular motifs in the flow and regulation of information in biological systems. This course is for Biology and Allied health Sciences majors. Prerequisites: BIOLOGY 271 (Cell Biology). The course meets for three hours of lecture/discussion per week. | LEC | 3 | 3 |

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| BIOLOGY | 361 | COMP VERT ANATOMY | Surveys form and function of chordate anatomy. Attention given to structure, morphogenesis, functional adaptations, evolutionary history and pattern. Laboratory emphasis is placed on the lamprey, shark and cat. This is an elective for Biology and Allied health Science majors; the course is open to other students meeting the prerequisite. Prerequisite: BIOLOGY 115 (Concepts in Biology 2) or BIOLOGY 174 (Anatomy and Physiology II). Two hours of lecture, 3 hours of laboratory per week. | LAB | 3 | 3 |
| BIOLOGY | 361 | COMP VERT ANATOMY | Surveys form and function of chordate anatomy. Attention given to structure, morphogenesis, functional adaptations, evolutionary history and pattern. Laboratory emphasis is placed on the lamprey, shark and cat. This is an elective for Biology and Allied health Science majors; the course is open to other students meeting the prerequisite. Prerequisite: BIOLOGY 115 (Concepts in Biology 2) or BIOLOGY 174 (Anatomy and Physiology II). Two hours of lecture, 3 hours of laboratory per week. | LEC | 3 | 3 |
| BIOLOGY | 420 | GLOBAL CHANGE BIO | Explores the biological consequences of current environment change including rising atmospheric carbon dioxide concentrations, increased temperature, altered precipitation patterns, increased UV radiation, nitrogen deposition, the spread of exotic species, and land-use changes. Readings will be drawn from primary scientific literature. This course is an upper-level elective course for certain Biology majors. Prerequisite: Biology major with 60 credits. Three hours of lecture/discussion per week. Not offered every semester. | LEC | 3 | 3 |
| BIOLOGY | 442 | VIROLOGY | Examines the common strategies viruses employ to infect diverse hosts as well as the unique characteristics of viral pathogenesis in the human host. Topics will include the origin and nature of viruses, how viruses are classified, the molecular events in the infection and replication of viruses in eukaryotic cells, how viruses cause disease in humans, the host response to virus infection, and the spread and control of viruses infecting humans. Prions and other subviral agents will also be discussed. This is an elective course for Biology and Health Sciences majors. Prerequisites: BIOLOGY 242 (Microbiology) and BIOLOGY 271 (Cell Biology). Three hours lecture and discussion per week. Not offered every semester. | LEC | 3 | 3 |
| BIOLOGY | 470 | MEDICAL PARASITOLOGY | Examines the life cycles and host-parasite relationships of human and animal parasites of medical importance. Laboratory focuses on the morphology and life cycles of parasitic protozoa, helminths, and arthropods. This is an elective for Biology and Health Sciences majors. Two hours lecture and three hours of laboratory/discussion per week. Prerequisites are BIOLOGY 242 (Microbiology) and BIOLOGY 271 (Cell Biology). Not offered every semester. | LAB | 3 | 3 |
| BIOLOGY | 470 | MEDICAL PARASITOLOGY | Examines the life cycles and host-parasite relationships of human and animal parasites of medical importance. Laboratory focuses on the morphology and life cycles of parasitic protozoa, helminths, and arthropods. This is an elective for Biology and Health Sciences majors. Two hours lecture and three hours of laboratory/discussion per week. Prerequisites are BIOLOGY 242 (Microbiology) and BIOLOGY 271 (Cell Biology). Not offered every semester. | LEC | 3 | 3 |
| BIOLOGY | 472 | ANIMAL CELL PHYS | Emphasizes topics such as cell-cell and cell-matrix interactions, membrane transport, protein trafficking, cell signaling and cell cycle. In addition, processes required for cell functions such as cellular energetics and gene expression are covered. Three hours of lecture and/or discussion per week. Prerequisites are BIOLOGY 271 (Cell Biology), and CHEM 230 (Fundamentals of Organic Chemistry) or CHEM 231 (Organic Chemistry I). This is an elective for Biology and Allied Health Science Majors. Not offered every semester. | LEC | 3 | 3 |

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| BIOLOGY | 472 | ANIMAL CELL PHYS | Emphasizes topics such as cell-cell and cell-matrix interactions, membrane transport, protein trafficking, cell signaling and cell cycle. In addition, processes required for cell functions such as cellular energetics and gene expression are covered. Three hours of lecture and/or discussion per week. Prerequisites are BIOLOGY 271 (Cell Biology), and CHEM 230 (Fundamentals of Organic Chemistry) or CHEM 231 (Organic Chemistry I). This is an elective for Biology and Allied Health Science Majors. Not offered every semester. | LEC | 3 | 3 |
| BIOLOGY | 474 | HUMAN PHYSIOLOGY | Studies the major organ systems of the human body at the biochemical, cellular and organ levels; as well as emphasizing how the functions of individual organs systems are integrated with each other to maintain body conditions compatible with life. Systems covered include: endocrine, nervous, cardiovascular, respiratory, muscular and urinary systems. The immune, blood, and reproductive systems are not covered. This is an upper-level core course for Biology and Allied Health Science majors. BIOLOGY 271, or permission of the instructor. Three hours lecture and discussion per week. | LEC | 3 | 3 |
| BIOLOGY | 479 | INTEGRATED PHYS LAB | Provides hands-on investigations of physiological principles across taxonomic groups and all organizational levels. The laboratory investigates evolutionary adaptations to various physical problems and reinforces awareness of the unity of living systems. Emphasis is placed on the application of the scientific method and provides opportunities for independent investigation. This is an upper-level core course for Biology and Health Sciences majors. Prerequisites: BIOLOGY 271 (Cell Biology); and (either as a prerequisite or concurrent) BIOLOGY 472 (Animal Cell Physiology), or BIOLOGY 474 (Human Physiology), or BIOLOGY 477 (Plant Physiology), or BIOLOGY 480 (Comparative Animal Physiology). Three hours laboratory per week, plus additional out of class assignments and/or quizzes. | LAB | 1 | 1 |
| BIOLOGY | 480 | COMP ANIMAL PHYSIOL | Studies the adaptation of animals to their environments. Adaptive mechanisms for marine, freshwater, terrestrial and extreme environments will be examined using a combination of morphological, physiological, biochemical, molecular and evolutionary perspectives. The course will focus on a broad range of invertebrate and vertebrate animals with the goal of understanding the physiological and biochemical strategies they have evolved that allow them to successfully thrive within the uniqueness of each environment. This is an upper level core course for Biology and Health Sciences majors. Prerequisite 271 (Cell Biology). Three hours of lecture and discussion per week. Not offered every semester. | LEC | 3 | 3 |
| BIOLOGY | 489 | CURRENT TOPICS BIO | Critically examines a specialized topic in biology in a lecture/seminar format. Topic varies each semester offered. This is a course for Biology and Health Sciences majors with three hours of lecture/seminar per week. Prerequisite: Junior standing in Biology or Health Sciences. Not offered every semester. | LEC | 3 | 3 |
| BIOLOGY | 520 | GLOBAL CHANGE BIO | Explores the biological consequences of current environment change including rising atmospheric carbon dioxide concentrations, increased temperature, altered precipitation patterns, increased UV radiation, nitrogen deposition, the spread of exotic species, and land-use changes. Readings will be drawn from primary scientific literature. Three hours of lecture/seminar per week. Prerequisite: Graduate Status in Biology. | LEC | 3 | 3 |
| BIOLOGY | 542 | VIROLOGY | Examines the common strategies viruses employ to infect diverse hosts as well as the unique characteristics of viral pathogenesis in the human host. Topics will include the nature of viruses, how viruses are classified, the molecular events in the infection and replication of viruses in eukaryotic cells, how viruses cause disease in humans, the host response to virus infection, and the spread and control of viruses infecting humans. Viruses infecting other organisms, including insects and plants will be examined. Prions and other subviral agents will also be discussed. This is a graduate-level course. Prerequisite: Admission to the M.S. program in biology. Three hours lecture and discussion per week. Not offered every semester. | LEC | 3 | 3 |

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| BIOLOGY | 580 | COMP ANIMAL PHYSIOL | Studies the adaptation of animals to their environments. Adaptive mechanisms for marine, freshwater, terrestrial and extreme environments will be examined using a combination of morphological, physiological, biochemical, molecular and evolutionary perspectives. The course will focus on broad range of invertebrate and vertebrate animals with the goal of understanding the physiological and biochemical strategies they have evolved that allow them to successfully thrive within the uniqueness of each environment. This is a graduate level course for graduate students with an undergraduate degree in the biological/life sciences. Prerequisite: Admission to the M.S. program in biology. Three hours of lecture and discussion per week. Not offered every semester. | LEC | 3 | 3 |
| BIOLOGY | 589 | CURRENT TOPICS BIO | Critically examines a specialized topic in biology in a lecture/seminar format. Topic varies each semester offered. This is a graduate level course with three hours of lecture/seminar per week. Not offered every semester. Prerequisite: Admission to the M.S. program in biology. | LEC | 3 | 3 |
| BIOLOGY | 593 | MASTER OF SCI THESIS | Research and independent preparation of a formal thesis in partial fulfillment of the requirements for the Thesis Option within the Master of Science degree in Biology. May be enrolled in successive semesters for varying amount of credit, but no more than 6 credit hours applied toward satisfying the requirements for the Master of Science degree (Thesis Option) in Biology. Prerequisite: Admission to Candidacy for the Master of Science in Biology. | THE | 1 | 9 |
| BUSED | 101 | INTRO TO BUSINESS | Studies business and its environment, organization, operation, and the interrelationships with government and society. Business majors develop a broad base for further study in a specific area in business, while other majors will become familiar with the American enterprise system and issues facing business in today's global environment. May be offered in traditional and distance education formats. This course earns three GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| BUSED | 333 | BUS COMM & RPT WRTG | Applies theories and principles of effective communication to solve common business problems. Psychological and organizational strategies will be used in the writing of business reports and other documents. This course is a required general education course for all Zeigler College of Business majors and cannot be used as a business elective except for non-Zeigler College of Business majors. Three hours lecture per week. Prerequisites: 45 credit and ENGLISH.101. This course earns two GEPs toward Goal 1 Communication and one GEP toward Goal 2 Information Literacy in general education. | LEC | 3 | 3 |
| BUSED | 404 | PROF SEMESTER BCIT | Includes orientation experiences to observe the operation of a school and specific classes as well as 16 weeks of participatory teaching experiences correlated with classroom studies under full-time supervision. Prerequisites: Admission to Teacher Education and successful completion of BUSED.402 and BUSED.403. Schedule concurrently with BUSED.406. | FLD | 12 | 12 |
| BUSED | 406 | CLIN STUDY IN BCIT | Presents seminars on principles of education for business, computer and information technology teachers, instructional strategies for teaching business subjects, assessments and problems of classroom teaching. Classroom discussions closely correlated with the experiences of BUSED.404 and the four domains of the conceptual framework for professional practice. Prerequisites: Admission to Teacher Education and successful completion of BUSED.402 and BUSED.403. Schedule concurrently with BUSED.404. | LEC | 3 | 3 |

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| BUSED | 504 | PROF SEM IN BCIT | Provides opportunities for students to observe the operation of the secondary school environment and specific diverse classes as well as 16-weeks of participatory teaching experiences. This course is correlated with classroom studies under fulltime supervision. Prerequisites: Graduate standing AND admission into Teacher Education Certification in Business Computer Information Technology (BCIT). Taken concurrently with BUSED 506, Clinical Studies in BCIT. | FLD | 9 | 9 |
| BUSED | 506 | CLIN STUDY IN BCIT | Presents seminars on topics related to the teaching profession and instructional strategies and assessment techniques for teaching business subjects to diverse student populations. Seminar topics and discussions are closely correlated with the experiences of the Professional Semester in Business, Computer and Information Technology (BUSED 504). Prerequisites: Graduate standing and Admission into Teacher Education Certification in Business Technology (BCIT). | LEC | 3 | 3 |
| BUSED | 521 | BUSINESS RESEARCH | Introduces students to research in business fields, with a focus on business education, including Accounting, Business Law, Career Development, Communication, Economics, Personal Finance, Entrepreneurship, Information Technology, International Business, Management and Marketing, or any other competency under the business education umbrella. Tying to the National Standards for Business Education, students will research a particular field and develop a research proposal and research report that includes a purpose, literature review, delimitations, ethical considerations, method, limitations, key findings, discussion, conclusion, reference list and appendices as needed. This course will also enhance communication skills, including teamwork, interpersonal, writing, and presentation skills. This course is required for the M. Ed. in Business Education. It can also be an elective for other master degrees. May be offered in traditional and distance education formats. Prerequisites: Graduate standing or a minimum of 90 credits undergraduate courses and Graduate Dean Approval. | LEC | 3 | 3 |
| BUSED | 534 | CLASS STRAT DEVE BCIT | Prepares students enrolled in the Internship track for teaching in business education classroom following guidelines prescribed the Pennsylvania Department of Education for the Internship track. Coursework presents competencies in the key areas of teaching. Topics presented include planning, appropriate learning environment, instruction techniques, and professional responsibilities. Prerequisites: Enrollment in M.Ed in Business Education Internship Track | LEC | 3 | 3 |
| BUSED | 535 | ADV CLASS STRAT DEV | Advances on topics presented in BUSED 534 and continuing to professionally-develop students for teaching in business education classroom following guidelines prescribed in the Pennsylvania Department of Education for the Internship track. Coursework focuses on advanced competencies in the key areas of teaching and assessment. Topics presented include unit planning, classroom maintenance, implementing higher-ordering thinking skills, and continued professional development as a business teacher. Prerequisites: Enrollment in M.Ed in Business Education Internship Track and completion of BUSED 534. | LEC | 3 | 3 |
| CHEM | 101 | INTRO CHEMISTRY | Presents an introduction to chemistry for students with little or no previous chemical background. Develops the principles of chemistry from the ground level with an approach to meet the needs of students for general education and allied health emphasis including nursing. This course is not intended to be a beginning course for science majors. Prerequisites: None. This course earns one GEP toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 5 Natural Sciences in general education. Three Hours Lecture Per week. | LEC | 3 | 3 |

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| CHEM | 108 | PHYSIOLOGICAL CHEM | Surveys the essentials of organic chemistry and biochemistry with emphasis on the role of chemistry in human health. Includes bonding, structure, basic nomenclature, properties and reactions of organic functional groups and, structure, properties, and role of biomolecules. 3 hours lecture and 2 hours laboratory per week. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: CHEM.101 or CHEM.115. | LAB | 4 | 4 |
| CHEM | 108 | PHYSIOLOGICAL CHEM | Surveys the essentials of organic chemistry and biochemistry with emphasis on the role of chemistry in human health. Includes bonding, structure, basic nomenclature, properties and reactions of organic functional groups and, structure, properties, and role of biomolecules. 3 hours lecture and 2 hours laboratory per week. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: CHEM.101 or CHEM.115. | LEC | 4 | 4 |
| CHEM | 115 | CHEM FOR SCIENCES 1 | Introduces and develops qualitative and quantitative concepts in chemistry essential for further study in chemistry and application to other science disciplines. Topics include the elements' atomic and periodic properties, chemical compound types and properties, chemical reaction types, chemical stoichiometry, molecular geometry determination and relation to properties, physical properties of states of matter, qualitative acid-base behavior, and inter-particle forces. Three hours per week class plus three hours per week laboratory. First course in chemistry for all physical and biological science majors. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: ALEKS score of 61 or MATH 109 or MATH 116. High school chemistry highly recommended. | LAB | 4 | 4 |
| CHEM | 115 | CHEM FOR SCIENCES 1 | Introduces and develops qualitative and quantitative concepts in chemistry essential for further study in chemistry and application to other science disciplines. Topics include the elements' atomic and periodic properties, chemical compound types and properties, chemical reaction types, chemical stoichiometry, molecular geometry determination and relation to properties, physical properties of states of matter, qualitative acid-base behavior, and inter-particle forces. Three hours per week class plus three hours per week laboratory. First course in chemistry for all physical and biological science majors. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: ALEKS score of 61 or MATH 109 or MATH 116. High school chemistry highly recommended. | LEC | 4 | 4 |
| CHEM | 116 | CHEM FOR SCIENCES 2 | Develops qualitative and quantitative concepts in chemistry essential for further study in higher level chemistry and application to other science disciplines. Topics include the colligative properties of solutions, chemical kinetics, equilibrium and acid-base behavior, thermochemistry and thermodynamics, and electrochemistry. Second course in chemistry for all physical and biological science majors. This course earns two GEPs toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 5 Natural Sciences in general education. Three hours per week class plus three hours per week laboratory. Prerequisites: Grade of C or better in CHEM.115. | LAB | 4 | 4 |
| CHEM | 116 | CHEM FOR SCIENCES 2 | Develops qualitative and quantitative concepts in chemistry essential for further study in higher level chemistry and application to other science disciplines. Topics include the colligative properties of solutions, chemical kinetics, equilibrium and acid-base behavior, thermochemistry and thermodynamics, and electrochemistry. Second course in chemistry for all physical and biological science majors. This course earns two GEPs toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 5 Natural Sciences in general education. Three hours per week class plus three hours per week laboratory. Prerequisites: Grade of C or better in CHEM.115. | LEC | 4 | 4 |

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| CHEM | 231 | ORGANIC CHEMISTRY 1 | Emphasizes structure and bonding, stereochemistry, nomenclature, physical and chemical properties and modern spectroscopy of alkanes, haloalkanes, alcohols and ethers. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and four hours of lab per week. Prerequisite: CHEM.116. | LAB | 4 | 4 |
| CHEM | 231 | ORGANIC CHEMISTRY 1 | Emphasizes structure and bonding, stereochemistry, nomenclature, physical and chemical properties and modern spectroscopy of alkanes, haloalkanes, alcohols and ethers. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and four hours of lab per week. Prerequisite: CHEM.116. | LEC | 4 | 4 |
| CHEM | 232 | ORGANIC CHEMISTRY 2 | A continuation of organic topics, building on those covered in CHEM.231. Spectroscopy and the applications toward structure determination are introduced. Emphasizes reaction mechanisms, stereochemistry, syntheses and analyses of representative compounds. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and four hours of lab per week. Prerequisite: CHEM.231. | LAB | 4 | 4 |
| CHEM | 232 | ORGANIC CHEMISTRY 2 | A continuation of organic topics, building on those covered in CHEM.231. Spectroscopy and the applications toward structure determination are introduced. Emphasizes reaction mechanisms, stereochemistry, syntheses and analyses of representative compounds. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and four hours of lab per week. Prerequisite: CHEM.231. | LEC | 4 | 4 |
| CHEM | 251 | INORGANIC CHEMISTRY | Explores theories and principles of inorganic chemistry: basis coordination chemistry, solid structures, periodic properties, descriptive chemistry of selected elements; computational applications to inorganic chemistry. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture per week. Prerequisite: CHEM.116 and CHEM.230 or CHEM.231. | LEC | 3 | 3 |
| CHEM | 281 | INTRO CHEMICAL LIT | Applies current technologies to find, evaluate, and ethically use chemical and scientific information. The course is intended for students who will become practicing chemist, or who will use chemistry in related fields of science and medicine. One hour of lecture per week plus mandatory chemistry seminar attendance. This course earns one GEP toward Goal 2 Information Literacy in general education. Prerequisite: CHEM.231. | LEC | 1 | 1 |
| CHEM | 341 | BIOCHEMISTRY 1 | Emphasizes the structure, reactivity, and metabolic reactions of the naturally occurring biomolecules. Introduces the biochemical techniques encountered by the modern biochemist. Three hours of lecture and 4 hours of laboratory per week. This course earns one GEP toward Goal 1 Communication in general education. Prerequisites: CHEM.116 and either CHEM.230 or CHEM.232. | LAB | 4 | 4 |
| CHEM | 341 | BIOCHEMISTRY 1 | Emphasizes the structure, reactivity, and metabolic reactions of the naturally occurring biomolecules. Introduces the biochemical techniques encountered by the modern biochemist. Three hours of lecture and 4 hours of laboratory per week. This course earns one GEP toward Goal 1 Communication in general education. Prerequisites: CHEM.116 and either CHEM.230 or CHEM.232. | LEC | 4 | 4 |
| CHEM | 362 | PHYSICAL CHEMISTRY 2 | Continuation of CHEM.361; X-ray crystallography, quantum mechanics, spectroscopy, and statistical mechanics. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and 4 hours of laboratory per week. Prerequisite: CHEM.361. | LAB | 4 | 4 |

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| CHEM | 362 | PHYSICAL CHEMISTRY 2 | Continuation of CHEM.361; X-ray crystallography, quantum mechanics, spectroscopy, and statistical mechanics. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and 4 hours of laboratory per week. Prerequisite: CHEM.361. | LEC | 4 | 4 |
| CHEM | 442 | BIOCHEMISTRY 2 | Continuation of CHEM.341; amino acid metabolism, photosynthesis, nucleotide metabolism, replication, transcription, translation, control of gene expression, molecular physiology. Laboratory to emphasize enzyme isolation and molecular biology techniques. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and 3 hours of laboratory per week. Prerequisites: CHEM.341 or equivalent or consent of the instructor. Graduate credit in biology program. | LAB | 4 | 4 |
| CHEM | 442 | BIOCHEMISTRY 2 | Continuation of CHEM.341; amino acid metabolism, photosynthesis, nucleotide metabolism, replication, transcription, translation, control of gene expression, molecular physiology. Laboratory to emphasize enzyme isolation and molecular biology techniques. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and 3 hours of laboratory per week. Prerequisites: CHEM.341 or equivalent or consent of the instructor. Graduate credit in biology program. | LEC | 4 | 4 |
| CHEM | 442 | BIOCHEMISTRY 2 | Continuation of CHEM.341; amino acid metabolism, photosynthesis, nucleotide metabolism, replication, transcription, translation, control of gene expression, molecular physiology. Laboratory to emphasize enzyme isolation and molecular biology techniques. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and 3 hours of laboratory per week. Prerequisites: CHEM.341 or equivalent or consent of the instructor. Graduate credit in biology program. | LAB | 4 | 4 |
| CHEM | 442 | BIOCHEMISTRY 2 | Continuation of CHEM.341; amino acid metabolism, photosynthesis, nucleotide metabolism, replication, transcription, translation, control of gene expression, molecular physiology. Laboratory to emphasize enzyme isolation and molecular biology techniques. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture and 3 hours of laboratory per week. Prerequisites: CHEM.341 or equivalent or consent of the instructor. Graduate credit in biology program. | LEC | 4 | 4 |
| CHINESE | 102 | CHINESE 2 | Develops further the four language skills: speaking, listening, reading, and writing to a proficiency level regarded as basic communication in Chinese. CHINESE.102 is for students who wish to continue studying Chinese at the second level. Chinese language study is taught in its cultural context, including history, culture, diversity, and comparison with students' native culture. Practice in language laboratory and/or use of electronic language-learning media is required. CHINESE.102 is offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 8 Second Language in general education. Three hours lecture per week. Prerequisite: CHINESE.101 or equivalent proficiency level. This course is generally appropriate for students with one or two years of high-school Chinese. | LEC | 3 | 3 |
| CHINESE | 203 | CHINESE 3 | Develops communication skills in speaking, listening, reading, and writing in cultural context to the intermediate-mid level of proficiency upon the conclusion of the course. Course content is presented in communicative, culturally contextualized activities. Offered once a year. Intended for students who have completed CHINESE 102 or equivalent. CHINESE 203 is a required course for the Chinese Major and Minor, but is open to all students. Course carries 2 GEPs toward General Education Goal 1 - Communication. | LEC | 3 | 3 |

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| CLE | 101 | LEADERSHIP CERT | Offers an intensive series of educational leadership-based workshops, lectures, service projects, conferences, and integrative learning opportunities. The mission of the Center for Leadership & Engagement is to facilitate and provide intentional opportunities by supporting and providing resources for student growth, development, involvement and learning through leadership education, engagement, and service. By participating in the Leadership Certification program, students will gain knowledge of core leadership skill sets, enhance their co-curricular learning experiences and build meaningful and sustainable relationships to positively impact a diverse campus community and beyond. As such, students will become aware of and engage in student leadership practices that foster and sustain a culture of organizational effectiveness, community engagement, and social justice. This course earns one GEP toward Goal 10 Citizenship in general education. Prerequisites: Must submit Leadership Certification Application in the Center for Leadership & Engagement and meet with a staff member to review the program. This is open to all students with permission granted from the Center for Leadership & Engagement. | ACT | 0 | 0 |
| CLE | 111 | VAR ATHL | Provides the opportunity for students to participate fully as a member of one (or more) of the Bloomsburg University varsity athletics teams. Develops overall fitness, communication skills on- and off-the-field, teamwork strategies, and knowledge of healthy living for life. Grading basis is pass/fail, and CLE is repeatable. This course earns one GEP toward Goal 9 Healthy Living in general education. Prerequisites: None. | ACT | 0 | 0 |
| CLE | 211 | FIRST RESPONDER | Explores the benefit to the community and to the student of being an active first responder in their community. Examples of first responders for which this course may be appropriate are firefighter, fire police, police, constable, emergency medical technician, National Guard service members and so forth. This co-curricular learning experience requires at least 40 hours of service calls, including time in documentation. This co-curricular learning experience is repeatable. Prerequisite: Active service as a first responder and permission of instructor. | ACT | 0 | 0 |
| CLE | 280 | BUWC PRACTICUM | Introduces students interested in working as Writing Consultants in the Bloomsburg University Writing Center (BUWC) to writing center theory and practice, writing in the disciplines, issues of language diversity, writing processes, conventions, and expectations. In addition to meeting one hour each week, prospective consultants will observe no fewer than 2.5 hours each week in the BUWC. Required for new Writing Consultants. Prerequisites: Permission of the BU Writing Center (BUWC) Director. For students who have been selected to become BUWC Writing Consultants only. This course earns one GEP toward Goal 1 Communication in general education. | ACT | 0 | 0 |

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| CLE | 300 | PROGRAM LEADERS | Offers a creative learning environment for personal and professional success beyond the classroom. Encourages leadership development with a focus on student organizational leadership, community engagement leadership, social justice leadership, wellness education leadership, and group leadership. In addition increases in student engagement with the University and community through service projects, conferences, and integrative learning opportunities. By participating in the Student Program Leaders experience, students will gain leadership skill sets, enhance their co-curricular learning experiences, and build meaningful and sustainable relationships to positively impact a diverse campus community and beyond. As such, students will become aware of and engage in student leadership practices that foster and sustain a culture of organizational effectiveness, community engagement, and social justice. This will be offered in the spring. This CLE is repeatable by completing two separate programs. This course earns one GEP toward Goal 10 Citizenship in general education. Prerequisites: Must be approved by supervisor in Student Affairs and the student must be in a Student Program Leadership position for: Quest Instructors and Course Coordinators Leaders, Peer Awareness with Students (PAWS) Mentors, Student Athlete Advisory Committee, Community Government Association Executive Board, Orientation Workshop Leaders, Greek Governing Councils, Program Board Leaders, Club Sport Presidents, Multicultural Mentors, Presidential Leadership Program Officers, Office of the Dean of Students Mentor Programs, and Student Activities Event Committee Chairs. | ACT | 0 | 0 |
| CLE | 301 | CGA PRESIDENT | Provides the Community Government Association (CGA) President, the elected leader of the student body at Bloomsburg University, the opportunity to learn more regarding communication and citizenship by representing Bloomsburg University at Trustee meetings, PASSHE meetings and Town of Bloomsburg government meetings. The CGA President is an officer of Honeysuckle Student Holdings, Inc., the Kehr Union Governing Board and the Student Recreation Center Governing Board. The CGA President has fiscal responsibility for the operating budget of CGA, Inc. CGA President serves for a term of one academic year and will receive General Education points once. Prerequisites: Elected as CGA President. This course earns one GEP toward Goal 1 Communication and one GEP toward Goal 10 Citizenship in general education. | ACT | 0 | 0 |
| CLE | 380 | BUWC SPECIAL TOPIC | Explores theories, research methods, and practices of writing center work related to a particular topic beyond the introductory treatment offered in BU Writing Center Practicum. Writing Consultants read, explore, and meet for one hour each week to discuss the semester topic and aspects of their work in the BUWC. Topics may include the following: technology in writing center consulting, discipline-specific writing practices, writing center resources, writing center scholarship. Repeatable for MyCore GEPs. Required for those currently employed as a BU Writing Center (BUWC) Consultants. Prerequisites: Permission of the BU Writing Center (BUWC) Director. For current BUWC Writing Consultants. This course earns one GEP toward Goal 1 Communication in general education. | ACT | 0 | 0 |
| COMMSTUD | 103 | PUBLIC SPEAKING | Introduces students to the verbal, nonverbal, and organizational skills necessary for giving effective public presentations. Students will learn the theory and principles of effective public speaking and practice these principles by performing and analyzing speeches. Students will complete at least three major speaking assignments. This course earns three GEPs toward Goal 1 Communication in general education. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |

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| COMMSTUD | 104 | INTERPERSONAL COMMUN | Introduces students to the process of interpersonal communication. Students will explore the role of conversations and relationships to enhance their participation in daily interactions and their critical awareness of the process. Topics will includes the interconnections between identity and communication, language, nonverbal communication, listening, and communication dynamics within relationships. This skills-based course typically includes lecture, discussion, and in-class or distance education. The course is open to all students.. This course earns three GEPs toward Goal 1 Communication in general education. Three hours lecture per week. Prerequisite: None. | LEC | 3 | 3 |
| COMMSTUD | 106 | SM GROUP COMM | Examines communication principles and practices for successfully leading and participating in small groups. Particular emphasis is placed on communication skills involved in navigating group relationships and group decision making processes. This course is open to all students. This course earns one GEP toward Goal 1 Communication, one GEP toward Goal 3 Analytical and Quantitative Skills and one GEP toward Goal 10 Citizenship in general education. Prerequisite: None. Three hours lecture per week. | LEC | 3 | 3 |
| COMMSTUD | 151 | STRESS MGMT & COPING | Introduces students to a nuanced understanding of stress from a communication perspective and a range of communication-based strategies for managing and coping with stressful experiences. Throughout this course, students will engage with communication-centered theories of stress and coping to learn the facets of "stress" such as definitions of stress, the different categories of stressors, and the common contexts in which college-aged students experience stress. Additionally, students will learn coping strategies for stress management, with special emphasis placed on coping strategies involving communication with others. The course may be offered face-to-face or via distance education, is open to all undergraduate students, and is designed to be delivered in half a semester. No prerequisites. | LEC | 1 | 1 |
| COMMSTUD | 157 | INTRO GAME STUDIES | Provides an overview of the interdisciplinary field of Game Studies, emphasizing relationships between its key theories and concepts, the video game industry, and the influence of video games in public culture. The course may be offered face-to-face or via distance education, is open to all undergraduate students, and is designed to be delivered in half a semester. Prerequisites: None. | LEC | 1 | 1 |
| COMMSTUD | 157 | INTRO GAME STUDIES | Provides an overview of the interdisciplinary field of Game Studies, emphasizing relationships between its key theories and concepts, the video game industry, and the influence of video games in public culture. The course may be offered face-to-face or via distance education, is open to all undergraduate students, and is designed to be delivered in half a semester. Prerequisites: None. | LEC | 1 | 1 |
| COMMSTUD | 207 | COMM RES METHODS | Introduces students to the empirical research process in the field of Communication Studies. Students will learn the basics of empirical research including the planning of studies, quantitative designs, qualitative designs, nonparametric/parametric data analysis, interpretation of results, and scientific measurement of variables. This writing intensive course also introduces students to the process involved in conducting background research and reporting on empirical research. This course will be offered at least once per year. Three hours lecture per week. Prerequisites: COMMSTUD.103 or COMMSTUD.104 or permission of instructor. | LEC | 3 | 3 |
| COMMSTUD | 209 | RHETORICAL CRITICISM | Introduces students to the art of communication analysis and to a variety of critical approaches which help students negotiate their way through a world of messages that compete for attention, influence beliefs and decisions, promote social change, and craft cultural identities. This course is primarily designed for Communication Studies students as a required course for the major, but is open to other students with an interest in critical analysis of communication. Successful completion of ENGLISH 101 is recommended prior to enrolling in this writing-intensive course. Prerequisites: NONE | LEC | 3 | 3 |

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| COMMSTUD | 215 | COMMUNICATION THEORY | Introduces foundational ideas related to theory and surveys theories of Communication Studies, both general theories and those specific to particular contexts such as interpersonal communication, rhetorical theory, organizational communication theory, and culture and communication. A wide range of readings reflects the multidisciplinary nature of contemporary Communication Studies. This is a survey course for all students in the major and any student interested in learning more about theory within the field of Communication Studies. Prerequisites: None. | LEC | 3 | 3 |
| COMMSTUD | 220 | INTERCULTURAL COMMUN | Explores communication in cultural contexts. Students will be exposed to general principles for communication across cultures, both international and domestic, with the goal of becoming competent communicators. In addition to dealing with "international" contacts such as exchange programs and orientation to travel abroad, and/or study abroad, the course will explore "co-cultural" variations--that is, similarities and differences of individuals within the United States, and cultural differences and similarities transnationally in race, gender, sexual orientation, age, and condition of disability. This course is open to all students and is offered at least once per year. May be offered in traditional and distance education formats. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisite: None. Three hours lecture per week. | LEC | 3 | 3 |
| COMMSTUD | 307 | COMM BUSINESS PROFS | Designed to survey and strengthen necessary written and oral communication skills for entry-level managers, employees, and communication professionals in business and professional settings. It emphasizes important skills from three basic communication areas: interpersonal and organizational, interviewing and group, and public. Three hours lecture per week. Prerequisites: COMMSTUD.104 Interpersonal Communication, or by permission of instructor. | LEC | 3 | 3 |
| COMMSTUD | 309 | GENDER ISSUES COMM | Presents a broad range of theories concerning the nature of differences in communication behavior among different genders and the presumed origins of such differences. It also explores a variety of topics in gender and communication including verbal and nonverbal communication; family and relationships; the workplace and the media; feminism and other social movements; and domestic and sexual violence. The primary focus is on U.S. society, but some historical and cross-cultural contrasts will also be explored. The course is designed for students in Communication Studies and the Gender Studies Minor and other students interested in issues related to gender. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisite: COMMSTUD.104: Interpersonal Communication; or by permission of instructor. Three hours lecture per week. | LEC | 3 | 3 |
| COMMSTUD | 313 | CONFLICT MGMT & RES | Analyzes the role of communication in the generation, process, and management of destructive and constructive conflict on interpersonal, small group, organizational, and societal levels. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisites: COMMSTUD.104 or by permission of instructor. | LEC | 3 | 3 |

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| COMMSTUD | 314 | COMMUNICATING IDENTITY | Focuses on the role of communication in the construction of cultural identities. The course addresses processes by which individual identities are formed, maintained, and executed during interpersonal interactions. Class content explores communicative factors that impact identity development, maintenance, and negotiation as a means to make sense of social, cultural, and interpersonal structures of relating within the United States. Primary goals of the course include understanding the social construction of difference as well as social justice strategies for bridging the gap in identity differences to improve interpersonal functioning. The course is open to Communication Studies majors/minors, Ethnic Studies minors, and others by permission of instructor. This course earns 1 GEP in Goal 1 - Communication and 2 GEP's in Goal 4 - Cultures and Diversity. Course is offered at least once a year. Prerequisite: COMMSTUD.104 - Interpersonal Communication | LEC | 3 | 3 |
| COMMSTUD | 315 | PERSUASION | Examines the way people influence others. It provides practice in crafting, presenting and evaluating persuasive messages. This course is designed for Communication Studies major/minors, Professional Communication minors, Health Communication minors, and other students interested in the process of persuasion. Prerequisites: COMMSTUD.103 - Public Speaking or by permission of instructor. | LEC | 3 | 3 |
| COMMSTUD | 321 | ARGUMENT & ANALYSIS | Focuses on the techniques of reason-giving in communicative situations, analyzing controversial issues, the validity of claims and evidence, the detection of fallacies, and the ability to communicate a point of view and refute the contentions of others. This course is designed for Communication Studies students and other students interested in argumentation and analysis. Prerequisites: COMMSTUD.103 Public Speaking or by permission of instructor. | LEC | 3 | 3 |
| COMMSTUD | 407 | INTERVIEWING | Allows students to explore the interview as a specific communication event, with its own rules, procedures and strategies. It acquaints students with a variety of interview contexts, such as selection, performance appraisal, informational, helping, sales, and health care, by blending current theory and research with practical skills and applications. In this applied course students will prepare and conduct interviews, and receive feedback on their oral and written performances. The course is primarily designed for Communication Studies majors/minors and Professional Communication minors. Three hours lecture per week. Prerequisites: Completion of either COMMSTUD.205 Understanding Social Influence or COMMSTUD 210 Organizational Communication Theory or COMMSTUD.215 Communication Theory, and completion of all core courses (COMMSTUD.103, COMMSTUD.104, COMMSTUD 106, COMMSTUD.207, COMMSTUD.209, COMMSTUD.220), or by permission of instructor. Majors must earn a minimum grade of C in COMMSTUD.207 and COMMSTUD.209 to take 400 level courses. | LEC | 3 | 3 |
| COMMSTUD | 417 | NEW MEDIA AND VIS CULTURE | Evaluates communication in a variety of mediated contexts by learning theoretical concepts from media studies, visual rhetorical theory, and critical cultural studies and applying them to real-world examples. This course will be offered at least once per year. Prerequisites: Completion of COMMSTUD 205 - Understanding Social Influence, or COMMSTUD 210 - Organizational Communication Theory, or COMMSTUD 215 - Communication Theory and completion of all core courses (COMMSTUD 103, 104, 106, 207, 209 and 220) or by permission of instructor. Majors must earn a minimum grade of C in COMMSTUD 207 and COMMSTUD 209 to take 400 level courses. | LEC | 3 | 3 |

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| COMMSTUD | 421 | CRISIS COMMUNICATION | Explores communication practices associated with preventing and managing organizational crises, and post-crisis organizational learning. Through close consideration of crisis communication research and case studies, this course will help students define the causes of organizational crises stemming from communication in face-to-face, Internet, social media and other environments. The course examines and applies theories of crisis communication and explores ways to manage organizational crises and ways to prevent them through proven communication practices. | LEC | 3 | 3 |
| COMMSTUD | 429 | EVENT PLANNING | Explores the role of communication in setting the stage for successful events. Event Planning provides an introduction to the research, planning, promotion, implementation, and evaluation that is encompasses in hosting a variety of special events such as corporate branded events, non-profit fundraisers, association conferences, society events such as community festivals, political campaigns, activist rallies and cradle-to-grave social events. | LEC | 3 | 3 |
| COMMSTUD | 433 | PATIENT-PROV COMM | Explores issues relevant to effective patient-provider communication in a variety of healthcare settings. Course topics include characteristics of patients and providers and cultural/identity issues that influence interactions between patients and healthcare providers, as well as the influence of organizational structures and mediated communication on patient-provider communication. This course is primarily designed for Communication Studies majors and minors and other students with an interest in health communication. The course may be offered in traditional or distance education format. Prerequisites: COMMSTUD 205, or COMMSTUD 210 or COMMSTUD 215 and all core courses (COMMSTUD 103, 104, 106, 207, 209 & 220), or by permission of instructor. Communication Studies Majors and Minors must earn a minimum grade of C in COMMSTUD 207 and COMMSTUD 209 to take 400 level courses. | LEC | 3 | 3 |
| COMPSCI | 115 | PYTHON PROGRAMMING | Introduces the Python programming language. Students will use Python to perform numerical and text-oriented calculations, write data-manipulation programs, and script computer operations. Hands-on activities include writing and running console-mode programs, inspecting data files, and graphing of data. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| COMPSCI | 121 | OBJ-ORIEN PROG JAVA | This course introduces students to object-oriented programming ideas and techniques using the Java programming language. Topics include: classes, objects, fundamental data types, control structures, class design, testing, debugging, and Java documentation. Students develop moderate length programs following the design guidelines presented in the course. Four hours of lecture per week. | LEC | 4 | 4 |
| COMPSCI | 122 | GRAPH INTERFACE JAVA | This course continues the study of object-oriented ideas and techniques using the Java language. Topics include arrays, interfaces and polymorphism, event handling, inheritance, graphical user interfaces, exceptions, and files and streams. Four hours of lecture per week. Prerequisite: COMPSCI.121. | LEC | 4 | 4 |
| COMPSCI | 215 | ADVANCED PYTHON | Covers advanced programming topics in the Python programming language. Students will use object-oriented techniques to develop multithreaded and multiprocessing applications, GUI-oriented applications, and networked applications. Use of regular expressions in Python is also covered. This course is intended for all students interested in computer programming. Three hours lecture per week. Prerequisite: COMPSCI.115. | LEC | 3 | 3 |
| COMPSCI | 255 | DATA STRUCTURE C++ | This course focuses on the specification, design and implementation of linear data structures such as Arrays, Linked Lists, Stacks, Queues and hash tables. Students will use C++ language features for implementing solutions using these data structures. Students will also be introduced to the C++ Standard Template Library, recursion and exception handling. Three hours of lecture per week. Prerequisite: COMPSCI.240. | LEC | 4 | 4 |

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| COMPSCI | 330 | COMP ORGANIZATION | This course surveys the organization of computer elements at the circuit level. Topics include Boolean algebra; digital logic, processor instruction sets, and Finite State Machine representations of algorithmic processes. Three hours of lecture per week. Prerequisite: COMPSCI.240. | LEC | 3 | 3 |
| COMPSCI | 357 | DATABASE DESIGN | This course provides a comprehensive understanding of the key concepts and terminology in the theory and design of relational databases. Students learn to create Entity Relationship Diagrams (ERD), normalize database tables, and use Structured Query Language (SQL) and PL/SQL programming to create database structures, access and manipulate data. Three hours of lecture per week. Prerequisite: Any COMPSCI course numbered at or above COMPSCI.115 or WDD 170 | LEC | 3 | 3 |
| COMPSCI | 386 | OPERATING SYSTEMS | A study of the foundations of modern operating systems along with the concurrent programming problems associated with these systems. Students will write and test their own solutions to some of these problems. Problems encountered in the development of all modern systems will be covered along with possible solutions. Three hours of lecture per week. Prerequisite: COMPSCI.221 and COMPSCI.255. | LEC | 3 | 3 |
| COMPSCI | 456 | THRY OF COMPUTATION | Presents an introduction to automata, formal languages computability and computational complexity. Topics include finite automata, pushdown automata, context-free grammars, Turing machines, and algorithmically unsolvable and computationally intractable problems. The course is intended for students interested in computer science theory and is cross-listed in Mathematics and Computer Science. Three hours lecture per week. Prerequisites: MATH.185 and COMPSCI.115 or COMPSCI.121. | LEC | 3 | 3 |
| COMPSCI | 480 | OBJ. OR. SOFTWARE E | This project course presents Object-Oriented Software Development techniques that allow a group of programmers to successfully complete a large software development project. Teams of three to five students complete a large software project that starts with understanding user requirements and finishes with a presentation of their final solution. Unified Modeling Language Notations are used by the students to construct and model their software project. Four hours of lecture per week. Prerequisites: COMPSCI.221 and Junior/Senior Standing. | LEC | 4 | 4 |
| COUNSEL | 502 | CAREER DEVELOPMENT | This course allows graduate counseling students to explore in depth selected aspects related to vocational psychology, occupational sociology, career development, career choices, career decision-making, career counseling and guidance, and other career-related issues and behaviors. The course is designed to acquaint students with the basic theories and constructs that are essential to the understanding and implementation of career development through the life span. Systems of career education, occupational information, decision-making strategies, and life-work planning for special populations are examined. Pre- or Co- requisite: COUNSEL.500. | LEC | 3 | 3 |
| COUNSEL | 508 | APP TRAIN TECH COUNS | This course presents an overview of the assessment of individual differences through group tests and measurements. It develops competencies in selecting, administering, and interpreting group intelligence, aptitude, achievement, interest, and personality instruments. It also examines current research involving assessment relative to educational, social, and industrial settings. Prerequisite: COUNSEL.505. This course satisfied PDE guidelines for Inclusive Classrooms/SAS. | LEC | 3 | 3 |
| COUNSEL | 510 | GROUP COUNSELING | Examines group processes and their application to counseling. This course also offers practical experiences in facilitating and leading support groups in an educational organization. Students will also participate as a member in a group setting. Prerequisites: COUNSEL.500 or COUNSEL.501. | LEC | 3 | 3 |

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| COUNSEL | 516 | PRE-PRACTICUM IN SC | Introduces candidates to the school counseling profession through observation of professional counselors in an appropriate, educational setting. Candidates will also engage in preliminary application of theories and principles related to school counseling including diverse populations and settings. Students will complete 40 hours of this clinical, pre-practicum experience. Prerequisites: None. May be offered in traditional and distance education formats. | CLN | 1 | 1 |
| COUNSEL | 517 | PRACTICUM IN SC | Extends the pre-practicum experience and advances the candidates' application of theory and development of counseling skills under site and faculty supervision. The candidate will engage in supervised, direct service to diverse PK-12 students in an appropriate, educational setting. Site and faculty supervisors will provide at least one hour per week of continual feedback and mentoring in individual and group setting. Students will complete 80 hours of this clinical, practicum experience. Prerequisites: None. May be offered in traditional and distance education formats. | CLN | 2 | 2 |
| COUNSEL | 518 | ADV PRACTICUM IN SC | Extends and deepens the pre-practicum and practicum experiences and advances the candidates' opportunity to design, implement and evaluate school counseling programs. Candidates will continue to demonstrate their individual and group counseling skills with diverse students across all grade levels (PK-4; 4-8; 7-12) within an appropriate educational setting. Further, candidates will use available data to assess both individual performance and programmatic performance. Site and faculty supervisors will engage in regular feedback and mentoring of students in individual and group settings. The internship experience spans, at minimum, 420 hours over a 12 week period. Students may divide their internship experience over two terms, allowing those who work full-time or those who have similar commitments to still meet program and Pennsylvania Department of Education (PDE) requirements. Prerequisites: COUNSEL.516, COUNSEL.517 or concurrent. May be offered in traditional and distance education formats. | CLN | 1 | 6 |
| COUNSEL | 520 | HUMAN DEVELOPMENT | Explores human development throughout the lifespan with a special focus on the school age and college years. Topics covered include physical, cognitive, and psychosocial aspects of human growth, development, and behavior. Emphasis will be placed on practical application of the course content to the counseling and student affairs professions. Students will develop an understanding of the personal-social nature and needs of Pre-K students up through college students and families at all developmental levels in multicultural contexts. Prerequisites: None. May be offered in traditional and distance education formats. | LEC | 3 | 3 |
| COUNSEL | 525 | MULTI COUNSELING | Focuses students' attention to the presence of personal resistance, biases, prejudices, stereotypes, judgmental thought processes, and racist tendencies in society and how that affects practicing counselors and student affairs professionals. The development of knowledge and understanding regarding characteristics and concerns of diverse populations, the attitudes and behaviors affected by dominant group membership, and the individual and group approaches/interventions appropriate within the multicultural helping settings will be explored. The course will also provide students with a comprehensive overview of the theoretical approach concerning knowledge, awareness, skills, and attitudes toward seeking mental health services that counselors and student affairs professionals will need in order to demonstrate multicultural competence. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| COUNSEL | 555 | ISSUES IN SC | Studies the incorporation of counseling programs into the total school community based on the frame work of the American School Counseling Association (ASCA) National Model. Contemporary issues are explored as they relate to reducing and eliminating barriers to educational opportunity for every student. Major societal and educational changes impacting students are investigated. The roles of a school counselor as a leader, consultant, collaborator, and coordinator are reviewed. May be offered in traditional and distance education formats. | LEC | 3 | 3 |

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| CRIMJUST | 101 | INTRO CRIMINAL JUST | Examines crime and the criminal justice system from a social science perspective: how the system operates in theory and practice, successful and failed criminal justice policy, and constraints faced by law enforcement agencies, courts and correctional facilities. Required of all criminal justice majors and minors. Multiple sections are offered each fall and spring semester. There are three hours of lecture per week. This course earns three GEPs toward Goal 6 Social Sciences in general education. No prerequisites. Open to all students. | LEC | 3 | 3 |
| CRIMJUST | 200 | CRIMINOLOGY | Discusses the major sociological, biological, and psychological explanations of crime and justice to provide a theoretical understanding of the discipline. Presents the scope of crime in the United States and other countries. Probes each major type of crime, drug crimes, and prostitution. May be offered through a traditional lecture or distance education format. Prerequisite: CRIMJUST.101 - Introduction to Criminal Justice. | LEC | 3 | 3 |
| CRIMJUST | 240 | CORR JUST SYS | Provides students with a general understanding of the corrections component of the U.S. justice system. The students will be provided with a broad foundation of correctional history and types of correctional practices, followed by an in-depth study of institutional corrections, including facility design, classification, specialized populations, prison subcultures and gangs, correctional administration, and re-entry/reintegration. Current issues and trends in corrections will also be discussed, giving the student a more thorough understanding of how the U.S. justice system responds to criminal behavior. This course is open to all students who meet the prerequisite requirement. Prerequisites: CRIMJUST.101. Three hours lecture per week. | LEC | 3 | 3 |
| CRIMJUST | 255 | CJ RESEARCH | Introduces students to social science research methods common in sociology and criminal justice. Finding, reviewing and critically evaluating research literature and exploring essential components in the design of ethical research projects are central. Quantitative techniques are emphasized but attention is given to other approaches as well (e.g., qualitative and evaluation research). Class time typically includes a mix of lecture, discussion, and/or in-class exercises. The course is required for sociology and criminal justice majors but is open to all students who have taken SOC 211 or CRIMJUST 101 and have an interest in social science research. Offered every fall and spring semester. This course earns one GEPs toward Goal 1 Communication and two GEPs toward Goal 2 Information Literacy in general education. | LEC | 3 | 3 |
| CRIMJUST | 260 | CJ STATISTICS | Introduces students to the logic of statistical inquiry in social science research. Students learn basic statistical concepts and techniques necessary to conduct quantitative research. The course is taught with lecture and in-class computation and involves learning to use statistical software. The course is required for sociology and criminal justice majors but is open to others that have taken SOC.255 or CRIMJUST.255 and have an interest in social science research. Offered every fall and spring semester. This course earns two GEPs toward Goal 3 Quantitative Reasoning in general education. | LEC | 3 | 3 |
| CRIMJUST | 300 | JUVENILE DELINQUENCY | Examines social pressures operative upon children and youth in American society, which lead to formation of delinquent personality. Discusses contemporary research on treatment and prevention, juvenile courts, clinics and correctional institutions, evaluation of theories, and other related concepts. This course is offered through a traditional lecture or distance education format. Prerequisites: CRIMJUST.101 - Introduction to Criminal Justice. | LEC | 3 | 3 |

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| CRIMJUST | 320 | VICTIMOLOGY | Examines the incidence, prevalence, and effects of victimization on individuals and groups from such crimes as family violence, rape, street crime, and fraud. Explores the origins and history of crime victims, and subsequent responses by the criminal justice system. Details the overlap of crime victims and offenders, as well as special populations including the elderly, persons with mental illnesses, and those incarcerated. This course will be offered through a traditional lecture or distance education format. Prerequisite: CRIMJUST.101 - Introduction to Criminal Justice.. | LEC | 3 | 3 |
| CRIMJUST | 340 | CRIM INVESTIGATION | Analyzes a wide range of criminal investigation processes and techniques. Topics include the history and evolution of criminal investigation, theory and methodology of criminal investigation, as well as the legal influences on the development of the criminal investigation process. Discussion is centered upon methods applied in managing the investigation of persons and property crimes, case management and the specializations needed in order to successfully investigate criminal matters. This course is offered through a traditional lecture or distance education format. Prerequisites: CRIMJUST.230 - Police and Society. | LEC | 3 | 3 |
| CRIMJUST | 430 | SPEC TOPICS IN CJ | Study of a topic in criminal justice; topic varies with each presentation of the course. | LEC | 3 | 3 |
| CRIMJUST | 450 | AMERICAN GANGS | Provides students with a comprehensive introduction to street and prison gangs, and exposes students to the theory and practice of dealing with gangs in America. The study of gangs, their information, movement, and behavior is essential for criminal justice policy and procedure, both on the street and in prison. Students who satisfactorily complete this course will acquire a general knowledge of gang formation, gang culture, gang crime, and gang response. May be offered through a traditional lecture format. Prerequisites: 12 earned credits in criminal justice. | LEC | 3 | 3 |
| CRIMJUST | 495 | CRIM JUST INTERNSHIP | Participate in an on-the-job apprenticeship in which students are exposed to the responsibilities, skills and activities necessary to accomplish a job in a criminal justice agency, including public and private, local, state and federal, investigatory and correctional agencies. Pass/fail only. Internships will be completed in accordance with current policies of the Center for Professional Development and Career Experience in securing affiliation agreements and with other institutional requirements. Prerequisites: 60 or more credits or permission of instructor. | SUP | 3 | 9 |
| CSD | 152 | INTRO TO COMM DIS | Provides an overview of human communication and swallowing processes. An introduction to speech, language, hearing, communication and swallowing disorders is provided. The professions of communication disorders and the roles of speech language pathologists, audiologists and educators are discussed. This course earns one GEP toward Goal 5 Natural Sciences and two GEPs toward Goal 6 Social Sciences in general education. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisite: None. | LEC | 3 | 3 |
| CSD | 200 | INTRO TO AUDIOLOGY | Introduces students to the anatomy, physiology, disorders, basic assessment, and habilitation/rehabilitation of the auditory system. Three hours lecture per week. | LEC | 3 | 3 |
| CSD | 220 | PHONETICS | Studies of the physiological, acoustical, perceptual, and descriptive aspects of speech and sound production. Primary emphasis is placed on the description, classification, and transcription of speech sounds. Provides a base of knowledge for the diagnosis and treatment of phonemic and phonological disorders of communication. Must be an Audiology/Speech Pathology Major. Must be an Audiology/Speech Pathology major in order to enroll in the program's courses. Three hours lecture per week. | LEC | 3 | 3 |

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| CSD | 260 | CLINICAL OBSERVATION | This course provides observation experiences within the scope of practice of speech-language pathology and audiology under the direction of an ASHA certified professional. Students acquire a minimum of 25 observation hours for ASHA certification and gain information on professional credentialing, contemporary issues, and ethical conduct. Prerequisite: 15 earned credits. Must be an Audiology/Speech Pathology Major. Three hours lecture per week. | LEC | 3 | 3 |
| CSD | 325 | LANG DIS CHILDREN | This course provides a knowledge base for the nature of language, cognitive and communication disorders and differences in children. The course takes a functional approach to the assessment and intervention of childhood language disorders with a focus on utilizing natural contexts as the clinical arena. The role of language in literacy acquisition and cultural-linguistic differences that masquerade as disorders are infused. Must be an Audiology/Speech Pathology Major. Three hours lecture per week. Prerequisites: AUDSLP.240. | LEC | 3 | 3 |
| CSD | 340 | COGNITIVE BEH PRIN | This course will cover the fundamentals of behavioral and cognitive theory. Emphasis will be placed upon application in clinical and school settings associated with the delivery of services to speech-language disordered clients. Must be an Audiology/Speech Pathology Major. Three hours lecture per week. | LEC | 3 | 3 |
| CSD | 366 | A&P SPEECH LANG HEAR | Provides information related to the anatomy and physiology of human communication and associated functions. Course focuses are on speech, auditory/vestibular, and swallowing functions and associated neural control. In addition, central nervous system components relevant to language and cognition will also be included. Anatomical structures involved in communication are placed in the context of functional relevant examples. This course covers prerequisite content required for students planning to pursue post-baccalaureate study in speech-language pathology and audiology, as well as those who may proceed towards a certificate in intraoperative neurophysiological monitoring (IONM). Prerequisite: CSD Major | LEC | 3 | 3 |
| CSD | 410 | APPL SPCH SCIENCE | Applied speech science is the study of acoustic phonetics, speech physiology and the processes by which listeners perceive speech. In particular, this course will emphasize the application of this knowledge to the clinical evaluation of both normal and disordered speech via the use of various types of speech analysis instrumentation. Must be an Audiology/Speech Pathology Major. Prerequisites: BIOLOGY.366, PHYSICS.106, AUDSLP.220. Three hours lecture per week. | LEC | 3 | 3 |
| CSD | 420 | ELL: CULT AWARE&SENS | This course is intended for pre-service/practicing professional educators including speech-language pathologists who support English Language Learners (ELLs) in educational settings. Students will acquire knowledge and skills in working with culturally and linguistically diverse students and families. Course content will focus on behaviors, beliefs, values and attitudes of ELLs and their families. Strategies for promoting cultural awareness and sensitivity within educational and community settings will be discussed. This course is designed to meet the ESL Program Specialist certification for developing cultural awareness/sensitivity. Prerequisites: Teacher education or Audiology/Speech Pathology major or consent of audiology and speech pathology department chairperson. | LEC | 3 | 3 |
| CSD | 430 | FUND OF AUDIOLOGY | Discussion of the anatomy and physiology of the auditory system and the role of hearing in the development of speech and language. The course will provide a synopsis of diagnostic and habilitation/rehabilitation audiologic principles. Prerequisites: 90 credit hours. Three hours lecture per week. | LEC | 3 | 3 |

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| CSD | 432 | ELL: COMM/EDUC STRAT | Provides students with the tools necessary to design standards aligned, authentic, communicative ELL instructional program materials to facilitate English language proficiency. Students analyze methods and strategies that are based on educational and second language learning theories to develop appropriate materials and lessons to use with children and adults at diverse levels of English Proficiency. This course is designed to meet the Pennsylvania Department of Education Standards for initial teacher certification, and/or ESL/ELL Program Specialist Certification for instructional materials/ development. May be offered in traditional and distance education formats. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| CSD | 497 | AUDSLP ELL PROF & FLD | Provides pre-service/public school educators (including speech-language pathologists who support English Language Learners (ELLs) in educational settings) with content that focuses on the development of a well-informed and practice-based philosophy of teaching and learning of English as a Second Language (ESL). This practicum course provides those who are planning to teach ESL in the public and private school settings, clinics, and/or basic adult education an opportunity to interact with ESL teachers and students in the classroom. Practicum students will acquire an understanding of the world of ESL, including the challenges confronting teachers, students, administration, as well as the resources available to deal with these challenges. Through classroom observations, class discussions, written assignments, and a sixty-hour hands-on practicum, students will have opportunities to build on their current understandings of the ESL teaching-learning process. This course is designed to meet the ESL Program Specialist certification competency domain t or Professionalism and Field Experience. Three hours lecture per week. Prerequisites: AUDSLP.415, AUDSLP.420, AUDSLP.432, AUDSLP.425. | LEC | 3 | 3 |
| CSD | 520 | ELL:CULT AWARE&SENS | Must be an Audiology/Speech Pathology Major. | LEC | 3 | 3 |
| CSD | 532 | COMM/ED ELLS | Provides students with the tools necessary to design standards aligned, authentic, communicative ELL instructional program materials to facilitate English language proficiency. Students analyze methods and strategies that are based on educational and second language learning theories to develop appropriate materials and lessons to use with children and adults at diverse levels of English Proficiency. This course is designed to meet the Pennsylvania Department of Education Standards for initial teacher certification, and/or ESL/ELL Program Specialist Certification for instructional materials/ development. May be offered in traditional and distance education formats. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| CSD | 550 | APHASIA | This course focuses on primary disorders of language in adults associated with focal brain damage with emphasis on aphasias. Etiologies and characteristics of language/nonlanguage disturbances associated with lesions to the dominant and non-dominant hemispheres are discussed. Principles and methods of prevention, assessment, intervention and counseling are presented. Prerequisite: Graduate Enrollment in Speech Pathology. Three hours lecture per week. | LEC | 3 | 3 |
| CSD | 558 | CLINIC PRACT & ISSUE | This first in-house clinic course prepares students in all aspects of clinical management to serve individuals with communication and swallowing disorders in the Bloomsburg University Speech, Language, and Hearing Clinic and off-campus sites. Students acquire necessary knowledge and skills in preparation for their field experiences in the professional community. Prerequisite(s): Graduate Enrollment in Speech Pathology. | CLN | 3 | 3 |
| CSD | 560 | VOICE DISORDERS | This course provides an overview of the diagnosis and clinical management of functional and organic voice disorders. The focus of this course is on the perceptual and acoustic analysis of voice disorders, as well as a physiological view of voice therapy. Prerequisite: Graduate Enrollment in Speech Pathology. Three hours lecture per week. | LEC | 3 | 3 |

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| CSD | 562 | LANG DIS SCHOOL AGE | This course extends the study of normal language acquisition through adolescents and explores effects of language disorders on academic performance, especially literacy skills. Principles and methods of classroom-based assessment and intervention are presented. Cultural and educational issues are addressed. May be offered in traditional and distance education formats. Prerequisite: Graduate Enrollment in Speech Pathology. | LEC | 3 | 3 |
| CSD | 574 | CLIN INST IN SP PATH | This course will provide the student with background information and experience with advanced clinical instrumentation used in the assessment and treatment of patients with speech, voice, and swallowing disorders. In addition, clinical experiences applying clinical instrumentation discussed in these lectures will also be implemented whenever possible. Prerequisite: Graduate enrollment in Speech Pathology. Three hours lecture per week. | CLN | 1 | 1 |
| CSD | 584 | FIELD SLP 1 | Field experiences extend preparation of students in all aspects of clinical management to serve individuals with communication and swallowing disorders at external sites within the professional community. Students acquire necessary knowledge and skills required for entry level practice in the profession. Prerequisite(s): Graduate Enrollment in Speech Pathology. Minimum grade no lower that B- in Clinical III. | CLN | 3 | 3 |
| CSD | 586 | FIELD SLP 2 | See course description for AUDSLP.584. | CLN | 3 | 3 |
| CSD | 597 | AUDSLP ELL PROF & FLD | Provides pre-service/public school educators (including speech-language pathologists who support English Language Learners (ELLs) in educational settings) with content that focuses on the development of a well-informed and practice-based philosophy of teaching and learning of English as a Second Language (ESL). This practicum course provides those who are planning to teach ESL in the public and private school settings, clinics, and/or basic adult education an opportunity to interact with ESL teachers and students in the classroom. Practicum students will acquire an understanding of the world of ESL, including the challenges confronting teachers, students, administration, as well as the resources available to deal with these challenges. Through classroom observations, class discussions, written assignments, and a sixty-hour hands-on practicum, students will have opportunities to build on their current understandings of the ESL teaching-learning process. This course is designed to meet the ESL Program Specialist certification competency domain t or Professionalism and Field Experience. | LEC | 3 | 3 |
| CSD | 599 | THESIS CSD | Provides an opportunity to employ accepted methods of empirical research in the solution or intensive study of some problem area of interest or concern in the area of Communication Sciences and Disorders (e.g., Speech Pathology or Audiology). | THE | 1 | 3 |
| CSD | 601 | AUD REHAB ADULTS | Provide a study of all the related aspects in the provision of audiologic rehabilitation services to adults with hearing impairment. Includes such topics as models of audiologic rehabilitation, assessment and management, auditory training, speech-reading, auditory-visual integration, effective communication strategies, assistive technology, speech conservation, and Deaf culture. Prerequisites: Admission to and good standing in the Au.D. program. | LEC | 3 | 3 |
| CSD | 602 | HEARING SCIENCE 1 | Basic properties of simple and complex sounds, sound measurement, and sound propagation will be reviewed. The classical psychophysical procedures for detection of auditory thresholds will be demonstrated. Loudness perception, frequency selectivity, and temporal processing in the auditory system will be discussed. Three hours lecture per week. | LEC | 3 | 3 |

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| CSD | 605 | DIAG AUDIOLOGY 2 | A comprehensive study of a variety of site of lesion tests. The course will cover acoustic immittance measures including tympanometry and acoustic reflex measures for detection of middle ear disorders and site of lesions in the auditory pathway. Other site of lesion tests include threshold and suprathreshold tone decay, loudness recruitment, loudness balance, Short Increment Sensitivity Index, Bekesy tests and brief tone audiometry. Test for detection of nonorganic hearing loss will also be discussed. Three hours lecture per week. | LEC | 3 | 3 |
| CSD | 606 | ELECT & INSTRUM AUD | Solving practical equipment problems and understand the operation of equipment used in clinical practice and hearing services. Three hours lecture per week. | LEC | 3 | 3 |
| CSD | 607 | INTERN: CLIN AUDIO | The Speech, Hearing, and Language Clinic of Bloomsburg University is an integral part of the teaching-training program of the Department of Audiology and Speech Pathology. The clinic provides outpatient diagnostic and therapeutic services for persons of all ages with speech, hearing, and language problems, including students and other members of the college community and residents of the Bloomsburg area. It serves as an extension of the classroom where students can apply and study evaluation procedures, therapeutic methods, techniques and materials, and the classification and etiology of speech and hearing disorders. The clinic provides the student with an opportunity to relate text and lecture information to actual clinical cases under the close supervision of certified staff. Students gain experience in all aspects of remediation diagnosis, therapy, counseling, report writing with a wide variety of clients. The clinic is necessary and inseparable from the existing course sequence. It becomes an important step in the development of a competent clinician, linking the classroom and theory with the clinical experiences, certification, and employment in the field. Internships are carried out within the Speech, Hearing and Language Clinic at Bloomsburg University. | CLN | 1 | 3 |
| CSD | 624 | HA CONSID & FITTING | Clinical consideration and fitting practices will be analyzed and evaluated. This will include practical use and clinical application of acoustic modification and prescription methods in fitting hearing aids. Considerations for the evaluation, selection, and fitting of hearing aids for adults and children. The benefits of bilateral vs. monaural amplification and the verification of instrument gain measurements. Three hours lecture per week. | LEC | 3 | 3 |
| CSD | 626 | INTERN: CLIN AUDIO | The Speech, Hearing, and Language Clinic of Bloomsburg University is an integral part of the teaching-training program of the Department of Audiology and Speech Pathology. The clinic provides outpatient diagnostic and therapeutic services for persons of all ages with speech, hearing, and language problems, including students and other members of the college community and residents of the Bloomsburg area. It serves as an extension of the classroom where students can apply and study evaluation procedures, therapeutic methods, techniques and materials, and the classification and etiology of speech and hearing disorders. The clinic provides the student with an opportunity to relate text and lecture information to actual clinical cases under the close supervision of certified staff. Students gain experience in all aspects of remediation diagnosis, therapy, counseling, report writing with a wide variety of clients. The clinic is necessary and inseparable from the existing course sequence. It becomes an important step in the development of a competent clinician, linking the classroom and theory with the clinical experiences, certification, and employment in the field. Internships are carried out within the Speech, Hearing and Language Clinic at Bloomsburg University. | CLN | 1 | 3 |

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| CSD | 631 | NEUROPHYS FOR AUDIOL | In order to provide comprehensive audiologic services to their patients, audiologists are required to have a working knowledge of numerous biological and technical processes. A strong knowledge base regarding the physiology of the structures involved in audition is especially important. An understanding of auditory neurophysiology is critical in the diagnosis of hearing loss, central auditory processing (CAP) disorders, and retrocochlear pathology; and the means by which audiologic tests can detect these phenomena. This course will provide the audiology doctoral student with basic neurophysiologic characteristics of neurons and those characteristics for the central and peripheral components of the auditory system. The students will also gain knowledge on how to integrate this information into the interpretation of routine clinical audiologic testing. Three hours lecture per week. Prerequisites: Currently enrolled and academic good standing in the Au.D. program. | LEC | 3 | 3 |
| CSD | 635 | CLIN PHYS METH AUD | Study of the Electrophysiology techniques used to assess and diagnose cochlear and retrocochlear pathology and brainstem, spinal and nerve integrity. Review of theories and clinical applications of auditory brainstem evoked potentials, electrocochleography, SSEP and VEP. | LEC | 3 | 3 |
| CSD | 639 | EVAL & MGT BAL DIS I | In order to provide comprehensive audiologic services to their patients, audiologists are often required to perform vestibular and balance assessments. The successful completion of a vestibular assessment requires the clinician to have an understanding of the anatomy and physiology of the systems being tested, the medical history of the patient, the techniques needed to perform the testing, and the way to properly interpret the test results. In addition, once the cause of the disorder is determined, understanding the techniques that are available for treatment will allow the clinician to assist in the treatment of the patient. This course is the first of a 2-course series designed to instruct the audiology doctoral student in the anatomy and physiology of the vestibular and balance systems, and the techniques used in a standard electronystagmography evaluation. In addition, the students will learn the pathophysiology of common vestibular and balance disorders. Three hours lecture per week. | LEC | 3 | 3 |
| CSD | 640 | COCHLEAR/ARB IMPLAN | Implantation is a complex biomedical achievement. The audiologist's role is extremely important in the field. Their role includes understanding biological safety, development of implant program, medical evaluation, audiological evaluation and treatment, surgery, design of implant, programming the processor, benefits and risks, and ethical issues. Three hours lecture per week. | LEC | 3 | 3 |
| CSD | 642 | CLIN EXT/RES 2 | An integral part of the teaching-training program is to have the student transition to hospitals; ENT practices, audiology practices, and medical clinics. This will enable the student to gain experience with a diverse population of clients (age, gender, pathology, social/economic, and race), equipment, and clinical/medical procedures. It is the bridge between the theoretical experience and being prepared for the workplace. The Council for Academic Accreditation requires that specific contact hours must be completed across five categories and two age groups. The total number of contact hours in these categories and age groups will be 2,000 to 3,000 hours. These hours must be acquired in three distinct sites or work environments and there must be a full-time 12-month residency experience. The clinical experience in this sequence of courses will be a graded transition. The first experience (638, 642, 646) will be half time external with academic courses. Experiences 647-648 will be full-time external. This will ensure the diversity and hours needed to be prepared for employment, licensure, and certification. | CLN | 1 | 3 |

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| CSD | 648 | CLIN EXT/RES 5 | An integral part of the teaching-training program is to have the student transition to hospitals; ENT practices, audiology practices, and medical clinics. This will enable the student to gain experience with a diverse population of clients (age, gender, pathology, social/economic, and race), equipment, and clinical/medical procedures. It is the bridge between the theoretical experience and being prepared for the workplace. The Council for Academic Accreditation requires that specific contact hours must be completed across five categories and two age groups. The total number of contact hours in these categories and age groups will be 2,000 to 3,000 hours. These hours must be acquired in three distinct sites or work environments and there must be a full-time 12-month residency experience. The clinical experience in this sequence of courses will be a graded transition. The first experience (638, 642, 646) will be half time external with academic courses. Experiences 647-648 will be full-time external. This will ensure the diversity and hours needed to be prepared for employment, licensure, and certification. | CLN | 6 | 6 |
| DANCE | 224 | CHOREOGRAPHY I | Explores the process of making contemporary dance works in the studio setting. Through an artistic, intellectual and physical lens, students will experience/practice multiple approaches to the craft of dance making. Improvisational structures, text analysis, group discussions, choreographic studies and other varied assignments will lead students to develop the breadth of their choreographic voice via actively engaging in the process of dance making. Students will participate in peer feedback sessions, evaluating and de-constructing the work of all classmates. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisites: Completion of or concurrent enrollment in one of DANCE.221, DANCE.222, or DANCE.223, or approval of the instructor. | SEM | 3 | 3 |
| DANCE | 228 | ENSEMBLE (0-3) | Ensemble (0-3) - Provides a forum for the development of student choreography and/or research. Students will submit proposals to faculty for approval of specific projects such as creating, learning, researching, teaching and ultimately performing student dance works and/or masterworks. This course will focus on developing artistry, technique, leadership skills, a choreographic voice, communication skills, and the skills/knowledge required for the successful performance of dance works. A final public performance will be held at the end of the term showcasing the mentored projects, where appropriate. This course will apply 1 credit toward satisfying the Fitness and Recreational Skills requirement. Prerequisites: Completion of or concurrent enrollment in one of DANCE.221, DANCE.222, or DANCE.223 or approval of the instructor. This course may be repeated for credit without limit. | SEM | 0 | 3 |
| DANCE | 229 | REPERTORY | Repertory (3) - Focuses on the process of creating, learning and performing new faculty dance works, faculty repertoire and/or masterworks of selected guest artists and/or master artists. This course places emphasis on developing artistry, technique, and the skills required for performance. A final public performance will be held at the end of the term showcasing the works studied and/or rehearsed. This course counts as a Group A, Humanities and The Arts General Education Requirements/This course will apply 1 credit toward satisfying the Fitness and Recreational Skills requirement. Prerequisites: Completion of or concurrent enrollment in one of DANCE.221, DANCE.222, or DANCE.223 or approval of the instructor. This course may be repeated for credit without limit. | LEC | 3 | 3 |
| DATASCI | 110 | INTRO DATA SCIENCE | Introduces the concepts and techniques used in data science. Students learn to write computer programs to explore visualize and analyze data. The course is intended for students studying data science, physical science or social science. Prerequisite: COMPSCI.115. Three hours lecture per week. | LEC | 3 | 3 |

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| DEAFHH | 466 | LANG ARTS AND DEAF | Develops skills and competencies in theory of language development of children, youth, and adolescents who are Deaf/hard of hearing and the recognition and acquisition of evidence based practices when teaching language to support their unique language needs as required for Pennsylvania Department of Education and the Council on the Education of the Deaf certification. Prerequisites: DEAFHH.201, ASLTERP.226, AUDSLP.200, SPECED.202 & SPECED.275. Supervised demonstrations and practice are an integral part of this course. | LEC | 3 | 3 |
| DEAFHH | 491 | STDNT TCH DEAF I | Demonstrate effective planning and preparation, classroom management, and instructional delivery and demonstrate professionalism, time management and clerical task completion. The student teaching semester requires two placements of seven to eight weeks in duration. One placement will be with children, youth, and/or adolescents who are Deaf/hard of hearing (PK-12); the other placement will be in an early childhood setting (PK-4). Student teachers will systematically assume the role of each cooperating teacher. Prerequisites: Concurrent with DEAFHH.492: Student Teaching in Deaf Dual II and DEAFHH.493: Student Teaching Seminar in Deaf/Dual. | SUP | 6 | 6 |
| DEAFHH | 492 | STDNT TCH DEAF II | Demonstrate effective planning and preparation, classroom management, and instructional delivery and demonstrate professionalism, time management and clerical task completion. The student teaching semester requires two placements of seven to eight weeks in duration. One placement will be with children, youth, and/or adolescents who are Deaf/hard of hearing (PK-12); the other placement will be in an early childhood setting (PK-4). Student teachers will systematically assume the role of each cooperating teacher. Prerequisite: Concurrent with DEAFHH.491 and DEAFHH.493. | SUP | 6 | 6 |
| DIGFOR | 121 | FILE SYSTEMS I | Introduces basic computer forensic methodology. Analysis of File Allocation Table (FAT) file systems, particularly the FAT 32 file system with an emphasis on forensic information from metadata, slack space, and unallocated space. Examination of various Windows artifacts using appropriate software. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| DIGFOR | 122 | FILE SYSTEMS 2 | Analyzes the NTFS file system in detail with an emphasis on forensic information from metadata, slack space, and unallocated space. Examination of various Windows artifacts using appropriate software. Three hours lecture per week. Prerequisites: DIGFOR.121 with a grade of at least C- or better. | LEC | 3 | 3 |
| DIGFOR | 219 | INTRO TO LINUX | Introduces the Linux and related operating systems, emphasizing Linux commands, particularly those useful for digital forensics and security. Basic Linux file systems are examined. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| DIGFOR | 275 | INTRO TO NETWORKS | Presents a survey of computer network elements. Course focuses on low-level and applied concepts and issues. Local area networks are emphasized; internetworking issues such as routing are also covered. Hands-on activities include: packet sniffing and wire-level network traffic, constructing an Ethernet cable, and configuring a LAN. Three hours lecture per week. Prerequisites: DIGFOR.122 or COMPSCI.130 or COMPSCI.122. | LEC | 3 | 3 |
| DIGFOR | 311 | SECURITY FUNDAMENTALS | Develops the knowledge and skills necessary to identify the critical components of the major security domains including: network security; compliance and operational security; vulnerabilities and threats; application, data, and host security; cryptography; .and access control and identity management. Three hours lecture per week. Prerequisites: DIGFOR.275 or COMPSCI.221. | LEC | 3 | 3 |

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| DIGFOR | 317 | D.F. SOFTWARE | Examines various file systems and Windows operating system versions using industry standard software. A comprehensive study in imaging, analysis and reporting. Three hours of lecture per week. Prerequisite: A grade of C- or better in DIGFOR 122, and 45 earned credit hours (or permission of the instructor.) | LEC | 3 | 3 |
| DIGFOR | 318 | SMALL DEVICES | Develops the knowledge and skills for the forensic acquisition and analysis of small devices such as cellular phones, smartphones, tablets, digital cameras, GPS devices and call detail records. Three hours lecture per week. Prerequisites: DIGFOR.317 with a grade of C- or better, or permission of the instructor. | LEC | 3 | 3 |
| DIGFOR | 319 | UNIX/LINUX FOR D.F. | Uses the Linux and related operating systems for forensics and security tasks. Shell scripting is emphasized. Systems administration is covered. Three hours lecture per week. Prerequisite: DIGFOR.219 with a grade of C- or better and COMPSCI.115. | LEC | 3 | 3 |
| DIGFOR | 351 | ENTERPRISE NET INV | Develops the knowledge and skills for the forensic acquisition and analysis of enterprise networks such as cloud computing environments and enterprise application appliances. The use of logging correlation and the impact of legal considerations in investigations is included. Three hours lecture per week. Prerequisites: DIGFOR.317 and DIGFOR.275. | LEC | 3 | 3 |
| DIGFOR | 371 | PENETRATION TESTING | Introduces the concepts, principles, and techniques associated with penetration testing. The course includes the basic processes of vulnerability assessments and penetration testing and emphasizes exploitation and security weaknesses. Tools and techniques of penetration testing are used. Background information about programs, wireless protocols, and password security is provided as needed. Three hours lecture per week. Prerequisites: DIGFOR.122, DIGFOR.219 and DIGFOR.275. | LEC | 3 | 3 |
| DIGFOR | 417 | ADV TOPICS IN D.F. | Performs advanced forensic methodology and simulated cases requiring imaging, chain of custody, analysis, report writing and testimony using a variety of windows tools and techniques. Three hours of lecture per week. Prerequisite: A C- or better in DIGFOR 318 (or permission of the instructor). | LEC | 3 | 3 |
| DIGFOR | 431 | CYBERCRIME ISSUES | Explores and examine cybercrime as it is influenced by the evolution of computing technology, criminal adoption of technology for illicit purposes, and the labels for social constructs of crimes involving theft, manipulation, degradation or private and public data. Prerequisites: DIGFOR 311 - Security Fundamentals. | LEC | 3 | 3 |
| DIGFOR | 451 | MALWARE FORENSICS | Investigates malware (malicious software) of Windows systems. The course includes the purposes and sources of malware, and emphasizes the discovery of malware on systems and the analysis of malware. Tools and techniques of malware analysis are used. Background information about programs, operating systems and memory use is provided as needed. Three hours lecture per week. Prerequisites: DIGFOR.122, DIGFOR.219 and one of the following: COMPSCI.115 or COMPSCI.121 or COMPSCI.123. | LEC | 3 | 3 |
| ECONOMIC | 121 | PRIN MACROECONOMICS | Develops basic concepts and tools of Macroeconomics. Topics include the nature of economic problems; economic concepts; institutional frameworks; supply, demand and the price system; national income accounting; determination of output and employment levels; consumption, saving and investment behaviors; inflation and unemployment; business cycles; monetary and fiscal institutions and theories; economic growth. This course targets a broad-based audience that includes but is not limited to freshmen. The goal of the course is to introduce students to the economic way of thinking and help them gain insight into how the economy works. May be offered in traditional and distance education formats. Prerequisites: None. This course earns three GEPs toward Goal 6 Social Sciences in general education. Three hours lecture per week. | LEC | 3 | 3 |

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| ECONOMIC | 121 | PRIN MACROECONOMICS | Develops basic concepts and tools of Macroeconomics. Topics include the nature of economic problems; economic concepts; institutional frameworks; supply, demand and the price system; national income accounting; determination of output and employment levels; consumption, saving and investment behaviors; inflation and unemployment; business cycles; monetary and fiscal institutions and theories; economic growth. This course targets a broad-based audience that includes but is not limited to freshmen. The goal of the course is to introduce students to the economic way of thinking and help them gain insight into how the economy works. May be offered in traditional and distance education formats. Prerequisites: None. This course earns three GEPs toward Goal 6 Social Sciences in general education. Three hours lecture per week. | LEC | 3 | 3 |
| ECONOMIC | 122 | PRIN MICROECONOMICS | Dedicated to understanding how individuals, groups, and firms make decisions about allocating their scarce resources (time, money, natural resources, etc.). In this course, undergraduate students from all majors investigate topics such as the determination of prices in a free market system, the analysis of taxation and government regulation and an examination of different market structures. They also see the sense in which market economies are efficient and the ways in which the government can make our economy less or more efficient. The goal of the course is to introduce students to the economic way of thinking and to help them gain insight into how the economy works. Required for Economics majors; open to all students. This course earns three GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None. May be offered in traditional and distance education formats. | LEC | 3 | 3 |
| ECONOMIC | 122 | PRIN MICROECONOMICS | Dedicated to understanding how individuals, groups, and firms make decisions about allocating their scarce resources (time, money, natural resources, etc.). In this course, undergraduate students from all majors investigate topics such as the determination of prices in a free market system, the analysis of taxation and government regulation and an examination of different market structures. They also see the sense in which market economies are efficient and the ways in which the government can make our economy less or more efficient. The goal of the course is to introduce students to the economic way of thinking and to help them gain insight into how the economy works. Required for Economics majors; open to all students. This course earns three GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None. May be offered in traditional and distance education formats. | LEC | 3 | 3 |
| ECONOMIC | 156 | BUS & ECON MATH | Presents an introduction to basic mathematical tools frequently employed in Business and Economics, e.g., systems of linear equations, inequalities, logarithms, and mathematics of finance; and prepares students for the concepts of optimization. The course targets a broad-based audience that includes, but is not limited to freshmen. The course is one of the approved Foundational Mathematics courses and offer 3 GEPs for Goal 3. The goal of the course is to introduce to students how mathematics can be used to design, evaluate, and solve quantitative problems related to Business and Economics. Course may be offered face-to-face or distance ed. | LEC | 3 | 3 |
| ECONOMIC | 156 | BUS & ECON MATH | Presents an introduction to basic mathematical tools frequently employed in Business and Economics, e.g., systems of linear equations, inequalities, logarithms, and mathematics of finance; and prepares students for the concepts of optimization. The course targets a broad-based audience that includes, but is not limited to freshmen. The course is one of the approved Foundational Mathematics courses and offer 3 GEPs for Goal 3. The goal of the course is to introduce to students how mathematics can be used to design, evaluate, and solve quantitative problems related to Business and Economics. Course may be offered face-to-face or distance ed. | LEC | 3 | 3 |

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| ECONOMIC | 221 | MACRO-ECON THEORY | Stresses the national income analysis; theory of income determination, employment and price levels; monetary and fiscal institutions; theory and policy; investment, interest and demand for money; business cycles; inflation and unemployment; national debt; macroeconomic equilibrium; prices, wages and aggregate supply, economic growth, foreign trade and balance of payments; economic policy. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisites: ECONOMIC.122 or ECONOMIC.212, ECONOMIC.121 or ECONOMIC.211 and ECONOMIC.156 or MATH.123 or MATH.125. | LEC | 3 | 3 |
| ECONOMIC | 222 | MICRO & MANAGERIAL | Reviews the theory of consumer behavior and the firm; output and price determination under different market systems; pure competition, pure monopoly, oligopoly and monopolistic competition; production and cost analysis; allocation of resource and distribution of income; comparison of behaviors of competitive, monopolistic and oligopolistic product and resource markets; constrained and nonconstrained optimization techniques and their applications to business decisions and business practices; welfare economics. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisites: ECONOMIC.122 or ECONOMIC.212, ECONOMIC.121 or ECONOMIC.211 and ECONOMIC.156 or MATH.123 or MATH.125. | LEC | 3 | 3 |
| ECONOMIC | 256 | BUS & ECON STAT 1 | Studies the organization and presentation of data, descriptive statistics, elements of probability and probability distributions, sampling and sampling distributions, estimation and hypothesis testing, and correlation as applied to business and economic problems. The course will introduce students to the presentation and analysis of business and economic data. The method of instruction is based on lecture, discussion and problem solving. The course is required for majors. Three hours lecture per week. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education. Prerequisites: ECONOMIC.121 or ECONOMIC.122. | LEC | 3 | 3 |
| ECONOMIC | 256 | BUS & ECON STAT 1 | Studies the organization and presentation of data, descriptive statistics, elements of probability and probability distributions, sampling and sampling distributions, estimation and hypothesis testing, and correlation as applied to business and economic problems. The course will introduce students to the presentation and analysis of business and economic data. The method of instruction is based on lecture, discussion and problem solving. The course is required for majors. Three hours lecture per week. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education. Prerequisites: ECONOMIC.121 or ECONOMIC.122. | LEC | 3 | 3 |
| ECONOMIC | 313 | LABOR ECONOMICS | Presents the economics of the labor market, the supply of and demand for labor, the nature of theory and wages, productivity and inflation, unionism, theories of the labor movement, collective bargaining and public policy. A major focus is the relationship between labor markets and gender and racial issues. For each of the economic issues, the implications with respect to gender and race will be examined. The goal of the course is to introduce students to economic analysis and empirical data which emphasize Labor Market differences by race, gender and international comparisons. The method of instruction is based on lecture, discussion and problem solving. This course serves as an Economic elective and is open to all majors. Three hours lecture per week. This course earns two GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: ECONOMIC.121 and ECONOMIC.122. | LEC | 3 | 3 |

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| ECONOMIC | 456 | INTRO ECONOMETRICS | Applies modern statistical methods to economic problems; time series and cross-sectional analysis of measurements of demand and costs; macroeconomics models; income distribution and growth model. This course does not count as a Group B general education requirement. Three hours lecture per week. Prerequisite: ECONOMIC.121 or ECONOMIC.211 and ECONOMIC.122 or ECONOMIC.212 and ECONOMIC.256. | LEC | 3 | 3 |
| ECONOMIC | 480 | SPECIAL TOPICS | Provides students with an opportunity to receive instruction on topic(s) usually not covered or covered scantily in regular courses due to the uniqueness of content and/or the difficulty in methodology. Topic(s) is selected by the instructor, approved by the Department, and may vary each time the course is offered. Prerequisites: ECONOMIC.121 and ECONOMIC.122. | LEC | 1 | 3 |
| EDFOUND | 204 | EDUC TECHNOLOGY | Presents the use of technology as a tool to improve the teaching and learning processes. The methodologies and materials used in the course are updated each semester according to current trends, practices, and research in the field of Educational Technology. In addition, technologies used in the course will be the same technologies that are used and available in the PK-12 schools. Although the computers used in this course are primarily PCs, students will also be exposed to the Macintosh platform. Students will also explore other technology devices for the classroom as they become available. It also meets the International Society for Technology in Education (ISTE) National Educational Technology Standards for pre-service teachers. This course earns three GEPs toward Goal 2 Information Literacy in general education. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| EDFOUND | 204 | EDUC TECHNOLOGY | Presents the use of technology as a tool to improve the teaching and learning processes. The methodologies and materials used in the course are updated each semester according to current trends, practices, and research in the field of Educational Technology. In addition, technologies used in the course will be the same technologies that are used and available in the PK-12 schools. Although the computers used in this course are primarily PCs, students will also be exposed to the Macintosh platform. Students will also explore other technology devices for the classroom as they become available. It also meets the International Society for Technology in Education (ISTE) National Educational Technology Standards for pre-service teachers. This course earns three GEPs toward Goal 2 Information Literacy in general education. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| EDFOUND | 206 | TCHRS, SCHOOLS, SOC | Introduces students to teaching as a career. The operation of school systems are explored. A study of the various social issues that impact education comprise a major portion of the course. The course provides students an overview of what teaching is all about. It promotes ethical responsibility on the part of the practicing teacher. This course earns one GEPs toward Goal 6 Social Sciences in general education. One hour lecture per week. Prerequisite: None. | LEC | 1 | 1 |
| EDFOUND | 206 | TCHRS, SCHOOLS, SOC | Introduces students to teaching as a career. The operation of school systems are explored. A study of the various social issues that impact education comprise a major portion of the course. The course provides students an overview of what teaching is all about. It promotes ethical responsibility on the part of the practicing teacher. This course earns one GEPs toward Goal 6 Social Sciences in general education. One hour lecture per week. Prerequisite: None. | LEC | 1 | 1 |

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| EDFOUND | 291 | PRIN OF TEACHING | Introduces students to the teaching process. Diverse instructional strategies and techniques, methodologies, and approaches are explored. Topics include: (1) the manner in which personal characteristics, experience and preparation, context in teaching, the changes in society, and student diversity influence how we teach, (2) developing instructional objectives, sequencing learning activities, and applying various taxonomies while conducting microteaching lessons, and (3) discipline strategies, questioning techniques, differentiated learning activities, and mastery teaching. Class term project includes a unit plan and an evaluative instrument. Three hours lecture per week. This course earns two GEPs toward Goal 1 Communication and one GEP toward Goal 4 Cultures and Diversity in general education. Prerequisites: ENGLISH 101 and 30 Earned Credits. | LEC | 3 | 3 |
| EDFOUND | 324 | E-LEARN FOR TEACHING | This is an online course that provides an overview of distance education as implemented over the web. Students will explore and experience the latest web-based and online instructional delivery systems and be given the opportunity to create their own eLearning lessons. Consideration will be given to challenges faced by both students and teachers in the delivery of instruction at a distance in both synchronous and asynchronous formats. A focus will be placed on comparing the similarities and differences between the traditional and online classroom. The advantages and disadvantages of the various types of eLearning systems will be compared. Students will communicate with the instructor and other classmates via e-mail, threaded discussion boards, and scheduled online chat sessions. After completing this course, students will be able to design, plan, and teach eLearning lessons for their classrooms that utilize various forms of technology. | LEC | 3 | 3 |
| EDFOUND | 325 | ED TECH FIELD EXPER | The purpose of this course is to provide students with the opportunity to work with a teacher or technology coordinator in a school district to apply some of the latest educational technology practices directly to the classroom. The format for this course will consist of group meetings on campus, online collaboration with the instructor and class, and field applications. Students will reflect upon and share their experiences with the class at the end of the semester. After completing this course, students will be more aware of the shortcomings and successes of using and applying technology in the schools. | FLD | 3 | 3 |
| EDFOUND | 406 | MULTICULTURAL EDUC | Studies school situations that reflect the cultural diversity of the nation and the world in their social and school goals and curricular and instructional aims and practices. The course provides strategies for accommodating to the cultural norms, values, attitudes, behavior, language, and learning styles of students and for teaching all students to understand and respect their own and other cultures. This course earns two GEPs toward Goal 4 Cultures and Diversity and one GEP toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| EDFOUND | 427 | CLASS MGT & EFF DISC | Focus on strategies for effective discipline and classroom management. Methods of planning for the beginning of the year and for establishing an effective classroom atmosphere that promotes learning throughout the year are reviewed. Current models and major theories of discipline are reviewed and evaluated. Three hours lecture per week. Prerequisite: Approved as BSSED Major. | LEC | 3 | 3 |
| EDFOUND | 497 | TCH ED: FIRST EXPER | The secondary student teaching assignment is determined by the student's area of specialization. Provides opportunities for direct participating experiences. Places students in classrooms with public or private school teachers. The student's major determines their assignment: K-6 - one experience in a primary level and one experience in an intermediate level of a public school; N-K-3 - one experience in a preschool situation and one in a primary level of a public school or two experiences in a primary level of a public school. | FLD | 6 | 6 |
| EDFOUND | 498 | TCH ED: SECOND EXPER | The secondary student teaching assignment is determined by the student's area of specialization. | FLD | 6 | 6 |

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| EDFOUND | 506 | MULTICULTURAL EDUC | | LEC | 3 | 3 |
| EDFOUND | 527 | CLASS MGT & EFF DISC | Focuses on theories of effective discipline and classroom management. Methods of planning for the beginning of the year and for establishing an effective classroom organization to promote appropriate behavior throughout the year are reviewed. Current models and major theories of discipline are reviewed and evaluated. Three hours lecture per week. | LEC | 3 | 3 |
| EDL | 500 | INTRO TO ED LEAD | Focuses on examination of the functions and tasks of educational administration. Issues include the evolving school and college setting; the meaning, development, and work of school and college administrators; educational systems analysis; school and college personnel administration; administrative and organizational behavior; and career ladders in educational administration. Three hours lecture per week. May be offered in traditional and distance education formats. This course satisfies PDE guidelines for Inclusive Classrooms and Standards Aligned System (SAS). Three hours lecture per week. Prerequisite: None. | LEC | 3 | 3 |
| EDL | 501 | ORG BEH & PROG DEV | Explores the various attributes and impacts of organizational behavior with a core focus on effectively creating programs and leading change within an organization. Main topics included are: vision, mission, communication, conflict, renewal, accountability, power, building capacity, change, culture, and professional development. Using needs assessment data for action planning for effective program implementation is established. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| EDL | 502 | DATA DRIVEN DECISIONS | Focuses on accessing and use appropriate data to inform decision-making at all level of the system. Instruction will address the various data tools available through The Pennsylvania Department of Education (PDE) and other forms of student achievement and staff development data to develop actions plans for enhancing student performance and instructional practice. Students will utilize action research to make informed decision. Instruction includes methods of reporting regulations for student achievement and other data to parents and the public. May be offered in traditional and distance education formats. | LEC | 3 | 3 |
| EDL | 503 | SCHOOL LAW & FINANCE | Considers limitations established by local, state, and federal laws relating to the interactions of school personnel. Special attention to recent changes resulting from judicial decisions. Covers fiscal control of education with emphasis on local budgetary problems. May be offered in traditional and distance education formats. Three hours lecture per week. | LEC | 3 | 3 |
| EDL | 505 | C&I THR DESIGN DEV | Focuses on accessing and using appropriate theory and elements to provide a base for the activity of curriculum development. A review, critique, and evaluation of historical and current theoretical positions and design methodology are an integral part of the course. Three hours lecture per week. This course satisfies Pennsylvania Department of Education (PDE) guidelines for Inclusive Classrooms and Standards Aligned System (SAS). Three hours lecture per week. Prerequisites: None. May be offered in traditional and distance education formats. | LEC | 3 | 3 |

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| EDL | 507 | HOME SCHOOL COM RELS | Examines current trends and concerns that characterize the changing American family and draws implications for education. Students will examine family, community, and school structures, patterns, and relationships. They will explore a variety of theories, concepts, principles, and models utilized when implementing effective family, school, and community partnerships. Students will identify and discuss the uses and applications of community and school resources in supporting families and their children. They will learn and simulate techniques for interacting with parents and examine collaboration strategies for interdisciplinary team efforts. Prerequisites: None. May be offered in traditional and distance education formats. | LEC | 3 | 3 |
| EDL | 523 | ASSESSMENT AND CSE | Provides a comprehensive examination of the experiences of postsecondary students including the nature and characteristics of the population, the effects and outcomes of college, the roles and responsibilities of student affairs practitioners in measuring programmatic outcomes, and step-by-step procedures for assessing learning outcomes. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| EDL | 590 | ED RESEARCH | Surveys various concepts, theories and methods related to research conducted in an educational setting. Students will review, analyze, critique and design research using quantitative, qualitative and mixed methods strategies. Critical analysis of existing research literature and research ethics are also presented. Students will develop and refine their educational writing through course assignments and completion of a comprehensive and professionally relevant final paper. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| EDL | 599 | FIELD EXP IN CSA | Exposes students to a comprehensive, pre-professional experience spanning two academic semesters for advanced graduate students in the College Student Affairs specialty within the counseling program. Students must complete 250 hours (per term) of supervised professional level work in a college student affairs department. Graduate students are required to secure their own field placement, which must be approved in advance by the instructor or the program coordinator, as appropriate. Periodic seminars, either online or in person, will be conducted to complement the practical experience. May be offered in traditional and distance education formats. Prerequisites: None. | CLN | 1 | 6 |
| EGGS | 100 | INTRO ENVIRO SCIENCE | Provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for mitigating and/or preventing them. This course is appropriate for all students, has no prerequisites, and is required for majors in Environmental, Geographical, and Geological Sciences. The course is comprised of three hours of lecture per week. Out-of-class field trip with a modest fee is required. This course earns three GEPs toward Goal 5 Natural Sciences in general education. | LEC | 3 | 3 |
| EGGS | 101 | INTRO PHYSICAL GEOG | Investigates the physical processes that create, maintain and modify Earth's physical features, including those that operate in the atmosphere, hydrosphere, lithosphere and biosphere. Emphasis is placed on how people interact with the physical landscape. This course is appropriate for all students and has no prerequisites. The course is comprised of three hours of lecture per week. This course will earn one GEP toward Goal 3 Analytical and Quantitative Skills general education and two GEPs toward Goal 5 Natural Sciences general education. | LEC | 3 | 3 |

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| EGGS | 102 | WORLD CULTURAL GEOG | Investigates the relationships humans, land, culture, and economic activities from a geographic perspective. Demonstrates the tension between two important themes - globalization and cultural diversity - at local, regional, and global scales. This course is appropriate for all students and has no prerequisites. This course is comprised of the hours of lecture and discussion per week. This course will earn two GEPs toward Goal 4 Cultures and Diversity general education goal and one GEP toward Goal 6 Social Sciences general education. | LEC | 3 | 3 |
| EGGS | 103 | DINOSAURS | Explores the nature of scientific and fundamental concepts in earth history using dinosaurs as the platform. Dinosaurs and their relatives are used to examine: the nature of science; methods employed to determine the geologic age of rocks and fossils; processes of fossilization; the origin and extinction of organisms; how paleontologists find, excavate, reconstruct, and interpret the behavior of extinct organisms; how scientists are able to interpret the environments in which extinct organisms lived; and how dinosaurs are portrayed in past and present media, both scientific and popular. Fieldtrip(s) may be required. This course will earn three GEPs toward Goal 5 Natural Sciences general education. | LEC | 3 | 3 |
| EGGS | 105 | ENVIR ISS & CHOICES | Examines contemporary environmental resource issues with a values, ethics, and decision-making framework. A selection of issues is examined within a natural sciences and social sciences (geographic) context, with a focus on raising student's awareness of the connections between (a) environmental values and ethics and (b) environmental resource use and management. This course is appropriate for all students and has no prerequisites. This course is comprised of three hours of lecture and discussion per week. This course will earn one GEP toward Goal 2 Information Literacy general education, one GEP toward Goal 5 Natural Sciences general education, and one GEP toward Goal 6 Social Sciences general education. | LEC | 3 | 3 |
| EGGS | 107 | NATURAL DISASTERS | Explores principles of Earth's internal and external processes through an examination of their manifestations as naturally-occurring disasters and the resultant impact on human life and property. This course is appropriate for all students and has no prerequisites. This course is comprised of three hours of lecture per week. This course will earn three GEPs toward Goal 5 Natural Sciences general education. | LEC | 3 | 3 |
| EGGS | 120 | PHYSICAL GEOLOGY | Studies the composition and structure of the Earth and the internal and external processes that shape the surface of our planet. The laboratory introduces fundamental geological techniques including rock and mineral identification and classification, map interpretation and qualitative and quantitative analysis. The course meets for three hours of lecture and two hours of laboratory per week. Field trips are required. | LAB | 4 | 4 |
| EGGS | 120 | PHYSICAL GEOLOGY | Studies the composition and structure of the Earth and the internal and external processes that shape the surface of our planet. The laboratory introduces fundamental geological techniques including rock and mineral identification and classification, map interpretation and qualitative and quantitative analysis. The course meets for three hours of lecture and two hours of laboratory per week. Field trips are required. | LEC | 4 | 4 |
| EGGS | 130 | HISTORICAL GEOLOGY | Examines the evolution of earth and life on earth as interpreted from rock and fossil evidence; particular emphasis is placed on the geologic history of North America. The laboratory provides an interpretation of the earth's history through the identification and evolution of the rock and fossil record and through the interpretation of geologic maps. The course meets for three hours of lecture and two hours of laboratory per week. Field trips are required. Prerequisite: EGGS 120 - Physical Geology | LAB | 4 | 4 |

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| EGGS | 130 | HISTORICAL GEOLOGY | Examines the evolution of earth and life on earth as interpreted from rock and fossil evidence; particular emphasis is placed on the geologic history of North America. The laboratory provides an interpretation of the earth's history through the identification and evolution of the rock and fossil record and through the interpretation of geologic maps. The course meets for three hours of lecture and two hours of laboratory per week. Field trips are required. Prerequisite: EGGS 120 - Physical Geology | LEC | 4 | 4 |
| EGGS | 150 | QUANTITATIVE METHODS | Introduces and applies the quantitative methods commonly used in the geosciences. Students will learn how to measure or estimate the physical properties of the materials that make up the Earth, the forces that operate on the Earth, and the age of the Earth. Emphasis will be placed on activities that demonstrate these methods and exposure to real problems solved by geoscientists. This course is comprised of three hours of lecture per week. This course earns three GEPs toward Goal 3 Analytical and Quantitative Skills general education. Prerequisite: MATH.109 or higher or consent of the instructor. | LEC | 3 | 3 |
| EGGS | 160 | DIGITAL EARTH | Provides non-majors with a general overview of the fundamentals of geographic information systems (GIS), particularly the role of modern technology in solving problems of a geographic nature. This course earns two GEPs toward Goal 2 Information Literacy and one GEP toward Goal 10 Exhibit responsible citizenship in general education. This course is comprised of three hours of lecture per week. | LEC | 3 | 3 |
| EGGS | 200 | GEOG OF US & CANADA | Presents a spatial analysis of the United States and Canada emphasizing such concepts as environmental perception and sequent occupancy; considers salient problems within geographic regions in terms of genesis and potential for solution. This course is comprised of three hours of lecture per week. | LEC | 3 | 3 |
| EGGS | 213 | SOIL SCIENCE | Provides a thorough background to the geo-environmental aspects of soil such as its physical and chemical properties, factors of soil formation, classification, and geographical distribution. Examines the interpretation of soil surveys and their role in land-use planning, natural resource management, and environmental quality. The course meets for three hours of lecture per week. One semester field trip is required. | LEC | 3 | 3 |
| EGGS | 242 | MAP USE AND ANALYSIS | Uses a variety of published maps for interpreting and interrelating past and present physical and cultural phenomena with a view toward the future. This course has no prerequisites and is comprised of three hours of lecture per week. | LEC | 3 | 3 |
| EGGS | 263 | MINERALOGY & PETROL | Presents hand sample analysis and identification of minerals and rocks with emphasis on field occurrences and associations. The course meets for three hours of lecture and three hours of laboratory per week. Field trips may be required. | LAB | 4 | 4 |
| EGGS | 263 | MINERALOGY & PETROL | Presents hand sample analysis and identification of minerals and rocks with emphasis on field occurrences and associations. The course meets for three hours of lecture and three hours of laboratory per week. Field trips may be required. | LEC | 4 | 4 |
| EGGS | 301 | WATER RESOURCES MGNT | Examines contemporary water resource issues related to environmental planning and management. This course meets for three hours per week. Field trips may be required. | LEC | 3 | 3 |
| EGGS | 302 | LAND RESOURCES MGNT | Examines selected land-related issues and problems with the objective of identifying appropriate management techniques. The course meets for three hours per week. Prerequisite: EGGS 100 - Introduction to Environmental Science or EGGS 105 - Environmental Issues and Choices. | LEC | 3 | 3 |

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| EGGS | 313 | SOIL MPRPH PRACTICUM | Provides hands-on experience with identifying, evaluating, classifying and describing soil profiles, with emphasis on developing skills necessary to be successful in soil judging competitions. Students will identify diagnostic features and horizons, interpret soil profiles and landscape characteristics, and evaluate soil properties and suitability for different land uses. The course meets for two hours of lab per week. This course may be taken three times for credit because contest sites will change each semester the course is offered. A one week mid-semester field trip is required. | LAB | 1 | 1 |
| EGGS | 315 | REC TOURISM SPORT | Explores the array of contemporary issues involving land, leisure and recreational planning and management. This course is comprised of three hours of lecture per week. Prerequisite: None. | LEC | 3 | 3 |
| EGGS | 360 | PRINCIPLES OF GIS I | Introduces computer assisted analysis geographic data. Emphasizes spatial data structures, geographic data files, database management, spatial analysis and cartographic design are emphasized. Provides practical experience in GIS through exercises and class activities. The course meets for three hours per week. Prerequisites: EGGS 242 - Map Use and Analysis. | LEC | 3 | 3 |
| EGGS | 361 | PRINCIPLES OF GIS II | Applies concepts in computer assisted analysis of geographic data. Emphasizes spatial data structures, geographic data files, database management, spatial analysis and cartographic design are emphasized. Provides practical experience in GIS through exercises, class activities, and research projects. The course meets for three hours per week. | LEC | 3 | 3 |
| EGGS | 364 | DIGITAL CARTOGRAPHY | Explores the design and production of maps and other information graphics both from theoretical and applied aspects. Areas of emphasis are data collection, analysis, communication through cartographic design, and the social implications of mapmaking. Students will select appropriate mappable data and use it to design effective maps using professional techniques. This course meets for three hours of lecture per week. Prerequisites: EGGS 360 - Principles of GIS I. | LEC | 3 | 3 |
| EGGS | 368 | STRAT & SEDIMENT | Studies processes and agents which erode, transport and deposit sediments and the geologic interpretation of the resulting rocks. This course is comprised of three hours of lecture and two hours of laboratory per week. Field trips will be required as part of this course. Prerequisites: EGGS 261 - Mineralogy and EGGS 265 - Geomorphology. | LAB | 4 | 4 |
| EGGS | 368 | STRAT & SEDIMENT | Studies processes and agents which erode, transport and deposit sediments and the geologic interpretation of the resulting rocks. This course is comprised of three hours of lecture and two hours of laboratory per week. Field trips will be required as part of this course. Prerequisites: EGGS 261 - Mineralogy and EGGS 265 - Geomorphology. | LEC | 4 | 4 |
| EGGS | 369 | STRUCTURAL GEOLOGY | Teaches students to describe, measure, and analyze rock deformations produced within the Earth on all scales from microscopic to global based upon principles of rock mechanics and utilization of data from field investigations. The course meets for three hours of lecture and two hours of laboratory per week. Field trips will be required as a part of this course. Prerequisites: EGGS.130 - Historical Geology, EGGS.261 - Mineralogy and EGGS.265 - Geomorphology. | LAB | 4 | 4 |
| EGGS | 369 | STRUCTURAL GEOLOGY | Teaches students to describe, measure, and analyze rock deformations produced within the Earth on all scales from microscopic to global based upon principles of rock mechanics and utilization of data from field investigations. The course meets for three hours of lecture and two hours of laboratory per week. Field trips will be required as a part of this course. Prerequisites: EGGS.130 - Historical Geology, EGGS.261 - Mineralogy and EGGS.265 - Geomorphology. | LEC | 4 | 4 |

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| EGGS | 416 | APPL SOILS LAND USE | Provides practical skills and problem-based learning in soils, land use and development. Applications include on-site wastewater treatment, storm water management, engineering, and erosion and sedimentation control, with a focus on regulatory compliance in Pennsylvania. The course meets for three hours of lecture and two hours of lab per week, and is heavily field-oriented. Field trips are required. Prerequisites: EGGS 213 and CHEM 115 or BIO 114 or permissions of instructor. | LAB | 4 | 4 |
| EGGS | 416 | APPL SOILS LAND USE | Provides practical skills and problem-based learning in soils, land use and development. Applications include on-site wastewater treatment, storm water management, engineering, and erosion and sedimentation control, with a focus on regulatory compliance in Pennsylvania. The course meets for three hours of lecture and two hours of lab per week, and is heavily field-oriented. Field trips are required. Prerequisites: EGGS 213 and CHEM 115 or BIO 114 or permissions of instructor. | LEC | 4 | 4 |
| EGGS | 440 | ADV TOPICS IN GIS | Provides students with advanced analytical and practical skills in geographic information systems (GIS) and spatial analysis. The course emphasizes common geoprocessing workflows and applied projects that incorporate systematic approaches to collecting, analyzing, modeling, interpreting, and visualizing spatial data. Conceptually, the course highlights the geographic information science (GIScience) principles that underlie geographic information software procedures. The course meets for three hours per week. Prerequisites: EGGS 361 - Principles of GIS II or consent of instructor. | LEC | 3 | 3 |
| EGGS | 470 | GRNDWATER HYDROLOGY | Focus on groundwater flow theory, well hydraulics, exploration techniques, development of groundwater supplies, and prevention or correction of ground-water pollution. A one or two day field trip may be required. Three hours of lecture and two hours of laboratory per week. Prerequisites: EGGS.265. | LAB | 4 | 4 |
| EGGS | 470 | GRNDWATER HYDROLOGY | Focus on groundwater flow theory, well hydraulics, exploration techniques, development of groundwater supplies, and prevention or correction of ground-water pollution. A one or two day field trip may be required. Three hours of lecture and two hours of laboratory per week. Prerequisites: EGGS.265. | LEC | 4 | 4 |
| EGGS | 470 | GRNDWATER HYDROLOGY | Focus on groundwater flow theory, well hydraulics, exploration techniques, development of groundwater supplies, and prevention or correction of ground-water pollution. A one or two day field trip may be required. Three hours of lecture and two hours of laboratory per week. Prerequisites: EGGS.265. | LAB | 4 | 4 |
| EGGS | 470 | GRNDWATER HYDROLOGY | Focus on groundwater flow theory, well hydraulics, exploration techniques, development of groundwater supplies, and prevention or correction of ground-water pollution. A one or two day field trip may be required. Three hours of lecture and two hours of laboratory per week. Prerequisites: EGGS.265. | LEC | 4 | 4 |
| EGGS | 471 | APPL'D SURFACE HYDRO | Applies knowledge of water movement upon and within the earth and mathematical principles to solve practical problems in water resources. Emphasis is placed on surface hydrology. Several field trips may be required. The course meets for two hours of lecture and two hours of laboratory per week, and is appropriate for EGGS majors who have taken the introductory course in Hydrology. | LAB | 3 | 3 |
| EGGS | 471 | APPL'D SURFACE HYDRO | Applies knowledge of water movement upon and within the earth and mathematical principles to solve practical problems in water resources. Emphasis is placed on surface hydrology. Several field trips may be required. The course meets for two hours of lecture and two hours of laboratory per week, and is appropriate for EGGS majors who have taken the introductory course in Hydrology. | LEC | 3 | 3 |

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| ELEMED | 120 | INTRO TO EDUCATION | The purpose of this course is to facilitate a successful transition to the Early Childhood and Elementary Education Department at Bloomsburg University. Students will complete 40 hours of field experience and learn about the other requirements for admission to the department. The INTASC standards, Bloom's taxonomy, and conceptual framework will also be addressed. Prerequisites: None. | LEC | 1 | 1 |
| ELEMED | 121 | INTRO EARLY CHILD ED | This course examines the historical and philosophical foundations of Early Childhood Education. It analyzes current issues, programs and practices relating to children from birth to grade four. Three hours lecture per week. | LEC | 3 | 3 |
| ELEMED | 150 | INTRO MID LEVEL ED | The purpose of this course is to facilitate a successful transition to the Middle Level Program of Study. Students will complete 40 hours of field experience in a middle level environment, explore the philosophical and historical underpinnings of middle level education, and learn about the other requirements for admission to the department. The Interstate New Teachers Assessment and Support Consortium (INTASC) standards, Blooms taxonomy of three domains, College of Education conceptual framework, ethics and legal responsibilities, and National Middle School Association methodologies will also be addressed. Prerequisites: None. | LEC | 1 | 1 |
| ELEMED | 324 | LA & LIT DIVERSE EC | This course will focus on the language and literacy development of young children, birth through fourth grade. Strategies for planning, teaching, and assessing a high-quality early childhood language arts programs will be emphasized. Emphasis will be placed on listening, speaking, and writing skills for the purpose of developing literacy rich curricula and environments that support and advocate diversity. Three hours lecture per week. Prerequisite: Approved as BSED Major. | LEC | 3 | 3 |
| ELEMED | 331 | TCH SCI & EE PK - 4 | The purpose of this course will be to demonstrate and critically discuss methods of teaching science in grades PK-4, to provide science and environmental education knowledge, skills, techniques, and practical teaching experience, and to encourage positive attitudes, self confidence, and motivation to promote science and environmental education in the school and community. Appropriate teaching strategies, materials, and relevant science content will be the focus of discussions and activities. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisite: Approved as BSED Major. | LEC | 3 | 3 |
| ELEMED | 334 | TCH READ IN EC 1-4 | Examines reading development from first grade through fourth grade. Pre-service teachers will learn about elementary school childhood development as it directly relates to literacy skills of phonemic awareness, phonics, fluency, vocabulary, and comprehension. These pre-service teachers will also learn instructional techniques to facilitate literacy learning that incorporates a variety of research-based approaches, methodologies, instructional materials, and technologies that will assist early elementary school learners literacy development. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisite: Approved as BSED Major. | LEC | 3 | 3 |
| ELEMED | 336 | TCH SOC STUD PK - 4 | The course emphasizes methods and materials appropriate for teaching pre-school through grade 4 social studies education in contemporary society. Students will explore planning, assessment, teaching strategies, social sciences, citizenship, and global education. Students will look at social studies in the context of integrated instruction. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: Approved BSED Major. | LEC | 3 | 3 |

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| ELEMED | 338 | DIAG RDG PRE K-4 | This course examines the diagnostic practices utilized in grades PK-4. Pre-service teachers will learn and apply current research based diagnostic methodology. Application of methods to diagnose strengths/needs in literacy to inform instruction and plan appropriate curriculum will be emphasized. Interventions based on individual children's needs will be defined to support the diagnosis. Three hours lecture per week. Prerequisites: Approved BSED Major. | LEC | 3 | 3 |
| ELEMED | 340 | TCH MATH ECE | Develops mathematical methods, materials, understandings and attitudes essential in the teaching of contemporary programs in the early childhood grades 1-4. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisite: Accepted in BSED Major. | LEC | 3 | 3 |
| ELEMED | 366 | READING CNT AREA 4-8 | Examines best practices in teaching literacy strategies for content area curriculum in upper elementary through middle school grades. Pre-service teachers shall learn how to integrate reading skills into content-specific courses, i.e., social studies, science, mathematics for students in grades 4-8. New literacies and technologies shall be explored and utilized to support the instructional pedagogy that matches the needs of these children/pre-adolescents/adolescents. Three hours lecture per week. Prerequisite: Approved as BSED Major. | LEC | 3 | 3 |
| ELEMED | 384 | TCH CHILD LIT | Explore teaching with a focus on children's literature. Students will learn how to select and teach quality children's literature for their classrooms using hands-on creative and reflective approaches. Prerequisites: Students must have declared a major in the College of Education and completed any 15 credits before registering. | LEC | 3 | 3 |
| ELEMED | 410 | M&M ACROSS CONTENT PK-K | Provides BSED education majors the opportunity to explore teaching in PreK-K with the focus on the content areas of math, science, social studies and language arts. Education majors will learn how to teach in a hands-on creative approach through methods and materials that can be used in constructing centers and classroom learning experiences while focusing on the content areas. Prerequisite: Approved as a BSED Major. | LEC | 3 | 3 |
| ELEMED | 494 | TCH ED: FIRST EXPER | The student teaching assignment is determined by the student's area of specialization. Provides opportunities for direct participating experiences. Places students in classrooms with public or private school teachers. The student's major determines their assignment: K-6 - one experience in a primary level and one experience in an intermediate level of a public school; N-K-3 - one experience in a preschool situation and one in a primary level of a public school, or two experiences in a primary level of a public school. | FLD | 6 | 6 |
| ELEMED | 495 | TCH ED: SECOND EXPER | see ELEMED.494 | FLD | 6 | 6 |
| ELEMED | 496 | PRACTICUM ECE EL ED | Individually prescribed course of study and activity-based learning and practice teaching. Previous experience and academic achievement reviewed. Consent of program coordinator and department chairperson required. Prerequisite: 64 credits and complete packet. Prerequisite: Approved BSED Major. | SEM | 1 | 6 |
| ELEMED | 532 | FINE ARTS & PLAY ECE | Familiarize graduate students with current theories and pedagogical approaches for nurturing and promoting creative expression in young children. Students will examine the relationship between play, the arts, and learning. The visual and performing arts such as drawing, music, dance/movement, and drama in the early childhood setting are emphasized. The role of the educator in planning a creative learning environment that supports a developmentally appropriate and inclusive play and arts-based curriculum will be emphasized. This course may be offered online or in the traditional class setting. Prerequisites: None. | LEC | 3 | 3 |

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| ELEMED | 537 | M&M LANG ARTS SOC ST | Offers an approach in curriculum in which social studies and language arts content, skills and methods of instruction are integrated. Particular attention given to creative, integrated activities and learning situations that range from individual inquiry to group interactions. Three hours lecture per week. | LEC | 3 | 3 |
| ELEMED | 596 | PRACTICUM ECE EL ED | see ELEMED.594. | SEM | 1 | 6 |
| ENGLISH | 101 | FOUND OF WRITING | Provides foundational writing experience and instruction to facilitate first-year students' transition to writing at the postsecondary level by exploring the implications of writers' rhetorical situations (audience, purpose, and media) and of individual and social writing processes (drafting, peer review, and reflection) on the texts they generate. Engages students in critical reading and use of source materials. All students will compile and submit an ePortfolio to the English department. Satisfies the General Education requirement of a foundational course in English Composition that students are expected to fulfill in their first year of enrollment. This course earns three GEPs towards Goal 1 - Communication. Prerequisites: None. | LEC | 3 | 3 |
| ENGLISH | 101X | FOUND OF COLLEGE WRITING | Provides foundational writing experience and instruction to facilitate first-year students' transition to writing at the post-secondary level by exploring the implications of writers' rhetorical situations (audience, purpose, and media) and of individual and social writing processes (drafting, peer review, and reflection) on the texts they generate. Engages students in critical reading and use of source materials. All students will compile and submit an ePortfolio to the English department. Satisfies the General Education requirement of a foundational course in English Composition that students are expected to fulfill in their first year of enrollment. Open only to students who do not meet the criteria to take English 101. Carries 3 GEP's for Goal 1 - Communication. Prerequisites: Co-requisite with English 102 - Foundations Writing Lab | LEC | 3 | 3 |
| ENGLISH | 102 | FOUND WRITING LAB | Supports students taking ENGLISH 101X with this co-requisite rather than a three-credit prerequisite followed by ENGLISH 101, to fulfill the requirement for a foundational writing class. Focuses on practicing reading and writing strategies as well as self-efficacy, self-regulation, and metacognition. Provides opportunities for hands-on reading and writing activities, goal setting, reflection, and peer tutoring support. Students must pass ENGLISH 101X in the same semester, in order to pass ENGLISH 102. ENGLISH 102 is a 1-credit course that counts toward graduation. Prerequisites: Co-requisite of ENGLISH 101X - Foundations of College Writing | LEC | 1 | 1 |
| ENGLISH | 103 | READING AND WRITING | Introduces approaches, strategies, and experiences for students to acquire and value college-level literacy. Focuses on complex reading and study skills essential for learning and meeting the academic demands of college. Offers reading and writing strategies through discussion, modeling, collaboration, drafting, and revision to give students experiences with college-level thinking, reading, and writing. All students must compile and successfully submit a final ePortfolio to pass. This course is a prerequisite for Foundations of College Writing (ENGLISH 101) for students selected through placement. It is also available through self-selection. Students who have successfully completed ENGLISH 101 are not eligible for this class. Prerequisites: None. | LEC | 3 | 3 |
| ENGLISH | 111 | LANG SOC INTERACTION | Introduces students to a descriptive approach to language study. Explores fundamental sociolinguistic concepts, focusing specifically on an in-depth study of the relationship between language and culture. Course study is designed to offer students insight into the cultural and historical causes of language variation and change and to emphasize language variation as evidence of human diversity. Open to all majors. Prerequisites: None. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. | LEC | 3 | 3 |

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| ENGLISH | 151 | INTRO TO LITERATURE | Defines and analyzes the four genres of creative literature-poetry, drama, novel, and short story in order to instill an understanding and appreciation of literature. Special attention is given to the techniques through which literature captures and comments on human experience. The course is designed for students seeking General Education Points in Arts and Humanities and Communication and is conducted in a combination of lecture and discussion, and formal and informal writing assignments. Not applicable toward a major in English. Three hours lecture per week. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| ENGLISH | 152 | LITERATURE & SOCIETY | Focuses on a particular theme, social issue, ethical dilemma, or area of study or work through readings (and/or screenings) of a range of texts. Provides a literary lens through which to explore the chosen topic. Course focus varies with instructor. The course is designed for students seeking General Education Points in Arts and Humanities and Communication and is conducted in a combination of lecture and discussion, and formal and informal writing assignments. Not applicable toward a major in English. Three hours lecture per week. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| ENGLISH | 203 | APPR TO LIT STUDY | Examines the fundamental elements of literary history, critical and analytical strategies, terminology, research, and writing. Prepares students for advanced techniques of textual analysis, literary research, and the writing of interpretive and research essays. Format is lecture-discussion. Enrollment is restricted to English majors and minors except with permission of the English Department Chair. Typically offered in spring and fall semesters. Prerequisites: ENGLISH 101. | LEC | 3 | 3 |
| ENGLISH | 204 | INTRO CREATIVE WRIT | Introduces methods and craft of creative writing in prose and poetry forms. Students create and revise their own imaginative works using models by established writers. The course is conducted in a combination of lecture, peer workshop, and discussion. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisite: ENGLISH.101 or permission of instructor. Course offered face-to-face or distance ed. | LEC | 3 | 3 |
| ENGLISH | 212 | ENGLISH GRAMMARS | Familiarizes students with both traditional and modern grammatical terminology, offers a descriptive overview of American English grammars and syntax, and provides a structural framework for analyzing written English. Course study is designed (i) to enable students to gain an explicit (conscious) knowledge of English grammar and syntax, (ii) to provide students with the tools necessary for analyzing and understanding English syntactic structures in standard and non-standard varieties of American English, and (iii) to understand the value of judgments placed on grammar (particularly on non-standard dialects) in education and in American society. Prerequisite: ENGLISH 101. Open to all majors. Typically offered in fall and springs semesters. GEPs toward Goal 1 Communication and Goal 4 Cultures and Diversity. Prerequisite: ENGLISH 101. Open to all majors. | LEC | 3 | 3 |
| ENGLISH | 236 | AMERICAN LIT 1 | Examines American literature and its cultural contexts from its colonial beginnings to the Civil War. Lecture/discussion. Students will study major authors and literary genres of the period and will write analytically about assigned texts. Required for the English major; open to students of all majors. Typically offered in the fall and spring semesters. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: ENGLISH.101. | LEC | 3 | 3 |

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| ENGLISH | 247 | BRITISH LIT 2 | Examines major British authors from 1800 to the mid-20th century, with selected later 20th century literary developments, within the social, political, and cultural contexts of their respective periods. Lecture/discussion. Students will study major authors and literary genres of the period and will write analytically about assigned texts. Required for the English major; open to students of all majors. Typically offered in the fall and spring semesters. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: ENGLISH.101. | LEC | 3 | 3 |
| ENGLISH | 274 | SHORT STORY | Examines the genre of the short story with attention to form, technique, and interpretation. Note: this is not a class in fiction writing, but an examination of short fiction literature. The primary writing done for this class will be literary criticism. Open to students in all majors and is an elective for Creative Writing Majors supporting Objective 2 in the Student Learning Objectives. Prerequisite: ENGLISH 101 or permission of the instructor. Three hours lecture per week. Offered once a year. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 7 Arts and Humanities in general education. | LEC | 3 | 3 |
| ENGLISH | 287 | BLACK WOMEN WRITERS | Examines significant fiction, drama, poetry and autobiographies written by women of African descent during the 20th and 21st centuries. Open to all majors. This course earns one GEP toward Goal 1 Communication, one GEP toward Goal 4 Cultures and Diversity and one GEP toward Goal 7 Arts and Humanities in general education. Typically offered every two years. Three hours lecture per week. Prerequisite: ENGLISH.101. | LEC | 3 | 3 |
| ENGLISH | 288 | FEMINIST READNG CULT | Examines a variety of written and visual texts to analyze the economic, social, political, historical, cultural, and racial forces in the lives of women, both nationally and internationally and investigates the complexity of gender representation in a variety of contexts. Lecture/ discussion. Students will write analytically about texts. Open to students in all majors. This course will be offered at least once every other semester. This course earns one GEP toward Goal 1 Communication, one GEP toward Goal 4 Cultures and Diversity and one GEP toward Goal 7 Arts and Humanities in general education. Prerequisites: None. | LEC | 3 | 3 |
| ENGLISH | 297 | WRTG CONSULTANT TRNG | Introduces students interested in working as writing consultants in the Bloomsburg University Writing Center (BUWC) to writing center theory and practice, writing across the curriculum, basic writing, issues of language diversity, and other topics related to effectively helping a diverse population of student writers from multiple disciplines. Prerequisites: 15 credits including English 101, 201 or writing intensive course. | SUP | 1 | 1 |
| ENGLISH | 302 | NON-FICTION WORKSHOP | Introduces methods and craft of non-fiction writing. Students create and revise their own imaginative works using models by established writers. Open only to English majors and minors and is an elective for Creative Writing Majors supporting Objective Three (write original inventive and creative works). Three hours lecture per week. Prerequisites are ENGLISH 204 and ENGLISH 260, or permission of the instructor. Taught at least every other year. | LEC | 3 | 3 |
| ENGLISH | 307 | WRITING FOR INTERNET | Developing skills to write for online audiences, this course is open to all majors with appropriate prerequisites, but particularly to students in the DRPW program. This course will focus on both the designing and authoring of websites. Students will demonstrate critical awareness of rhetorical conventions on the Internet as well as producing websites, both individual and in collaboration with other members in the class. Previous experience with word processing and web browsing programs is assumed because of the prerequisites; no other computer experience necessary. It is offered within a four-semester rotation or every second year. Prerequisites: ENGLISH 101 - Foundations of College Writing, INTSTUDY 231 - Technical Writing or BUSED 333 - Business Communication & Report Writing, equivalent professional work experience, and INSTTECH 470/570 - Introduction to Website Development, or ARTSTDIO 295 - Graphic Design: Digital Image Making or permission of instructor. | LEC | 3 | 3 |

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| ENGLISH | 311 | STRUCTURE OF ENGLISH | Introduces students to linguistic science. Focuses on the sound patterns, morphology, word formation processes, semantics, and syntax of modern English. This course is open to all English majors and minors and is an elective in the English Department's Literature Concentration supporting Program Goal 2 ("Develop a Range of Literacies"). This is a required course for English/Secondary Education Concentration students. Typically offered once a year. Prerequisites: ENGLISH.101 and 45 credits or permission of department chair. Three hours lecture per week. | LEC | 3 | 3 |
| ENGLISH | 315 | RES ENGLISH STUDIES | Using the in-depth interdisciplinary examination of a theme as a vehicle, this course focuses on strengthening students' research and writing skills. Students will analyze a variety of texts related to the course theme and will write in a variety of formats (e.g. abstracts, summaries, research, explication, etc.). The primary writing assignment will be a 15 to 20-page research paper that follows MLA conventions and documentation style. Enrollment is required of and restricted to majors in the English/English track except by permission of the English Department Chair. This course satisfies Learning Objective 1 of the major. Typically offered in fall and spring semester. Prerequisites: English 203; junior standing, or permission of the department chair. | LEC | 3 | 3 |
| ENGLISH | 397 | WRTG CTR CONSULTING | Assists students working as a writing consultants in the Bloomsburg University Writing Center (BUWC) in continuing their professional development by exploring specific topics such as technology in the writing center, writing across the curriculum, issues of language diversity, service-learning, basic writing, and other issues related to effectively helping a diverse population of student writers from multiple disciplines. Course may be repeated up to six times. Prerequisites: 15 credits including ENGLISH.221, ENGLISH.101 or ENGLISH.201 or a writing-intensive course, and/or permission of University Writing Center director | SUP | 1 | 1 |
| ENGLISH | 404 | CREATIVE WRITING SEM | An advanced course in creative writing. Through revision and editing, students have the opportunity to create a publishable body of work in a genre of their choosing, and create a portfolio suitable for job/graduate school interviewing. This course will enable students to develop a significant creative writing project while in a workshop setting and under the guidance of an instructor. Exercises to hone craft and essays to articulate theory are also included. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisite: 90 credit hours plus ENGLISH.204 and two 300-level creative writing genre courses. Not offered every semester. | SEM | 3 | 3 |
| ENGLISH | 463 | SHAKESPEARE | Study of Shakespeare's works, with emphasis on Shakespeare as poet and playwright and attention to conditions of the Elizabethan theater and history of the Shakespearean text. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisite: 45 credits and either ENGLISH.201 or ENGLISH.203 and ENGLISH.246 or permission of the instructor. | LEC | 3 | 3 |
| ENGTECH | 180 | CAD ENGRG GRAPHICS | Provides hands-on introduction to computer-aided design with an emphasis on basic engineering graphics. Orthographic, sectional, auxiliary, isometric, and perspective views. Solid modeling, dimensions, and tolerances. This course does not count as a Group C, Natural Sciences & Math General Education Requirements. | LEC | 3 | 3 |
| ENGTECH | 231 | ELECT MACH & POW SYS | Explores fundamentals of electrical machines, transformers and power systems. Main topics include three-phase circuits, single-phase and three-phase transformers, synchronous generators and motors, three-phase induction motors, single-phase motors, DC generators and motors, stepper motors, electronic control of motors, and electric utility power generation, transmission, and distribution. Three hours lecture and one three-hour laboratory per week. Prerequisites: ENGTECH 141 - Circuit Analysis and PHYSICS 212 - General Physics 2 | LAB | 4 | 4 |

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| ENGTECH | 231 | ELECT MACH & POW SYS | Explores fundamentals of electrical machines, transformers and power systems. Main topics include three-phase circuits, single-phase and three-phase transformers, synchronous generators and motors, three-phase induction motors, single-phase motors, DC generators and motors, stepper motors, electronic control of motors, and electric utility power generation, transmission, and distribution. Three hours lecture and one three-hour laboratory per week. Prerequisites: ENGTECH 141 - Circuit Analysis and PHYSICS 212 - General Physics 2 | LEC | 4 | 4 |
| ENGTECH | 321 | MANUF PROCESSES | Studies the various types of manufacturing processes and the design of parts and assemblies to insure their manufacturability. Includes PCB artwork and fabrication, process design and evaluation using SPC techniques, quality control, reliability and visits to area manufacturing facilities. Two hours lecture and three hours lab per week. Prerequisites: ENGTECH.241. | LAB | 3 | 3 |
| ENGTECH | 321 | MANUF PROCESSES | Studies the various types of manufacturing processes and the design of parts and assemblies to insure their manufacturability. Includes PCB artwork and fabrication, process design and evaluation using SPC techniques, quality control, reliability and visits to area manufacturing facilities. Two hours lecture and three hours lab per week. Prerequisites: ENGTECH.241. | LEC | 3 | 3 |
| ENGTECH | 331 | LINEAR SIGNALS & SYS | This course provides a mathematical basis for analyzing and designing electrical systems. Topics include Laplace transform, transfer functions, frequency response, Fourier analysis, Z-transform, and stability considerations for continuous-time and discrete-time systems. Prerequisites: ENGTECH.141 and MATH.322 (completed or concurrent). Three hours lecture per week. | LEC | 3 | 3 |
| ENGTECH | 381 | ENGR APPL IN IND 1 | Presents case studies of engineering problems and their solutions in various industrial settings. The role of organizational structure and project management in engineering design and manufacturing is discussed. This is the first of a two-part engineering applications in industry sequence. Three hours of lecture per week. Prerequisite: ENGTECH.380. | LEC | 3 | 3 |
| ENGTECH | 431 | IND. PROCESS CONTROL | Addresses fundamental and practical issues related to industrial process control system design, implementation and operation. The various types of automatic controllers including on/off, PID and digital PID, and their implementation using discrete electronics, personal computers, and programmable logic controllers are discussed. Prerequisites: ENGTECH.241 and ENGTECH.331 or consent of the instructor. Two hone hour lectures and one three-hour laboratory per week. | LAB | 3 | 3 |
| ENGTECH | 431 | IND. PROCESS CONTROL | Addresses fundamental and practical issues related to industrial process control system design, implementation and operation. The various types of automatic controllers including on/off, PID and digital PID, and their implementation using discrete electronics, personal computers, and programmable logic controllers are discussed. Prerequisites: ENGTECH.241 and ENGTECH.331 or consent of the instructor. Two hone hour lectures and one three-hour laboratory per week. | LEC | 3 | 3 |
| ENGTECH | 441 | COMM. SYSTEMS | Presents the theory and application of modern communications systems, including types of modulation, noise, multiplexing, multiple access and digital signaling. Use of modern software package for communication systems design and analysis. Three hours lecture and two hours lab per week. Prerequisites: PHYSICS.212 and ENGTECH.331 | LAB | 4 | 4 |

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| ENGTECH | 441 | COMM. SYSTEMS | Presents the theory and application of modern communications systems, including types of modulation, noise, multiplexing, multiple access and digital signaling. Use of modern software package for communication systems design and analysis. Three hours lecture and two hours lab per week. Prerequisites: PHYSICS.212 and ENGTECH.331 | LEC | 4 | 4 |
| ENRICH | 115 | PATHWAYS TO SUCCESS | Assists in the development of essential skills necessary for academic, personal and professional success. The focus of the course is identification and minimization of barriers that impede individual student achievement. Through self-assessment, exploration, and reflection, students are encouraged to evolve in personal responsibility, self-motivation, self-management, and critical thinking. This course is designed as a positive intervention for students experiencing academic difficulties. Prerequisites: None. | LEC | 1 | 1 |
| ENRICH | 150 | PEER ED TRAINING | This course is designed for students working as peer educators in various academic support programs at Bloomsburg University. It introduces students to the roles and responsibilities of peer educators in a college setting. It will overview effective strategies for peer educators including fostering independence, stimulating active learning and critical thinking, and assessing student learning. Topics related to understanding ourselves and others as learners, building confidence, and working in a diverse environment will also be highlighted. Topics are designed for peer educators to achieve Level 1 tutor certification. Prerequisites: Instructor Permission. | LEC | 0 | 0 |
| ENRICH | 151 | PEER ED STRATEGIES | This course is designed for students working as peer educators in various academic support programs at Bloomsburg University. It introduces students to the roles and responsibilities of peer educators in a college setting. It will overview effective strategies for peer educators including fostering independence, stimulating active learning and critical thinking, and assessing student learning. Topics related to understanding ourselves and others as learners, building confidence, and working in a diverse environment will also be highlighted. Topics are designed for peer educators to achieve Level 1 tutor certification. Students will develop a portfolio of their work for this course. Prerequisites: Instructor Permission. | LEC | 1 | 1 |
| EXERSCI | 114 | TEAM SPORTS | Provides activity and instruction in the development of individual offensive and defensive fundamentals and their incorporation into a team concept. Students are required to participate in various team sports to facilitate the development of healthy behaviors over their lifetimes. This course earns two GEPs toward Goal 9 Healthy Living in general education. Prerequisites: None. | ACT | 2 | 2 |
| EXERSCI | 161 | INTRO EXERCISE SCI | Provides a basic overview of the sub-disciplines and potential careers, including their professional duties, within the broader field of Exercise Science. This course will introduce students to the variety of scientific, popularized, and professional information available to Exercise Science professionals and the public. Students will be required to find, analyze, and use information from a variety of sources to investigate areas of interest within the field of Exercise Science. Prerequisites: None. | LEC | 3 | 3 |
| EXERSCI | 211 | M&M ELEM SCHOOL PE | Provides principles and procedures to meet the needs and interests of elementary-age children in the area of physical education. The course will address elements of effective instruction, management, and assessment. The course is most appropriate for future educators; students will learn to teach children psychomotor skills as well as use physical activity as a tool for teaching other subjects. The importance of promoting the health and fitness of today's youth will be emphasized. Students can expect to engage in physical activity during the teaching lab component of this course. This course fulfills 1 GEP for Goal 1 (Communication) and 2 GEP's for Goal 9 (Healthy Living). Prerequisites: NONE | LEC | 3 | 3 |

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| EXERSCI | 250 | LIFEGUARDING | Provides an opportunity to attain an American Red Cross Lifeguarding Certificate. CPR, AED, and First Aid are taught as part of this course. Students must be able to pass the standard Red Cross swimming tests to be eligible for certification. This course earns two GEP towards Goal 9 Healthy Living and one GEP toward Goal 10 Citizenship in general education. | ACT | 3 | 3 |
| EXERSCI | 255 | FUNCTIONAL ANATOMY | Discusses and examines the musculoskeletal system from a functional anatomical viewpoint. Focus will be not only on the characteristics of the musculoskeletal system, but also on how the system functions to perform coordinated movement. Furthermore, analysis of specific movements during physical activity or exercise will be conducted. Laboratory sessions are integrated into the meeting times throughout the semester. Prerequisites: NONE. | LEC | 3 | 3 |
| EXERSCI | 261 | FIRST AID & SAFETY | Provides an opportunity to attain American Red Cross Cardiopulmonary Resuscitation (CPR), Automated External Defibrillation (AED), and First Aid certification for the adult, child, and infant. Students must be able to pass both the written and practical skills tests to be eligible for certification. This course includes both care for, and prevention of, a variety of emergency situations including, but not limited to, cardiac emergencies, breathing emergencies, sudden illness, environmental emergencies, soft tissue injuries, and injuries to muscles, bones, and joints. These topics are covered in relation to adults, children, and infants, and issues pertaining to other special populations of interest such as diabetics, pregnant women, people with disabilities, and those with language barriers are also covered. This course earns two GEPs toward Goal 10 Citizenship in general education. Prerequisites: None. | LEC | 3 | 3 |
| EXERSCI | 270 | EXERCISE & YOU | Studies and measures the health-related components of physical fitness including cardiorespiratory endurance, muscular strength, muscular endurance, flexibility, and body composition and how they relate to making lifelong, healthy decisions. Anatomical structures, physiological functions, nutrition, and stress reduction are addressed through programmed exercise and practical applications. Use of emergent technology will be used to track monitor, and assess physical fitness. This course earns two GEPs toward Goal 9 Healthy Living and one GEP towards Goal 2 Information Literacy, in general education. Prerequisites: NONE. | ACT | 3 | 3 |
| EXERSCI | 278 | YOGA CONCEPTS | Provides an opportunity for developing a clear understanding of the holistic approach to health and wellness through the medium of Yoga. Introduces the conceptual basis, principles, scientific aspects, practice and nomenclature based on the Yogasutras of Patanjali. Involves the systematic practice and refinement of physical postures, relaxation, and breathing techniques. This course earns two GEPs toward Goal 9 Healthy Living in general education. Prerequisites: None. | ACT | 2 | 2 |
| EXERSCI | 286 | DECISIONS FOR HEALTH BEH | Focuses on personal health issues, the consequences of decisions made about health choices and the societal implications, locally and globally of those decisions. Course topics include: human sexuality, mental health, fitness and wellness, nutrition, cancer, and death and dying. This course earns one GEP toward Goal 2 Information Literacy and one GEP toward Goal 10 Citizenship in general education. Prerequisite: None. | LEC | 3 | 3 |
| EXERSCI | 287 | INTRO TO COACHING | Provides prospective coaches with tools to develop a foundation for the coaching profession. An overview of basic theories and coaching applications in sport philosophy, sport psychology, sport physiology, sport management and sport pedagogy are discussed. This course earns one GEP toward Goal 1 Communication, one GEP toward Goal 4 Cultures and Diversity and one GEP toward Goal 10 Citizenship in general education. Prerequisites: None. | LEC | 3 | 3 |

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| EXERSCI | 288 | WOMEN IN SPORT | Surveys aspects of the historical and contemporary role of women in sport. Encourages an awareness in students regarding the differences between sport for men and women in various contexts, including social, psychological and biophysical. By examining the past and current practices and cultural norms in light of evolving research findings, students are expected to increase their understanding of issues germane to sport. This course earns two GEPs toward Goal 4 Cultures and Diversity and one GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None. | LEC | 3 | 3 |
| EXERSCI | 294 | RESIST TRNG TECHNIQ | Study of the principles and techniques of resistance training. A complete foundation of the practical application of resistance training exercise. Development and understanding of resistance training program design. An understanding of various resistance training equipment and training methods. A basic understanding of weight training is necessary. Prerequisites: BIOLOGY.173 or Instructor Consent. | LEC | 3 | 3 |
| EXERSCI | 295 | TESTS & ASSESSMENTS | Provides an integrated examination of the theory and methodology of health- and performance-related physical fitness testing. Allows for practical experience in the selection, administration, and interpretation of physical fitness testing and assessment data for health adults with varying fitness levels. Laboratory sessions are integrated into the meeting times throughout the semester. Prerequisites: Minimum of 30 completed credits. | LEC | 3 | 3 |
| EXERSCI | 304 | PRIN RES TRAINING | Advanced study of the principles, techniques and associated physiological effects of resistance training. Detailed analysis of various resistance training equipment and training methods to gain expertise in developing exercise prescriptions for different populations. Previous experience in weight training is necessary. Prerequisites: BIOLOGY.173, BIOLOGY.174, EXERSCI.294 or consent of instructor. | LEC | 3 | 3 |
| EXERSCI | 306 | PSYCHOLOGY OF SPORT | Aims to familiarize the student with psychological components of human performance related to sport and exercise. Focuses on sport participation and includes psychological assessment, intervention techniques and a brief introduction to the predominant research methods used in sport psychology. Course has particular value to coaches, teachers, psychologists and exercise specialists and other sport-affiliated professions. | LEC | 3 | 3 |
| EXERSCI | 351 | BIOMECHANICS | Provides the students with a fundamental understanding of the laws of physics as they apply to human motion. Emphasis is placed on the kinematic analysis of common movements in sport and exercise. Students will learn to identify and discuss the various phases of motion and explain the mechanical significance of each in producing desired outcomes. Laboratory sessions are integrated into the meeting times throughout the semester. Prerequisites: EXERSCI 255 - Functional Anatomy with a C or better and PHYSICS 201 - Introductory Physics 1 with a D or better. | LEC | 3 | 3 |
| EXERSCI | 360 | SPORT NUTRITION | Provides students with the knowledge to address the role of nutrition in response to acute and chronic exercise. Learning topics will include nutrition for fitness and sport; human energy metabolism during acute exercise and exercise training; vitamin and mineral balance and exercise; and fluid and electrolyte balance during exercise. Three hours of lecture per week. May be offered in traditional and distance education formats. Prerequisites: C or better in BIOLOGY.205. | LEC | 3 | 3 |

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| EXERSCI | 378 | EXERCISE PHYSIO I | Explores the function of how the body responds to the stress of acute and chronic physical activity and exercise. Concepts relating to energy metabolism, neuromuscular, circulatory and cardiorespiratory physiology are addressed in both lecture and laboratory experiences which include theoretical and practical applications to exercise. This course is intended to develop a student's understanding of how exercise impacts a number of bodily systems. Three hours of lecture per week and two hours of lab every other week. Prerequisites: Exercise Science Majors Only; Must have a C or better in BIOLOGY.173; Must have a C or better in BIOLOGY.174; CHEM.101. | LAB | 4 | 4 |
| EXERSCI | 378 | EXERCISE PHYSIO I | Explores the function of how the body responds to the stress of acute and chronic physical activity and exercise. Concepts relating to energy metabolism, neuromuscular, circulatory and cardiorespiratory physiology are addressed in both lecture and laboratory experiences which include theoretical and practical applications to exercise. This course is intended to develop a student's understanding of how exercise impacts a number of bodily systems. Three hours of lecture per week and two hours of lab every other week. Prerequisites: Exercise Science Majors Only; Must have a C or better in BIOLOGY.173; Must have a C or better in BIOLOGY.174; CHEM.101. | LEC | 4 | 4 |
| EXERSCI | 380 | RES METHODS EX SCI | Introduces fundamental concepts of the methods, design, analysis and interpretation of research in the field of exercise science. Emphasis will be placed on comparing different research methods, statistical analysis techniques, and interpretation of data as they relate to various topics in exercise science, as well as developing competency in the use of available statistical software packages. The course is intended to prepare the student to be a critical consumer of new information and emerging trends in exercise science, as well as to understand and use research techniques in later career pursuits. May be offered online. Prerequisites: 60 earned credit hours. | LEC | 3 | 3 |
| EXERSCI | 397 | EXERCISE AND AGING | Provides a theoretical and practical basis for exercise as a modifier of age-related physiological and psychological changes. This course will prepare students to assess the physical function of older adults and design an exercise program to prevent and care for physical limitations associated with aging. In addition, common age-related medical conditions and their interventions will be reviewed. Prerequisites: BIOLOGY.174 - Anatomy and Physiology 2. | LEC | 3 | 3 |
| EXERSCI | 414 | EXER FOR SPECIAL POP | Provides students with a basic overview of theoretical, scientific and applied perspectives of exercise prescriptions of special populations. Practical experience, physical fitness programs and modified fitness programs will be introduced and incorporated in working with special populations. Prerequisites: EXERSCI 378. | LEC | 3 | 3 |
| EXERSCI | 477 | EXERCISE PRESCRIPT | Emphasizes the academic and technical knowledge necessary to conduct health and fitness programs in public and private agencies. Students are prepared to assume leadership and management positions within the health and fitness industries. Prerequisite: EXERSCI.378. | LEC | 3 | 3 |
| EXERSCI | 478 | EXER PHYSIOLOGY II | Builds directly on concepts learned in EXERSCI 378. This course emphasizes the understanding of physiologic principles related to healthy and diseased individuals, as well as the physiology of human performance. In addition, how exercise in different environmental conditions can impact physical performance. Prerequisite: A grade of "C" or better in EXERSCI.378 - Exercise Physiology I. | LEC | 3 | 3 |
| EXERSCI | 500 | INSTRUMENT LAB TECH | Provides experiences in the use of conventional technology and procedures in the measurement and assessment of physiological functioning and the maintenance and calibration of such equipment. | LEC | 3 | 3 |

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| EXERSCI | 576 | EXER PHYSIOLOGY 2 | Provides a continuation of basic and advanced exercise physiology principles. Focuses on the respiratory system, cardiovascular dynamics, aging, and environmental effects on physical performance. Prerequisites: C or better in EXERSCI 575 - Exercise Physiology I. | LEC | 3 | 3 |
| EXERSCI | 577 | EX PGM DESIGN | Provides an in-depth study of various types of training programs, including the development of strength, power, endurance, agility, and speed. Specific emphasis will be placed on the application and integration of a variety of training methods to elicit adaptations based on an individual's needs analysis. Current legal, professional, and managerial issues relevant to the industry will also be discussed. Prerequisites: Admission to the M.S. in Exercise Science program. | LEC | 3 | 3 |
| FINANCE | 120 | PERSONAL FINANCE DEC | Presents information that students will find useful financially when they move through life, regardless of their career choices. The general topics covered are personal financial planning, socially responsible investing, consumer credit and protection, insurance (health, disability, liability, home, and automobile), investing principles and ethics, sources of capital, and retirement planning as they impact individuals and small business owners. The course emphasizes the link between personal financial decision making and responsibility citizenship. This course earns one GEP toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| FINANCE | 313 | INTRO TO FINANCE | This course covers introductory topics in the areas of corporate finance, investments, international finance, and financial institutions. The primary emphasis is on corporate finance. Topics in the corporate area include the time value of money, capital budgeting, working capital management, financial statement analysis, cost of capital, and capital structure. Investments topics include risk and return, valuation of securities, and financial markets and environments. This course is required for all business majors. May be offered in traditional and distance education formats. Prerequisites: ECONOMIC.121 and ECONOMIC.122 and (MATH 141 or ECONOMIC 256) and (ACCT 220 or ACCT 222) and (ECONOMIC 156 or MATH 123 or MATH.125). | LEC | 3 | 3 |
| FINANCE | 320 | REAL ESTATE FIN | This course provides the theoretical framework and financial analysis necessary for investment decisions in commercial real estate assets. Students will use the concepts and techniques of investment to analyze real estate investment situations and make suitable decisions in the context of a standard capital budgeting framework. The class includes some highly quantitative analysis methods. The delivery will be in an on-site lecture format. Prerequisite: FIN 317 Principles of Real Estate. | LEC | 3 | 3 |
| FINANCE | 323 | FIN MARKETS & INSTIT | Studies short-term money market and long-term capital market instruments, major financial institutions, the relationship between interest rates and security prices and the role of the consumer and government in financial markets. Three lecture hours per week. May be offered in traditional or distance education formats. Prerequisite: FINANCE.313. | LEC | 3 | 3 |
| FINANCE | 343 | INVESTMENT MANAGMENT | Outlines principles of security investments including descriptions of investment instruments, investment planning, security valuation, portfolio theory and strategy and security markets. Three lecture hours per week. Prerequisite: FINANCE.313. | LEC | 3 | 3 |
| FINANCE | 402 | RETIREMENT PLANNING | Provides a comprehensive overview of personal and employee-sponsored plans. An appreciation of the usefulness of employee benefits and the ability to counsel others on important retirement and employee benefit decisions will be sought. Corporate pension and profit sharing plans, self-employed Keogh plans, IRAs, annuities, health insurance, and social security will be discussed. Prerequisite: FINANCE 401 - Personal Financial Planning. | LEC | 3 | 3 |

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| FINANCE | 405 | ESTATE PLANNING | Develops students' comprehensive understanding of the estate planning process. The course will cover the basic concept of estate planning and different types of property interests. The students will learn broad estate planning by further discussions on topics of probate process, tax strategies, trusts, deductions, and charitable giving. Life insurance in estate planning and generation-skipping transfers will also be discussed in the course. Three hours lecture per week. Course may be offered in traditional and distance education formats. Prerequisites: FINANCE 401. | LEC | 3 | 3 |
| FINANCE | 413 | INTERNATIONL FINANCE | Develops students' comprehensive understanding of the principles and practices relevant to the nature of international finance, its problems and its institutions. Discussion centers on sources and instruments of international export and import financing, balance-of-payments, exchange rates, governmental regulations and policies, financial management, as well as accounting for international transactions. Three lecture hours per week. May be offered in traditional and distance learning formats. Prerequisite: FINANCE.313. | LEC | 3 | 3 |
| FINANCE | 433 | FINANCIAL RISK & ERM | Provides a comprehensive overview of the principles of 1) risk identification, assessment, and quantification; 2) risk management and mitigation as applied to financial and nonfinancial entities; and 3) developing a focused approach to integrating an enterprise risk management (ERM) program into companies using frameworks for managing strategic, operational, market, model, and credit risk exposures. The course will help build an understanding of the latest risk analytics, corporate governance policies, regulatory tools, and compliance-driven practices. The aim of the course is to learn how to effectively implement an ERM program in order to mitigate various types of risks, effectively allocate capital, and evaluate risk-adjusted performance that maximizes stakeholder value for the firm. Prerequisites: FINANCE 313 - Introduction to Finance or the permission of the instructor. | LEC | 3 | 3 |
| FINANCE | 440 | INTRO OPTIONS & FUT | Detailed analysis of major elements affecting market prices of options and futures contracts and analysis of optimal investment strategies involving these derivative instruments. Three lecture hours per week. Prerequisite: FINANCE.343. | LEC | 3 | 3 |
| FINANCE | 454 | ADV CORPORATE FINANC | Studies business financial problems and the development of financial decision-making tools and practices as used in the decision-making role of the financial manager. Three lecture hours per week. Prerequisite: FINANCE.313. | LEC | 3 | 3 |
| FINANCE | 535 | FINANCIAL MANAGEMENT | In-depth study of management activities involved in the financial aspects of business enterprise. Theoretical knowledge gained through exposure to financial management literature is applied to problem situations through the use of case studies and simulation techniques. Emphasis is placed on the development of perspective in the decision-making process with the acquisition of tools to facilitate effective decision making. Three lecture hours per week. Prerequisites: ACCT.524, MGMT.511 | LEC | 3 | 3 |
| FINANCE | 535 | FINANCIAL MANAGEMENT | In-depth study of management activities involved in the financial aspects of business enterprise. Theoretical knowledge gained through exposure to financial management literature is applied to problem situations through the use of case studies and simulation techniques. Emphasis is placed on the development of perspective in the decision-making process with the acquisition of tools to facilitate effective decision making. Three lecture hours per week. Prerequisites: ACCT.524, MGMT.511 | LEC | 3 | 3 |
| FRENCH | 101 | FRENCH 1 | | LEC | 3 | 3 |

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| FRENCH | 102 | FRENCH 2 | Develops further the four language skills: speaking, listening, reading, and writing to a proficiency level regarded as basic communication in French. FRENCH.102 is for students who wish to continue studying French at the second level. French language study is taught in its cultural context, including history, culture, diversity, and comparison with students' native culture. Practice in language laboratory and/or use of electronic language-learning media is required. FRENCH.102 is offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 8 Second Language in general education. Three hours lecture per week. Prerequisite: FRENCH.101 or equivalent proficiency level. This course is generally appropriate for students with one or two years of high-school French. | LEC | 3 | 3 |
| FRENCH | 204 | INTM FRENCH FRANCOPH | Develops the four language skills: speaking, reading, writing and listening. This course complements FRENCH 203 by expanding linguistic skills while enriching cultural understanding of the French speaking world. Basic grammar is reviewed and new grammatical concepts are presented. Contemporary culture in French-speaking countries is given additional emphasis. Students studying French should begin to synthesize their acquired linguistic and cultural knowledge toward an understanding of their native language and culture. This course is also designed to help prepare those students who would like to visit or study abroad in a French-speaking country. The three hours lecture per week and assignments employ a variety of learning activities. FRENCH 204 is a required course for the major and minor in Languages and Cultures: French, but is open to all students. It satisfies General Education Requirements: 2 GEPs for Goal 1 - Communication and 1 GEP for Goal 7 - Arts and Humanities. This course is offered once per year. Prerequisites: FRENCH 102 (French 2), or placement through the French Language Placement test, or permission of the instructor. | LEC | 3 | 3 |
| FRENCH | 401 | ADVANCED FRENCH LANG | Presents a thorough review of phonology, morphology, syntax and semantics. Practical application in advanced speaking including activities with development of cultural proficiency. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Not offered every semester. Prerequisite: FRENCH 203 or FRENCH 204 in combination with any 200 or 300 level FRENCH course (except for FRENCH 211 or 212), or equivalent course, or corresponding placement through the French Language Placement Test. | LEC | 3 | 3 |
| GENTRANS | 401 | MEDICAL IMAGING CLIN | | CLN | 0 | 0 |
| GENTRANS | 402 | MED TECH CLINICAL | | CLN | 0 | 0 |
| GENTRANS | 404 | GEISINGER MED IMAGE | | CLN | 0 | 0 |
| GENTRANS | 409 | EXCHANGE PROGRAM | | LEC | 0 | 0 |
| GENTRANS | 410 | STUDY ABROAD | | LEC | 0 | 0 |
| GERMAN | 102 | GERMAN 2 | Develops further the four language skills: speaking, listening, reading, and writing to a proficiency level regarded as basic communication in German. GERMAN.102 is for students who wish to continue studying German at the second level. German language study is taught in its cultural context, including history, culture, diversity, and comparison with students' native culture. Practice in language laboratory and/or use of electronic language-learning media is required. GERMAN.102 is offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 8 Second Language in general education. Three hours lecture per week. Prerequisite: GERMAN.101 or equivalent proficiency level. This course is generally appropriate for students with two or three years of high-school German. | LEC | 3 | 3 |

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| HISTORY | 121 | US HIST COL TO 1877 | Explores the founding and growth of the American Republic from the Pre-Columbian era to the end of Reconstruction (1877) in the North American colonies and the United States. Major topics include: the peoples and societies of early America; the American Revolution and early republic; national growth and expansion, sectional conflict; Civil War; and Reconstruction. Three hours per week. Open to all students. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: None. | LEC | 3 | 3 |
| HISTORY | 122 | US HIST 1877 PRES | Explores the history of the United States from the end of Reconstruction to the present. Students will gain an understanding and appreciation of the historical significance of this time period in American history. Major topics include: The American West, the rise of urban-industrial America, reform traditions, the emergence of the United States as a world power, and American foreign and domestic affairs. Three hours per week. Open to all students. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: None. | LEC | 3 | 3 |
| HISTORY | 125 | EUROPEAN HIST TO 1650 | Surveys the development of Western Civilization from river-valley societies to the end of the early modern period (c.4000 BCE-1650 CE). Open to all students. Prerequisites: None. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Three hours of lecture per week. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| HISTORY | 126 | EUROPEAN HIST SINCE 1650 | Open to all students. Prerequisites: None. This course earns three GEPs toward Goal 4 (Cultures and Diversity) in general education, and fulfills requirements for the History major and minor. Three hours of lecture per week. | LEC | 3 | 3 |
| HISTORY | 132 | ASIAN CIV SINCE 1500 | Surveys the major civilizations of Asia from the sixteenth to the twentieth century. This course examines inter-Asian relations and the developing political, economic, and cultural relations between the West and Asia through the twentieth century, presenting an overview of the different Asian paths to independence during the twentieth century. Three hours of lecture per week. Open to all students. This course fulfills requirements for the History major and minor and earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: None. | LEC | 3 | 3 |
| HISTORY | 146 | MUSLM WLD SINCE 1405 | Surveys the development of the Muslim World (primarily the Middle East, North Africa and the Iranian plateau) from the fifteenth to the twenty-first century. Open to all students. This course applies to General Education Goal 4, and fulfills requirements for the History major and minor. Prerequisites: None. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Three Hours Lecture Per week. | LEC | 3 | 3 |
| HISTORY | 228 | AFRO-AMERICAN HIST | Examines the nature and meaning of the African-American experience in the United States surveyed from its African beginnings to the present. Reviews black creative expressions in the visual arts, music, literature, philosophic thought and social history. Addresses questions such as: Why did slavery emerge in colonial America? How did free African Americans and slaves shape the American colonies and affect American Revolution? Why was the South so dependent on slavery that southerners were willing to secede from the Union to preserve it? What was Reconstruction? Why did segregation and Jim Crow laws emerge? How did race shape the black experience with the Great Depression or World War II? What was the Civil Rights movement? This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisites: None. | LEC | 3 | 3 |

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| HISTORY | 270 | HOLLYWOOD AND HISTORY | Examines and analyzes how the past is translated into a cultural artifact. Through comparative analysis of films and/or documentaries and historical source materials, students will examine how film as a medium structures the presentation of the past, and how this medium shapes public memories of historical events and individuals. The themes in films and documentaries will be determined by the faculty member teaching the course. Three hours of discussion, lecture and film viewing per week. This course applies to General Education Goals 3 and 7. General Education Goal 3 (Analytical and Quantitative): 2 GEP's; and General Education Goal 7 (Arts and Humanities): 1 GEP. This course may be repeated by taking sections on different themes; each section with a different theme that a student completes carries three credits. However, the GEPs for this course will be earned only once. Prerequisites: Foundations of College Writing. | LEC | 3 | 3 |
| HISTORY | 327 | TOTAL WAR EUROPE | | SEM | 3 | 3 |
| HISTORY | 388 | PENNSYLVANIA | Examines major contributions of Pennsylvania to national life, relations between state and national movements. This course counts as a Group A, Humanities and The Arts General Education Requirements. Not offered every semester. Three hours lecture per week. | SEM | 3 | 3 |
| HISTORY | 404 | TOPICS AMERICAN HIST | Seminar allows students to focus on a specific topic or related topics in American history for in-depth study and analysis. Includes historiography of the chosen topic, discussion of problems associated with the topic and production of a research paper. Topics vary from semester to semester. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. | SEM | 3 | 3 |
| HISTORY | 458 | LATE OTTOMAN EMPIRE | Provides an historical understanding of different aspects of the Modern Ottoman Empire, which controlled most of the region that is today known as the Balkans, the Middle East, and North Africa. Through a close reading of several monographs on the political, economic, social, and cultural history of the Ottoman Empire, this course examines the role of this influential empire in the Mediterranean World. Furthermore, it relates the problematic transformations within the Empire to the nationalist and religious conflicts in the Balkans and the Middle East in the 20th and 21st centuries. This course counts as a Group A, Humanities and The Arts General Education Requirements/ This course is approved as a Diversity General Education Course. Three hours lecture per week. Prerequisites: None. | SEM | 3 | 3 |
| HISTORY | 494 | RESEAR & WRIT SKILLS | Focuses on the development of proficient research and writing skills. Students learn to fully utilize library and research facilities; develop skills in analyzing and interpreting original/primary research documents; and produce a clear, concise and well-written lengthy formal paper. In addition, students develop an understanding of how and why history is written and revised. This course earns one GEP toward Goal 1 Communication and one GEP toward Goal 2 Information Literacy and one GEP toward Goal 6 Social Sciences in general education. Three hours lecture/ discussion per week. Required for history majors and open to other students who fulfill the prerequisite requirements. Prerequisites: HISTORY.298 with a "C" or better. | SEM | 3 | 3 |
| HONORS | 103 | HONORS PUB SPEAKING | Focuses on the development and application of oral and written communication skills. Students will gain an understanding of effective speaking skills in a variety of professional and civic contexts and learn how to select and evaluate the best techniques for communicating a position. All students will submit at least one artifact to their Honors ePortfolio. Open to Honors students and others at the discretion of the Honors Program. Students may not receive credit for both this course and COMMSTUD.103: Public Speaking. Offered on a yearly basis. This course earns three GEPs toward Goal 1 Communication in general education. Prerequisites: Admittance to the Honors Program. | LEC | 3 | 3 |

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| HONORS | 115 | HON LIB ARTS SEM | Introduces students to an interdisciplinary of topical content with the Honors and liberal arts focus and provides composition and research instruction to facilitate students' success at the postsecondary level. Provides discussion and practice of composition as a process (drafting, revision, editing); Engages students in critical reading; and introduces effective research strategies and the use of source materials. Fosters cultural awareness and involves an out-of-class component. Individual sections are required to complete a research-based capstone project to demonstrate having achieved the student-learning objectives for the course. Students will compile and submit an ePortfolio to the Honors program. Open to Honors students and others at the discretion of the Honors Program. Typically offered twice a year. Prerequisites: Admission to the Honors Program or permission of Honors Director. | LEC | 3 | 3 |
| HONORS | 141 | HONORS STATISTICS | Provides an introduction to descriptive and inferential statistics. Topics covered include numerical and graphical summary procedures, basic probability concepts, random variables and distributions, the Central Limit Theorem, confidence intervals, and hypothesis testing. Topics are treated in greater depth than in MATH.141 (Introduction to Statistics). This is done in two ways: homework problems assigned regularly deal with problems of greater complexity; and two to four projects are assigned during the semester. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education. Three hours lecture per week. Prerequisites: High School Algebra. | LEC | 3 | 3 |
| HONORS | 175 | TRAINING BODY AND MIND | Guides students through their personal development as they prepare for the physical and mental challenges ahead. Students will study the effects of exercise on the body and their significance to lifelong health and well-being. Emphasis will be placed on the necessity for healthy nutrition to support physical activity and further contribute to health-fitness. The knowledge will be applied through laboratory activities to measure and track physical fitness as students explore various options for a physically active lifestyle. A particular focus will be how physical activity affects the mind, contributing to mental health and academic performance. The current literature in this realm will be searched and discussed. A culminating class research project will be based on critical analysis and student interest in this area. All students will submit at least one artifact to their Honors ePortfolio. Open to Honors students and others at the discretion of the Honors Program. Prerequisites: Enrollment in or permission of the Honors Program. | LEC | 3 | 3 |
| HONORS | 211 | HONORS PRINS OF SOC | Introduces the basic concepts, perspectives, theories, and methods in sociology. The course is designed as an accelerated and enhanced learning experience for honors students. Course content will be delivered by lecture and discussion format. Students will take exams and complete written assignments. The class meets three hours per week. All students will submit at least one artifact to their Honors ePortfolio. Open to Honors students and others at the discretion of the Honors Program. This course earns three GEPs toward Goal 6 Social Sciences in general education. Prerequisites: Admission to the Honors Program. Offered on a yearly basis. | LEC | 3 | 3 |
| INSTTECH | 228 | INTERACTIVE EXP | Examines the guidelines and best practices for creating immersive and interactive experiences with a focus on learning outcomes. This course will explore learner-centered design approaches for crafting immersive and interactive experiences that can be incorporated into a variety of learning and training solutions. Facets of immersive and interactive design explored in this course include the concepts of agency and autonomy, transmedia storytelling, mixed reality experiences, and the role of technology in creating an immersive experience. This course is required for students minoring in immersive and interactive technology, and an elective for students interested in the subject. Prerequisites: None. | LEC | 3 | 3 |

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| INSTTECH | 450 | INSTRUCTIONAL DESIGN | Examines the systems approach for the design, development, and evaluation of instruction and training materials. Students use an instructional design process to create a training prototype. Components of this project include a needs assessment, instructional analysis, objectives, instructional strategies, and the development of a teacher's guide and student materials. Specific emphasis is given to applying instructional design techniques to the design and development of instructional products. This course earns three GEPs toward Goal 1 Communication in general education. May be offered in traditional and distance education formats. Prerequisites: Completion of 60 credits. | LEC | 3 | 3 |
| INSTTECH | 460 | MULTIMEDIA PROD | Examines the guidelines and techniques for the development of instructional multimedia as well as research and theories of multimedia design. Students work with a variety of multimedia development tools to create multimedia elements. Aspects of multimedia explored within this course include visual design, multimedia presentation production, digital audio production, digital image production, digital video production, and copyright guidelines. Specific emphasis is given to the design, development, and application of various multimedia elements. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| INSTTECH | 467 | TECH LEAD CAPSTONE | Explores topics such as leadership styles, change and conflict management, training programs, program proposals, and internal consulting. Activities will help students relate these concepts to workplace demands and present current issues in technical leadership. In this course, student teams will work to create a team-based capstone project that will be presented to an Advisory Board of technical professionals. Prerequisites: Technical Leadership majors only and senior status or permission of instructor. | LEC | 3 | 3 |
| INSTTECH | 470 | INTRO TO WEBSITE DEV | Provides a comprehensive overview of the technologies, processes and issues encountered by front-end web developers in web projects. The current front-end web languages, HTML, CSS, and JavaScript will be used to create web sites, and industry-standard web editors will be introduced. The Web development process is applied and issues related to web development will be explored. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| INSTTECH | 472 | INTRO TO AUTHORING | Acquaints students with authoring tools used to develop training applications that may be implemented online and/or by way of mobile devices. Authoring software will be used to develop interactive simulations and training module frameworks. All elements of course work are reviewed and developed with emphasis on good design, programming techniques, and learner effort. Writing code for specific applications or deployment is not a requirement or any part of this course. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| INSTTECH | 485 | E-LEARN CONCEPTS | Examines the guidelines and techniques for the development of eLearning solutions as well as research and theories of eLearning design. Students work with a variety of online course development tools to create eLearning solutions. Aspects of eLearning design explored within this course include techniques for successful online learning, incorporation of eLearning into an organization, types of eLearning (blended, social, synchronous, mobile, game-based, and microlearning), and best practices for designing eLearning solutions. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| INSTTECH | 540 | TECH PLANNING CURRIC | Examines a systematic process for the selection, use, and evaluation of technology within the curriculum. Students develop strategies and explore methods to implement educational technology plans at the classroom, building, and district levels. Consideration is given to a number of issues that affect the procurement and use of technology in schools. Students learn the roles and responsibilities of becoming a technology director, technology coach, instructional technology specialist, or other related position within an educational environment. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |

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| INSTTECH | 550 | INSTRUCTIONAL DESIGN | Examines the systems approach for the design, development, and evaluation of instruction and training materials. Students use an instructional design process to create a training prototype. Components of this project include a needs assessment, instructional analysis, objectives, instructional strategies, and the development of a teacher's guide and student materials. Specific emphasis is given to applying instructional design techniques to the design and development of instructional products. May be offered in traditional and distance education formats. Prerequisites: Graduate Standing. | LEC | 3 | 3 |
| INSTTECH | 551 | ADV INSTRUCT DESIGN | Serves as a sequel to INSTTECH.550 Instructional Design by providing additional information and practice concerning the design of effective instruction. Course goes beyond the introductory course by elaborating on the design of instructional strategies for specific learning outcomes, techniques for writing effective test items, and procedures for formative and summative evaluation. In addition, the course emphasizes learning theory, cognitive and behavioral approaches to instruction, comparison of instructional design models and research evidence that supports instructional design practices. Three hours lecture per week. Prerequisites: INSTTECH.550 or permission of Instructor. | LEC | 3 | 3 |
| INSTTECH | 560 | MULTIMEDIA PROD | Examines the guidelines and techniques for the development of instructional multimedia as well as research and theories of multimedia design. Students work with a variety of multimedia development tools to create multimedia elements. Aspects of multimedia explored within this course include visual design, multimedia presentation production, digital audio production, digital image production, digital video production, and copyright guidelines. Specific emphasis is given to the design, development, and application of various multimedia elements. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| INSTTECH | 570 | INTRO TO WEBSITE DEV | Provides a comprehensive overview of the technologies, processes and issues encountered by front-end web developers in web projects. The current front-end web languages, HTML, CSS, and JavaScript will be used to create web sites, and industry-standard web editors will be introduced. The Web development process is applied and issues related to web development will be explored. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| INSTTECH | 572 | INTRO TO AUTHORING | Acquaints students with authoring tools used to develop training applications that may be implemented online and/or by way of mobile devices. Authoring software will be used to develop interactive simulations and training module frameworks. All elements of course work are reviewed and developed with emphasis on good design, programming techniques, and learner effort. Writing code for specific applications or deployment is not a requirement or any part of this course. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| INSTTECH | 575 | MANAGING eLEARN PROJ | Provides a project design experience in the Instructional Technology curriculum. Students work on a team to apply concepts and skills learned in previous courses to simulate a hypothetical business environment where they must respond to a mock request for a proposal in the field of eLearning. Student teams use a systems approach to design, develop, and propose a comprehensive interactive eLearning project complete with budget and prototype. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites or Corequisites: INSTTECH.551. | LEC | 3 | 3 |
| INSTTECH | 577 | ADVANCED AUTHORING | Provides an in-depth look at advanced topics in multimedia authoring. Advanced authoring software, such as Authorware and Director, will be used to develop applications that require the use of external data and complex scripting techniques. Applications for training are a special focus of the course. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisite: INSTTECH.572 or instructor approval. | LEC | 3 | 3 |

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| INSTTECH | 579 | INST GAME DESIGN | Examines the theory and practice of instructional game design from the perspective of creating learning games to teach and reinforce content. Students conduct a needs analysis, produce design documents, produce prototypes, acquire sign offs on the project, and produce an instructional game. Students also evaluate the efficacy of several different types of games designed to promote learning. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| INSTTECH | 584 | ONLINE COURSE DESIGN | Examines the guidelines and techniques for the development of an online course as well as research and theories in the field of eLearning. Students work with a variety of online course development tools to create an asynchronous course, synchronous presentation, and discussion forum. Aspects of online course design explored within this course include course design guidelines, best practices for teaching online, online delivery tools and systems, and building learning communities. Three hours lecture per week. Prerequisite: None. | LEC | 3 | 3 |
| INSTTECH | 585 | E-LEARN CONCEPT | Examines the guidelines and techniques for the development of eLearning solutions as well as research and theories of eLearning design. Students work with a variety of online course development tools to create eLearning solutions. Aspects of eLearning design explored within this course include techniques for successful online learning, incorporation of eLearning into an organization, types of eLearning (blended, social, synchronous, mobile, game-based, and microlearning), and best practices for designing eLearning solutions. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| INTSTUDY | 100 | UNIVERSITY SEMINAR | Promotes a successful transition to college life for new freshmen through the presentation of critical information about the university's academic program. | SEM | 1 | 1 |
| INTSTUDY | 108 | FORENSICS PRACTICUM | Provides students with the opportunity to learn various forms of debate, public speaking, and dramatic interpretation of literature. The ultimate goal of forensics participation is to help students become better communicators and to think critically. The Forensics Practicum will provide students with a valuable practical experience in a co-curricular activity that will assist any major in speaking situations. This will be accomplished through participation in competitive intercollegiate speech and debate tournaments. Grade awarded each semester. May be repeated. Prerequisites: None. | LEC | 1 | 1 |
| INTSTUDY | 110 | LIBERAL ARTS SEMINAR | Introduces students to an interdisciplinary study of topical content with a liberal arts focus and provides composition and research instruction to facilitate students' success at the postsecondary level. Provides discussion and practice of composition as a process (drafting, revision, editing); engages students in critical reading; and introduces effective research strategies and the use of source materials. Individual sections are required to complete a research-based capstone project to demonstrate having achieved the student-learning objectives for the course. Offered every semester. This course earns one GEPs toward Goal 1 Communication and two GEPs toward Goal 2 Information Literacy in general education. Prerequisites: Eligibility to take English 101; Enrollment restricted to students with no more than 65 hours of credits, or permission of the instructor. | LEC | 3 | 3 |
| INTSTUDY | 120 | ANTIRACISM | Introduces an interdisciplinary approach to historical and current issues of race and racism in the United States using anti-Black racism as a framework for understanding. Students critically examine their personal views about race and consider ways to promote racial equity and community engagement. This foundational course is intended for first-year students, but open to all students. Completion of this course earns 1 GEP toward Goal 4 (Culture & Diversity) and 2 GEPs toward Goal 10 (Citizenship). Prerequisites: NONE | LEC | 3 | 3 |

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| INTSTUDY | 204 | INTRO RSCH WRITING | Provides an introduction to research writing, with emphasis on: developing a thoughtful, focused research topic; locating, classifying, and evaluating sources; analyzing, synthesizing, and organizing concepts and information; documenting sources ethically; and demonstrating effective written communication of concepts and information. No final exam. Intended for students of all majors; however, particular sections may focus on particular disciplines or topics, and may be restricted to students in a particular major; students are advised to locate descriptions of particular sections. Typically offered every semester. May be offered in traditional and distance education formats. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 2 Information Literacy in general education. Three hours lecture per week. Prerequisites: ENGLISH.101 and 30 credits. | LEC | 3 | 3 |
| INTSTUDY | 231 | TECHNICAL WRITING | Examines the significance of writing in discipline-specific genres using multiple media to produce documents that are rhetorically astute and ethically appropriate. The ability to develop and manage information in the 21st century, is a central component of the course. This will be accomplished through lecture, course discussion, and group based projects that require both writing and software skills relevant in our current professional climate. This course will be offered during fall and spring semesters, as well as be offered during the winter term and summer sessions. | LEC | 3 | 3 |
| INTSTUDY | 300 | PRE-MED SEMINAR | Guides students in preparing for application to schools in the medical professions, including allopathic and osteopathic medical schools, dental school, chiropractic school, veterinary school, optometry school, and podiatry school. Students will prepare application materials, such as a resume and personal statement, and discuss topics pertinent to the application. This class is offered annually, in the spring semester. One hour of lecture per week. Prerequisites: at least 60 credits earned. | LEC | 1 | 1 |
| IT | 512 | WEB MOBILE APP DEV | Provides an introduction to the art and practice of mobile application development for popular mobile platforms such as Android and Apple iOS. Students will use the software development kit (SDK) to create programs including how to craft Graphical User Interfaces (GUIs), create location-based applications, and access web services. Prerequisite: ITM 510, Graduate standing or a minimum of 90 credits in undergraduate courses and approval of Graduate Dean. May be offered in traditional and distance education formats. | LEC | 3 | 3 |
| IT | 522 | DATA SCI BUS STRATS | Combines technical and statistical skills, analytical thinking, and business acumen to extract actionable knowledge from data so that managers can formulate strategy and make knowledgeable decisions and preserve privacy of data. Develops data science strategic knowledge and skills through analysis of multidimensional data modeling, online analytic processing, data warehousing, and data mining. This course is suitable as an elective for graduate students interested in data science for business strategies. May be offered in traditional and distance education formats. Prerequisites: ITM.592, Graduate standing or a minimum of 90 credits in undergraduate courses and approval of Graduate Dean. | LEC | 3 | 3 |
| IT | 550 | E-BUSINESS TECH | Emphasizes technical skills, analytical thinking, business acumen, cultural and accessibility sensitivity, information technology security, web and application development for understanding and applying e-Business technologies. This course also investigates the challenges facing business and information technology professionals developing e-business in countries around the world. This course is suitable as an elective for graduate students interested in e-Business. May be offered in traditional and distance education formats. Prerequisites: Graduate standing or a minimum of 90 credits in undergraduate courses and approval of Graduate Dean. | LEC | 3 | 3 |

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| IT | 570 | INNOVATION PROJECTS | Introduces the fundamental and advance concepts and techniques for problem solving, innovation and project management. Covers management processes, methods, technology tools for problem solving, linking strategy to innovation, understanding and building organizations' capabilities to Innovate, and managing the innovative project. This course is designed as a capstone course as it includes case analyses and projects throughout the semester to supplement the student learning objectives. May be offered in traditional and distance education formats. Prerequisites: ITM.522, Graduate standing or a minimum of 90 credits in undergraduate courses and approval of Graduate Dean. May be offered in traditional and distance education formats. | LEC | 3 | 3 |
| ITA | 175 | SPREADSHEET ANALYSIS | Presents an overview of information concepts through a variety of quantitative problem solving experiences using spreadsheet and database programs. Introductory business and statistical models are examined, as students identify appropriate ways to find, evaluate, and ethically use information in aid of decision-making. Examples may include budgeting, surveys, descriptive statistics, simple regression and correlation models, time value of money problems, and order entry and inventory models. This course is a core course for business students and may be taken by students in any discipline for general education points. This course earns two GEPs toward Goal 2 Information Literacy and one GEP toward Goal 3 Quantitative Reasoning in general education. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| ITA | 301 | IT & ANALYTICS | Emphasizes technical skills and analytical thinking for understanding and applying business technologies. This course also explores current information technology (IT) trends, issues, and challenges facing business and information technology professionals around the world. Prerequisites: 30 earned credits or instructor approval. | LEC | 3 | 3 |
| ITA | 302 | BUSINESS APPS DEV | Introduces the procedural design and development concepts of business applications and basic object-oriented programming. Both procedural and object-oriented programming will be covered utilizing Visual Basic (VBA) and several puzzle visual environments. This course is required for Information and Technology Management Major and Minor. It is also suitable as an elective for undergraduate students interested in business or mobile application development. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: Minimum of 30 credit hours due to the degree of analysis and the expectation of performance or instructor approval. | LEC | 3 | 3 |
| ITA | 310 | DATA MGMT BUSINESS | Introduces the management of structured data, semi-structured data, unstructured data, and Big Data assets in the business environment using emerging technologies and methods. The course explores modeling, designing, implementing, and application development with database management systems. This course is required for Information and Technology Management Major and Minor. It is also suitable as an elective for undergraduate students interested in database management. May be offered in traditional and distance education formats. Prerequisites: ITM 175 or Instructor Approval. | LEC | 3 | 3 |

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| ITA | 322 | PJT MGT | Introduces the concepts and techniques of project management: applications include information systems, healthcare, finance, and business projects. Covers project management processes, methods, tools, success factors and successful team building strategies as well as the phases of project management: project initiation, planning, executing, monitoring and controlling, and project closure. The course follows the principles set forth by the project management body of knowledge (PMBOK) as defined by the Project Management Institute (PMI). Project Management is designed for students in junior or senior standing and includes case analyses and projects throughout the semester to supplement the student learning objectives. Project management is a required course in the ITM Major and in the Bachelor of Applied Science Technology Leadership program. May be offered in traditional and distance education formats. Prerequisites: ITM.175 and MGMT.244 or permission from instructor. Three lecture hours per week. | LEC | 3 | 3 |
| ITA | 325 | ANALYTICS | Examines analytics techniques to transform data into insights. The design, implementation, application, and evaluation of analytics techniques are applied to business opportunities using emerging technology tools. This course is required for Information and Technology Management Majors and Minors. It is also suitable as an elective for undergraduate students interested in analytics. May be offered in traditional and distance education formats. Prerequisites: ECONOMIC 256 or instructor approval. | LEC | 3 | 3 |
| ITA | 372 | INTER-ORG ERP | Introduces the concepts and techniques of Inter-Organizational Enterprise Systems. Covers Enterprise Resource Systems (ERP) basics, Business Process Redesign (BPR), and business processes for functional business areas such as purchasing and receiving, sales and marketing, production, operations management, inventory management, and financial management. Inter-Organizational Enterprise Systems is designed for students in junior or senior standing and includes case analyses and projects throughout the semester to achieve the student learning objectives. May be offered in traditional and distance education formats. Three lecture hours per week. Prerequisites include ITM.301, MGMT.244 and MKTG.310, or permission from instructor. | LEC | 3 | 3 |
| ITA | 407 | HTIM | Provides a broad and comprehensive overview and offers specific background relating to various approaches in assessing, analyzing, designing, implementing and evaluating technology applications and ergonomics. The dynamics of human and technology interaction management are examined with a blend of theory and practice. May be offered in traditional and distance education formats. Three lecture hours per week. Prerequisites: 75 or more credits. | LEC | 3 | 3 |
| ITA | 415 | DATA-DRIVEN WEB ANALY | Analyzes current practices, trends, and innovations in the interface between business websites and business application databases. Explores data-driven design principles for the creation of enterprise data collection to support both business operations and analytics. Prerequisites: ITM 310 - Data Mgmt Essential for Business or permission of the instructor. | LEC | 3 | 3 |
| ITA | 418 | GLOBAL SECURITY | Emphasizes emerging technologies and methods relating to network, data, and systems security from a global perspective. The course explores methods for identifying the threats and vulnerabilities in order to provide comprehensive security for network functions and configurations, information retrieval and storage, and secure software operations. In addition, the legal, ethical, and privacy issues in information systems are introduced. This course is required for Information and Technology Management Major and Minor. It is also suitable as an elective for undergraduate students interested in enterprise security. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: Minimum of 60 credit hours due to the degree of analysis and the expectation of performance or instructor approval. | LEC | 3 | 3 |

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| ITA | 435 | ADVANCED ANALYTICS | Combines technical and statistical skills, analytical thinking, and business acumen to create methods to capture, process, and organize data in the support of analytics techniques. Develops advanced analytics knowledge of and skills for multidimensional data modeling, data warehousing, and analytics processing to generate actionable knowledge from data so that managers can make knowledgeable decisions. This course is required for the Information Technology Management Major. It is also suitable as an elective for undergraduate students interested in analytics. May be offered in traditional and distance education formats. Prerequisites: ITM 310 - Data Management Essentials for Business and ITM 325 - Analytics. | LEC | 3 | 3 |
| ITALIAN | 101 | ITALIAN 1 | Develops the four language skills and studies the Italian culture. Stresses basic grammar. This course satisfies one additional course requirement from the approved list of communication courses for general education requirements. Three hours lecture per week/This course counts as a Group A, Humanities and The Arts General Education Requirements. Not offered every semester. | LEC | 3 | 3 |
| ITALIAN | 102 | ITALIAN 2 | Develops further the four language skills: speaking, listening, reading, and writing to a proficiency level regarded as basic communication in Italian. ITALIAN.102 is for students who wish to continue studying Italian at the second level. Italian language study is taught in its cultural context, including history, culture, diversity, and comparison with students' native culture. Practice in language laboratory and/or use of electronic language-learning media is required. ITALIAN.102 is offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 8 Second Language in general education. Three hours lecture per week. Prerequisite: ITALIAN.101 or equivalent proficiency level. This course is generally appropriate for students with one or two years of high-school Italian. | LEC | 3 | 3 |
| LANGCULT | 200 | COMP CULTURAL ST | Examines the dynamic processes by which our direct interaction with foreign cultural products language, texts, performances and other representation systems -influence how we, as language learners, see and understand the world and our place in it. LANGCULT.200 presents world culture in its historical contexts through lectures, projects and discussions. LANGCULT.200 is required for all students majoring in Languages and Cultures. Prerequisites: None. Course is offered in alternating semesters. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. | LEC | 3 | 3 |
| LANGCULT | 397 | SERV LEARN LANG | Applies knowledge of a second language to promote world languages in the community. Under the guidance of a faculty member in the Department of Languages and Cultures, university students prepare and carry out interactive lessons in after-school groups of students in grades K-8 and keep a record of their learning experiences as active advocates for world languages. This course may be repeated for a maximum of 2 GEPs for Goal 10. Prerequisites: An advanced intermediate level language course (minimum 204) or permission of the instructor. | LEC | 0 | 1 |
| LANGCULT | 400 | COMP LANG STUDIES | Explores language acquisition and linguistic diversity. Topics will include cognitive, historical and cultural aspects of language and linguistics. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: LANGCULT.200. Three hours lecture per week. | LEC | 3 | 3 |

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| LAW | 120 | PERSONAL LAW | Examines of the areas of the law that are likely to have a direct bearing on a person's life. Student participation required in considering the legal issues associated with relationships (marriage, divorce, adoption), finances (rental and credit card agreements, mortgages), work (employment contracts and liability), citizenship (the court system, law making process, and individual rights and responsibilities) and the hereafter (wills and trusts). Recommended for all students, regardless of major field of interest. Three hours lecture per week. This course earns one GEP toward Goal 2 Information Literacy, one GEP toward Goal 6 Social Sciences and one GEP toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| LAW | 331 | LAW & LEGAL ENVIRON | Covers the structure of the American legal, constitutional, and regulatory system, the nature and sources of law, the courts and dispute resolution, and the principles of law applicable to business, including administrative law, the common law of contracts, torts and products liability, property, intellectual property, crimes, employment and labor law, environmental law, consumer protection, antitrust law. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisites: 30 credit hours. | LEC | 3 | 3 |
| LAW | 332 | BUS & COMMERCIAL LAW | Presents basic principles of commercial law (UCC), agency and such topics as debtor/creditor relations, business organizations and securities regulation, bankruptcy and ethics. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisite: LAW.331. | LEC | 3 | 3 |
| LAW | 336 | LEGAL ASP OF FRAUD | The course covers the practical, legal and ethical considerations involved in the conduct of a fraud examination addressing the rules of evidence and civil and criminal procedure; rules concerning proof of intent and obstruction of justice; and the major federal statutes relevant to fraud investigation. Professional standards of fraud examiners will be studied and, current cases examined. Three hours lecture per week. Prerequisites: 60 hours of credit must be earned before taking this course; LAW.331 is highly recommended, but not required | LEC | 3 | 3 |
| LAW | 460 | EMP DISCRIM | A survey of major federal laws that address equal opportunity in employment and focuses on types of job discrimination outlawed by Title VII of the 1964 Civil Rights Act. Legal and ethical issues relating to affirmative action programs are discussed, as are state and local laws addressing employment discrimination. This course is approved as a Diversity General Education Course. Prerequisite: LAW.331. | LEC | 3 | 3 |
| LAW | 475 | NEGOTIATION AND ADR | Examines the most commonly used forms of dispute resolution including negotiation, mediation, arbitration, and online methods. The examination will include the steps and procedures for each method, along with discussions of how to select the appropriate form. The course will also include a skill building component designed to improve each student's negotiation skills through the use of negotiation techniques, exercises and critiques of videotaped negotiation sessions. Three hours lecture per week. Prerequisites: LAW.331 | LEC | 3 | 3 |
| MATH | 101 | MATH THINKING | Presents mathematical topics and applications in a context designed to promote quantitative reasoning and the use of mathematics in solving problems and making decisions. Suitable for majors in humanities, education and others seeking a broad view of mathematics. No background in algebra required. This course earns three GEPs toward Goal 3 Analytical and Quantitative Skills in general education. This course is an approved Foundational Course. May be offered in traditional and distance education formats. Prerequisites: None. May be offered in traditional and distance education formats. Three hours of lecture per week. | LEC | 3 | 3 |

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| MATH | 101A | MATH THINKING RECITATION | Presents mathematical topics and applications in a context designed to promote quantitative reasoning and the use of mathematics in solving problems and making decisions. It is suitable for majors in humanities and education and for others seeking a broad view of mathematics. No background in algebra is required. This includes a 1-credit recitation aimed at providing just-in-time review of algebraic and arithmetical concepts in support of the content of Math 101. Some of the topics that might be covered are factoring, fractions, linear equations, percentages, functions, and graphs of equations and functions. Prerequisites: Mathematics Placement Results below Foundational Math Placement, or permission of instructor. | LEC | 4 | 4 |
| MATH | 109 | COLLEGE ALGEBRA | Studies fundamental algebraic concepts and develops the mathematical and computation skills necessary to apply algebraic techniques to problems in business, economics, the social and natural sciences and the liberal arts. This course is an approved Foundational Course. Not open to students with a C- or higher recorded for MATH 113, MATH 123 or MATH 125. Prerequisite: ENRICH 90 Intermediate Algebra or Placement Test or SAT score high enough to place out of this requirement. | LEC | 3 | 3 |
| MATH | 111 | FINITE MATHEMATICS | Presents an introduction to logic, sets, counting techniques, probability, positional notation and non-decimal number systems. Students who have not had two years of high school algebra should take Math.109 College Algebra before taking Math.111. This course is required for students majoring in Computer Forensics. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education. This course is an approved Foundational Course. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| MATH | 113 | PRE CALCULUS | Studies elementary algebraic functions and relations, exponential and logarithmic functions, circular functions and inverse functions and their applications. Students learn the mathematical knowledge needed for the study of calculus and the related quantitative natural sciences. This course is an approved Foundational Course. Prerequisites: MATH.109 or Math Placement Test result of PreCalculus. | LEC | 3 | 3 |
| MATH | 123 | ESSENTIALS CALCULUS | Presents the basic concepts of elementary calculus in a non-rigorous approach for students who are not mathematics majors. Pertinent topics in the real number system, analytic geometry, functions and limits prepare the student for the study of the basic techniques of applications of differentiation and integration. Course is not for chemistry, mathematics or physics majors. Students without sufficient algebra background should take MATH.109 prior to taking this course. This course earns three GEPs toward Goal 3 Analytical and Quantitative Skills in general education. This course is an approved Foundational Course. Three hours lecture per week. Prerequisite: MATH.109 College Algebra or a Math Placement Test Result of Precalculus. This course is not open to students who have earned a C- or better in MATH.125. | LEC | 3 | 3 |
| MATH | 125 | CALCULUS 1 | Presents differentiation of algebraic and transcendental functions of a single variable, with applications, and the beginnings of integration. It is the first in the sequence of three calculus courses designed for students majoring in mathematics and other disciplines that require calculus. This course earns two GEPs toward Goal 3 Quantitative Reasoning and one GEP toward Goal 5 Natural Sciences in general education. This course is an approved Foundational Course. Prerequisite: Qualifying for Calculus on the University Placement Exam or MATH.113 or MATH.112. Three hours of lecture per week. | LEC | 4 | 4 |
| MATH | 126 | CALCULUS 2 | Presents the integral calculus of functions of a single variable, sequences, series, and applications. It is the second in the sequence of three calculus courses designed for students majoring in mathematics and other disciplines that require calculus. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education. Prerequisites: MATH.125. | LEC | 4 | 4 |

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| MATH | 141 | INTRO TO STATISTICS | Provides an introduction to descriptive and inferential statistics. Topics covered include numerical and graphical summary procedures, basic probability concepts, random variables and distributions, the Central Limit Theorem, confidence intervals, and hypothesis testing. Prerequisites: High School Algebra. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education and may be offered in traditional and distance education formats. This course is an approved Foundational Course. Three hours lecture per week. | LEC | 3 | 3 |
| MATH | 180 | DISC MATH STRUCTURES | Presents an introduction to the language of mathematics, symbolic logic, modular arithmetic, combinatorics, graphs, and ciphers. This course will discuss how these structures relate to the field of digital forensics with emphasis on students being able to express clearly the ideas of discrete mathematics and logically explain solutions. Three hours lecture per week. Prerequisites: MATH 141 - Intro. to Statistics and MATH 111 - Finite Math or MATH 125 - Calculus 1 | LEC | 3 | 3 |
| MATH | 185 | DISCRETE MATHEMATICS | Presents an introduction to the language of mathematics and proof. Topics include symbolic logic, set theory, relations, functions, combinatorics, and mathematical induction. The course is intended for students majoring in mathematics or computer science and is not usually taken in the first semester of freshman year. Prerequisite: MATH.125. Three hour of lecture per week. | LEC | 3 | 3 |
| MATH | 201 | CONCEPT MATH 1 THEOR | Provides a survey of mathematics aimed at a developing skills in the use of numbers, number patterns and operations with numbers. Problem solving sets and number systems are emphasized. Other topics covered are set vocabulary, elementary number theory and historic number systems. Problem solving methods and manipulatives are used where appropriate. Calculator use is not permitted in this course. This course is an approved Foundational Course. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| MATH | 201A | CONCEPT MATH 1 THEORY REC | Co-requisite course for MATH 201 - Concepts of Mathematics 1: Theory of Arithmetic designed to provide background in concepts used throughout the course. Topics covered include arithmetic, problem solving, sequences, graphing, and functions. This course requires dual enrollment with MATH 201 | LEC | 1 | 1 |
| MATH | 202 | CONCEPT MATH 2 GE ST | Provides a survey of mathematics aimed at developing skills in the use of basic geometry, probability and statistics. Conceptual models and representations are used throughout the course. Calculator use is not permitted in this course. This course earns two GEPs toward Goal 3 Quantitative Reasoning in general education. Three hours lecture per week. Prerequisites: MATH.201. | LEC | 3 | 3 |
| MATH | 225 | CALCULUS 3 | Examines three dimensional analytic geometry and vectors, vector-valued functions, vector calculus, partial derivatives, multiple integrals, Green's theorem, Stokes' theorem and their applications. The course is designed for students majoring in mathematics and other disciplines that require calculus. The third in a three-semester calculus sequence, this course examines differentiation and integration of vector-valued functions and functions of several variables. Prerequisites: MATH.126. | LEC | 4 | 4 |
| MATH | 240 | STATISTICAL METHODS | Presents common statistical techniques with emphasis on applications. Topics include: confidence intervals, hypothesis test, regression analysis and analysis of variance. Strongly encourages use of statistical software, especially SAS. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture per week. Prerequisite: MATH.141 or MATH.241 or consent of the instructor. | LEC | 3 | 3 |

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| MATH | 241 | PROB & STATISTICS | Calculus-based study of probability and statistics. Topics covered include: descriptive statistics, probability, discrete and continuous random variables, common distributions, sampling distributions, estimation procedures and inferential statistics. A more rigorous course than MATH.141. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture per week. Prerequisites: MATH.126 (or concurrent) and MATH.185. | LEC | 3 | 3 |
| MATH | 314 | LINEAR ALGEBRA | Presents the theory and computational aspects of matrix operations, determinants, abstract vector spaces, linear transformations, eigenvalues and eigenvectors, and related topics. Applications of these concepts to modeling problems in science, business, and engineering may be considered. The course is intended for mathematics, computer science and science majors. Three hours of lecture per week. Prerequisites: MATH.185. | LEC | 3 | 3 |
| MATH | 322 | DIFF EQUATIONS | Studies elementary ordinary differential equations, power series solutions, some numerical methods of solution, Laplace transforms, and first-order systems of equations. Applications of these concepts in science and engineering will be considered. The course is intended for mathematics and science majors. Three hours of lecture per week. Prerequisite: MATH.126. | LEC | 3 | 3 |
| MATH | 405 | INTRO ABSTRACT ALG | Provides an introduction to the language and methods of abstract mathematics. Topics included are: sets, relations, functions, groups, rings and fields. Emphasis is on the elementary theory of groups. The course is intended for mathematics majors. Prerequisites: MATH.314. Three hours lecture per week. | LEC | 3 | 3 |
| MATH | 410 | MATH MODELING | Presents a synthesis of mathematical methods utilized to model and solve real-world problems. The emphasis is on developing models that provide the means to analyze and answer questions posed in practical settings. Students will learn a problem-solving approach toward applied problems in optimization, dynamical systems, and stochastic processes. The course is intended for mathematics majors. Three hours of lecture per week. Prerequisites: MATH 241 and COMPSCI 122 or COMPSCI 215 or MATH 320 or any course COMPSCI 300 or higher. | LEC | 3 | 3 |
| MATH | 446 | BIOSTATISTICS | An introduction to the concepts and methods of advanced statistics techniques that arise in health and life sciences with emphasis on problems that are likely to be encountered by graduate researchers in biological sciences. It includes methodologies for design and analysis of multivariate data. The use of statistical software to analyze data sets is stressed. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture per week. Prerequisites: MATH 141 - Intro to Statistics. | LEC | 3 | 3 |
| MATH | 456 | THRY OF COMPUTATION | Presents an introduction to automata, formal languages computability and computational complexity. Topics include finite automata, pushdown automata, context-free grammars, Turing machines, and algorithmically unsolvable and computationally intractable problems. The course is intended for students interested in computer science theory and is cross-listed in Mathematics and Computer Science. Three hours lecture per week. Prerequisites: MATH.185 and COMPSCI.115 or COMPSCI.121. | LEC | 3 | 3 |
| MATH | 546 | BIOSTATISTICS | An introduction to the concepts and methods of advanced statistics techniques that arise in health and life sciences with emphasis on problems that are likely to be encountered by graduate researchers in biological sciences. It includes methodologies for design and analysis of multivariate data. The use of statistical software to analyze data sets is stressed. This course counts as a Group C, Natural Sciences & Math General Education Requirements. Three hours of lecture per week. | LEC | 3 | 3 |

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| MBA | 500 | MBA | The MBA Outcomes Assessment course is a zero-credit course. This course documents the College of Business' outcomes assessment policies #4310 for all MBA students. This policy states that all students enrolled in degree programs in the College of Business are required to fully and cooperatively participate in the outcome assessment activities of the College of Business or its departments. MBA 500 course will consist of two outcomes assessment exams; an entrance exam, which will be administered when students enter the MBA Program, and an exit exam, when students apply for graduation. Student participation in outcomes assessment activities supports compliance with AACSB accreditation standards. The results are collected and used for assessment purposes only. Prerequisites: MBA Student, Permission of MBA Program Director. | LEC | 0 | 0 |
| MEDIA | 110 | INTRO TO MASS COMM | Surveys the history and development of mass media in all of its forms including television, film, music, social media, video games, magazines, newspapers, books, etc. This course also explores the idea that popular culture - the everyday messages to which we are exposed - is the dominant persuasive, rhetorical influence in most people's lives today. This course is required for students majoring in Media and Journalism. The course is open to non-majors. This course earns one GEP toward Goal 2 - Information Literacy and 2 GEPs toward Goal 4 - Cultures and Diversity in general education. May be offered in traditional and distance education formats. Three hours of lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| MEDIA | 120 | INTRO EMERGENT MEDIA | Explores history and foundational principles of emerging media in the Mass Communications field. This foundational level course develops undergraduate students' media and information literacy knowledge and skills, and prepares them for an expanding technological society. The course is required for students majoring in Mass Communications, is open to non-majors, and has no prerequisites. Three hours of lecture per week. This course earns one GEP toward Goal 1 Communication, one GEP toward Goal 2 Information Literacy and one GEP toward Goal 4 Cultures and Diversity in general education. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| MEDIA | 220 | INTRO TO MULTIMEDIA | Introduces students to the world of online multimedia from the perspective of mass communication. The primary emphasis of the course is the design and development of websites, implementing web design technologies to craft messages for digital audiences. Students learn how to code with HTML and CSS and employ contemporary design standards to their projects. This course is an elective for students majoring in Media and Journalism and can be used for the Emergent Media minor. This course earns one GEP toward Goal 1 - Communication, one GEP toward Goal 3 - Analytical and Quantitative Skills, and one GEP toward Goal 7 - Arts and Humanities. Prerequisites: None. | LEC | 3 | 3 |
| MEDIA | 230 | NEWSWRITING | Offers theory and techniques of news writing and reporting for mass media, especially for the print journalism audience, including organizational characteristics of news stories and skills for gathering news materials. This course is required for students majoring in Mass Communications. This course is open to non-majors as Gen. Ed. Three hours of lecture/lab per week. This course earns two GEPs toward Goal 1 Communication and one GEP toward Goal 2 Information Literacy in general education. May be offered in traditional and distance education formats. Prerequisites: ENGLISH 101. | LEC | 3 | 3 |
| MEDIA | 241 | ON-LINE JOURNALISM | Introduces how to write stories and publish them with diverse online media tools, including blogs and social media. This course also introduces how to promote and manage news content disseminated through new forms of digital media. This course builds upon MASSCOMM.230, which focuses on news writing. This is an elective for students majoring in Mass Communications. May be offered in traditional and distance education formats. Three hours of lecture/lab per week. Prerequisite: MASSCOMM.230. | LEC | 3 | 3 |

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| MEDIA | 251 | PRTHEORYANDPRACTICE | Introduces the principles, theories and practice of public relations in the contemporary environment. Course examines public relations definitions, theories and addresses the profession, including various structures and sub-disciplines. Course allows students to accrue 2 GEP's in Goal 1 - Communication, and 1 GEP in Goal 2 - Information Literacy. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| MEDIA | 260 | SOCIAL MEDIA AND POD | Introduces students to the current use of social media and podcasting technologies, and explores the ways in which human-to-human communication interactions have been influenced or altered through the use of media. The course will examine development of social media, podcasting, and other digital media with a critical view of their effects on society. We will discuss the role of social media and podcasting in contemporary life by exploring how these emerging technologies affect news, entertainment, business and other industries. This course is an elective for students majoring in Media and Journalism, and can be used for the Emergent Media minor. This course earns one GEP toward Goal 1 - Communication, one GEP toward Goal 2 - Information Literacy, and one GEP toward Goal 6 - Social Sciences. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| MEDIA | 271 | VIDEO PRODUCTION I | Concentrates on the knowledge and physical use of technical requirements that operate the growing range of equipment needed to produce contemporary television and video programs both in the studio and in the field. This course is required for students majoring in Mass Communications. The course is only open to majors. Three hours of lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| MEDIA | 275 | CINEMA APPRECIATION | Examines film form, theory and criticism to help bring about a better understanding and greater appreciation of the motion picture. This course is devoted to a diverse cultural mass medium that is the cinema and both the production of culture via a wide variety of film traditions and the consumption of culture by diverse audiences based on categories such as gender, age, race/ethnicity, religion, socioeconomic status, sexual orientation, etc. This course also strives to enhance both the cultural awareness and the visual appreciation required in the consumption of our modern media. Required for students majoring in-Mass Communications. Open to non-majors. This foundational class has no prerequisites. Three hours of lecture per week. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: None. | LEC | 3 | 3 |
| MEDIA | 280 | VISUAL COMMUNICATIONS | Introduces the basic concepts and approaches of visual communication including its history, social impact, and industry developments. Students will learn how to ethically use, create, and develop digital images for a variety of print and electronic media. Students create a digital portfolio that uses advanced storytelling techniques, showcases civic engagement and digital media competency. The resulting portfolio builds a bridge from student work to professional practice. This course earns one GEP toward Goal 1 Communication one GEP toward Goal 6 Social Sciences in general education and one GEP toward Goal 10 Citizenship in general education. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| MEDIA | 297 | PRACTICUM | Involves participation in activities in various campus media and University Centers associated with the Department of Mass Communications offering applied learning experiences for students. The purpose of the Practicum in Mass Communications is to help students gain a better understanding of media production through hands-on experience with on campus media organizations. A grade is awarded each semester. May be repeated for credit. Students may enroll in the course three (3) times. Minimum of three (3) hours per week with campus media or applied learning center. Prerequisites: 30 earned credit hours and with advisor approval | ACT | 1 | 1 |

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| MEDIA | 310 | MEDIA LAW AND ETHICS | Surveys legal restraints that influence the nature and content of mass media messages and business practices. Covers historical developments, criminal libel, sedition, defamation, privacy, copyright, obscenity, shield law, freedom of information, free press-free trial, unique broadcast policies, advertising and antitrust problems. Includes discussion of ethical issues facing the media. The course is typically offered every other academic semester. Three hours lecture per week. May be offered in traditional and distance education formats. Prerequisite: MASSCOMM.230. | LEC | 3 | 3 |
| MEDIA | 336 | DIGITAL VIDEO EDIT | Provides instruction in practices, theory and technology of video and audio editing. The aesthetics of editing will also be covered. The majority of our work will be non-linear, digital video editing. This course is an elective for students majoring in Mass Communications. The course is only open to majors. Three hours of lecture per week. May be offered in traditional and distance education formats. Prerequisite: MASSCOMM.271. | LEC | 3 | 3 |
| MEDIA | 367 | VIDEO PRODUCT II | Provides instruction in directing and on camera performance for television. Includes laboratory hours. This course is an elective for students majoring in Mass Communications. The course is only open to majors. The course will be offered approximately every other academic semester but may be offered more frequently. Three hours of lecture per week. Prerequisites: MASSCOMM.336. | LEC | 3 | 3 |
| MEDIA | 398 | RESEARCH METHODS | Introduces students to designing and conducting research in the practice and study of mass communications and to writing an academic research paper. While emphasizing quantitative methods (e.g., surveys, experiments), qualitative methods (e.g., content analysis, interviewing, focus groups) will be discussed. Required for students majoring in Mass Communications. Three hours of lecture per week. May be offered in traditional and distance education formats. Prerequisites: Minimum 60 credits. | LEC | 3 | 3 |
| MEDIA | 420 | EMERGENT MEDIA WKSHP | Offers students specific instruction on current technical and practical aspects of technology in the field. The course is a workshop with class time divided between lecture and computer lab meetings. The overarching goal of this workshop is to critically discuss the theoretical and practical aspects of the latest Mass Communication technologies and aid students in creating media products. Students may enroll in the course more than once as topics are varied by the Mass Communications Department. If a student wishes to take MASSCOMM 420 more than once, the Department Chair must approve. Prerequisites: MASSCOMM.220. | LEC | 3 | 3 |
| MEDIA | 446 | MAG EDITING & PROD | Acquaint students with the principles and techniques of magazine production, including manuscript selection and editing, design, and various business operations. A study of the nature of magazines as part of a mass communications system is included. This course builds upon MASSCOMM.334 and MASSCOMM.340, which focus on feature writing and editing. The course is an elective for students majoring in Mass Communications. Prerequisites: MASSCOMM.334 and MASSCOMM.340. Four hours of lecture/lab per week. | LEC | 4 | 4 |
| MEDIA | 475 | PR WORKSHOP | Presents a workshop in Public Relations where students receive specific instruction in the areas of theory, research and practice of specific Public Relations strategies including: Crisis Communication, Sports PR, International Public Relations, Public Relations for Social Media, and Research Methods in Public Relations. Students develop expertise in creating and managing research-driven, strategic communication campaigns within the various strategies of public relations, and gain professional skills. This course is an elective for students majoring in Mass Communications. Three hours lecture per week. Students may enroll in the course more than once as topics are varied by the Mass Communications department. If a student wishes to take Mass Comm 475 more than once, the Department Chair must approve. | LEC | 3 | 3 |

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| MEDIA | 480 | TELECOM WORKSHOP | Offers a practical workshop in which students focusing their studies on telecommunications undertake specific instruction on the technical and aesthetic aspects of their major. Topics may change from semester to semester and students may be required to work on specific projects, such as telethons or television news, as part of their workshop program. Workshops may be repeated provided topics change. This course is an elective for students majoring in Mass Communications. The course is only open to majors. Prerequisite: MASSCOMM.367. Three hours of lecture per week. | LEC | 3 | 3 |
| MEDIA | 482 | SEMINAR | Focusing predominantly on new and emerging subjects resulting from the pervasiveness of new media forms and technologies, this seminar course is largely designed to provide an outlet for faculty to cover the latest trends in media. Topics may change from semester to semester. Students may repeat seminars, subject to a change in topic and with the approvals of the instructor. This course is an elective for students majoring in Mass Communications. The course is only open to majors. Three hours of lecture per week. May be offered in traditional and distance education formats. Prerequisites: 60 or more credits or with the permission of the instructor. | SEM | 3 | 3 |
| MEDIA | 498 | CAPSTONE | Focuses on developing necessary strategies that allow students to successfully obtain jobs in the mass communications industries or placement in graduate school. Integrates skills and working knowledge from all areas of the program for the purpose of developing a portfolio as well as job searching skills. This course is required for students majoring in Mass Communications. This course is open to majors only. This course may be offered in person, in a hybrid format or through distance education. Prerequisite: 90 credits completed, and all major requirements previously or concurrently taken. Three hours of seminar per week. | LEC | 3 | 3 |
| MGMT | 244 | PRINCIPLES OF MANGT | Focuses on the fundamentals of the practice of management, including administrative, organizational and behavioral theories. It explores the functions of management and the aspects of the organizational environment. Three lecture hours per week. May be offered in traditional and distance education formats. Prerequisites: 24 credits earned. | LEC | 3 | 3 |
| MGMT | 325 | ENTREPRENEURSHIP | Develops entrepreneurial thinking and action in students. Students will discover the processes used for finding problems worth solving, assessing the ways to solve them and mobilizing the resources to capitalize on the entrepreneurial solutions. This course is a required course for the entrepreneurship minor and an elective option for Management and other Business students. Three lecture hours per week. Prerequisites: MGMT 244 - Principles of Management. | LEC | 3 | 3 |
| MGMT | 345 | HUMAN RESOURCE MGT | Develops the capacity to help an organization deal effectively with its people during the various phases of the employment process, from organizational entry to exit. Students learn how to properly perform HR tasks such as interview job applicants, provide and communicate job performance ratings, and carry out disciplinary procedures, all within the context of prevailing legal and ethical standards. May be offered in traditional and distance education formats. Three hours per week. Prerequisite: MGMT.244 and must have 50 credits earned. | LEC | 3 | 3 |
| MGMT | 346 | LABOR & INDUST RELAT | Develops knowledge of the relationship between management and labor in situations where the relationship is governed by a collective bargaining agreement and in those where it is not. Students learn about the development of unions in the United States and the legal obligations and best practices related to protected concerted activities, union organizing campaigns, contract negotiations, impasse resolutions, and grievance procedures. The future of unions in the United States and comparisons to other countries' industrial relations systems are also explored. This course is an elective option in the Management Program. Prerequisite: MGMT 244 - Principles of Management. | LEC | 3 | 3 |

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| MGMT | 355 | MANAGE MULTICUR ORG | Studies the impact of increasing diversity in terms of gender, race, ethnicity and nationality on management practice of multicultural organizations through enhanced decision making. Examines ways in which diversity can be used to strengthen organizations through enhanced decision making, creativity, innovation, and expanding international and ethnic markets. Examines strategies for building and maintaining functional multicultural organizations by reducing turnover, interpersonal and conflict and communication barriers. The course emphasizes workplace equity. Three lecture hours per week. Prerequisite: MGMT.244 - Principles of Management. | LEC | 3 | 3 |
| MGMT | 356 | GLOBAL BUSINESS | Introduces the processes, institutions and problems associated with doing business in global environment. This course will focus on the environment of international business, political, legal, social, cultural and economic consequences of globalization and the differences between national markets. This course is a requirement for International Business majors and an appropriate elective for Management majors. It also serves as a business elective for other Zeigler College of Business students interested in Global Business. Three hours lecture per week. Prerequisites: ECON 121 - Principles of Macroeconomics and MGMT.244 - Principles of Management. | LEC | 3 | 3 |
| MGMT | 370 | MANAGERIAL DM | Develops knowledge of decision-making processes and the ability to apply data-driven approaches to a variety of managerial issues. From a systems perspective, students learn to structure problem solving efforts, transform data into valid and reliable information, propose measures that address identified root causes, practice goal-directed thinking, and analyze decisions within specific business contexts. The course is a core course in the Management Degree Program and is suitable for students seeking to improve their decision-making competencies. Three hours lecture per week. Prerequisites include MGMT.244, ECONOMIC.256, and ITM.175. | LEC | 3 | 3 |
| MGMT | 371 | SUPPLY CHAIN OPS | Introduces the management activities related to the coordination and integration of a firm's operational processes with those of the broader supply chain. Students learn to structure, manage, and improve the flows of products, services, information, and money and synchronize an organization's goals and processes with its partners. The course is a core course in the Management Degree Program and is suitable for students seeking to learn about the strategic imperatives associated with operating a business in today's global environment. This course requires student participation in a manufacturing plant tour. Prerequisites include MGMT.244, ECONOMIC.256, and ITM.175. | LEC | 3 | 3 |
| MGMT | 391 | SMALL BUS MANAGMT | Applies small business theory and practice in the U.S. business environment. Distinguishes types of small businesses and differentiates the advantages and disadvantages associated with each type. Presents a thorough treatment of the start-up and management of small firms including forms of ownership, financing, operations, accounting, human resources, location, franchising, inventory, marketing, regulation, and risk management. Course may be offered online or in the traditional class setting. Three lecture hours per week. Prerequisites: 60 credits, ACCT.220, ACCT.223, MGMT.244, FINANCE.313, MKTG.310 and LAW.331. | LEC | 3 | 3 |
| MGMT | 449 | ORGANIZAT BEHAVIOR | Discusses individual (personal/inter personal) behaviors in the organization. It also discusses group and team process, and behaviors. It studies theories and cases related to how the individual, team/group through interactions with organizational structure, processes, and leadership, do create the organizational culture and climate, and thus shape the behavior of the organization. This course is required for the Management Major and Minor. It is also suitable as an elective for undergraduate students in the College of Business. May be offered in traditional and distance education formats. Prerequisite: MGMT.244 and 60 credit hours. | LEC | 3 | 3 |

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| MGMT | 456 | INTERNAT MANAGEMENT | Develops an understanding of the issues related to international business environment, refines this knowledge by the analysis of current economical, social and political issues that can influence international and global companies and prepares students to analyze international business issues as a manager of a multinational/global company. Three lecture hours per week. Prerequisite: MGMT.244 and junior standing. This course is approved as a Diversity General Education Course. | LEC | 3 | 3 |
| MGMT | 457 | MGR ETHICS & CSR | Prepares students to manage social responsibility and ethics issues related to business operations and the interests of multiple stakeholders. This course is required for Management majors. It is also suitable as an elective for undergraduate students interested in business ethics and corporate social responsibility. Three lecture hours per week. May be offered in traditional and distance education formats. Prerequisites: MGMT.244 and 60 credits earned. | LEC | 3 | 3 |
| MGMT | 463 | EMPLOYEE STAFFING | Examines the procedures used by companies to recruit and hire employees. Students learn how organizations seek to improve effectiveness by ensuring each job is legally staffed by a fully capable individual. Topics covered include job analysis, employee recruitment, selection techniques, validation procedures and legal restraints on employee selection practices. Three lecture hours per week. Prerequisite: MGMT.345 - Human Resource Management and junior standing. | LEC | 3 | 3 |
| MGMT | 477 | MANAGING INNOVATION | Develops students' knowledge of innovation paradigms, processes, and techniques, and introduces management of organizational learning. Students learn to identify opportunities for improvement based on analysis of key performance metrics and to apply strategies that facilitate innovative solutions. The course is a required course in the Supply Chain Management Degree Program and an elective course in the Management Degree Program and is suitable for students seeking to learn about organizational cultures that stimulate and sustain analysis-driven innovation across all business functions and supply chain environments. The course is software-supported; students utilize the Microsoft Office Suite, enterprise technology, and application software. May be offered in traditional and distance education formats. Prerequisite: MGMT.370 and MGMT.371. | LEC | 3 | 3 |
| MGMT | 478 | MANAGING BUS PROC | Develops students' knowledge of the interrelated nature of business disciplines through the managing of business processes. Students learn the principal business processes common to the majority of business organizations, functional roles and how they interact, and software tools that facilitate development of appropriate organizational structures. The course is an elective course in the Management Degree Program and is suitable for students seeking to further their understanding, recognition, and interpretation of cross-functional flows and relationships. Prerequisite: MGMT.475. | LEC | 3 | 3 |
| MGMT | 479 | SUPPLY CHAIN SEMINAR | Facilitates integration of the concepts, processes, and strategies of global supply chain management to ensure the optimization of business processes from original suppliers through consumer end-users. Students learn how to manage trade-offs in procurement, inventory, and distribution activities, improve forecasts, and develop customer relationships. This course requires student participation in a distribution facility tour, an on-campus supply chain simulation, and membership in relevant professional organizations and their respective BU student chapters. The course is an elective course in the Management Degree Program and is suitable for students seeking to learn about managing flows of materials, information, and money along global integrated supply chains. Three hours lecture per week. The prerequisite is MGMT.475. | LEC | 3 | 3 |

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| MGMT | 480 | LEADERSHIP | Examines theories of leadership and sources and uses of power in organizations. The course will also focus on leadership development, specifically identifying values and beliefs, learning effective communication and conflict strategies, and identifying students' own most effective leadership styles. Three lecture hours per week. Prerequisites: MGMT 449 - Organizational Behavior and 90 credits. | LEC | 3 | 3 |
| MGMT | 497 | BUSINESS POLICIES | Prepares students in the area of strategic decision-making for the total organization through strategic formulation and administration using integrative analysis and strategic planning and process. Three lecture hours per week. Prerequisites: 90 semester hours earned, MGMT.244, FINANCE.313, MKTG.310, LAW.331 and senior standing. | LEC | 3 | 3 |
| MGMT | 560 | OPERATION MANAGEMENT | This 3-credit graduate course introduces students to the operational issues, opportunities, and problems in manufacturing and service industries in global supply chain contexts. Both quantitative and qualitative in nature, the content provides students a systematic and integrative approach to managing organizations, and exposes them to the true breadth and depth of decision issues and opportunities typical in modern organizations. With its dual focus on strategic and operating levels, this course integrates quantitative models including forecasting, location, project management, and inventory management with broad-based managerial issues such as strategic planning, product and industry life cycles, supply chain management, and enterprise systems planning. May be offered in traditional and distance education formats. Prerequisites: MGMT.511. | LEC | 3 | 3 |
| MGMT | 560 | OPERATION MANAGEMENT | This 3-credit graduate course introduces students to the operational issues, opportunities, and problems in manufacturing and service industries in global supply chain contexts. Both quantitative and qualitative in nature, the content provides students a systematic and integrative approach to managing organizations, and exposes them to the true breadth and depth of decision issues and opportunities typical in modern organizations. With its dual focus on strategic and operating levels, this course integrates quantitative models including forecasting, location, project management, and inventory management with broad-based managerial issues such as strategic planning, product and industry life cycles, supply chain management, and enterprise systems planning. May be offered in traditional and distance education formats. Prerequisites: MGMT.511. | LEC | 3 | 3 |
| MGMT | 567 | MANAGING PEOPLE | Develops the skills essential for effective interpersonal management in a modern organization. It provides an integrated, comprehensive learning model designed to modify current behavior and provide a foundation for changing behavior in the future. Students enhance their abilities in supportive communication, motivating employees, gaining power and influence, developing and managing work teams, creating a motivational environment, and facilitating change. May be offered in traditional and distance education formats. Three hours per week. Prerequisites: Graduate Standing. | LEC | 3 | 3 |
| MKTG | 310 | MARKETING PRIN & PRAC | Surveys the fundamental features of contemporary marketing systems and the planning required to make available satisfying goods and services to customers at a profit. Explains the role of marketing in society and the institutions which compose the market system. Describes components of the marketing mix-product planning, distribution, pricing and promotion. Three lecture hours per week. May be offered in traditional and distance education formats. Prerequisite: ECONOMIC.121 and ECONOMIC.122. | LEC | 3 | 3 |

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| MKTG | 330 | CONSUMER MOTIV & BEH | Analyzes the role of the consumer as the ultimate buyer of the product and the strategy and forces directed at the consumer by the seller. Topics include models of consumer buying behavior, consumer motivation, interpersonal and intrapersonal influence on the consumer as a decision maker in the market place. This course may be offered in traditional and distance education formats. Three lecture hours per week. Prerequisites: MKTG.310 and PSYCH.101. | LEC | 3 | 3 |
| MKTG | 331 | DIGITAL MKTG FUND | Introduces students to the fundamentals of digital marketing and its application within online and mobile environments. Special emphasis will be placed on how digital marketing has disrupted the traditional marketing landscape and its influence on the sales funnel, creating customer personas, customer and brand relationships, consumer value and bonding, the importance of content development, native advertising among digital platforms, and the impact of analytics in decision-making. This course will equip students with the skills and tools necessary for developing and implementing successful strategic digital marketing outcomes. This course is intended for marketing students or as an elective for students in other business or academic disciplines. Prerequisite: MKTG 310 - Marketing Principles and Practices. | LEC | 3 | 3 |
| MKTG | 340 | IMC | Provides students with a foundation in the development and execution of communications strategies for any organization. Primary emphasis is placed on consumer insight, branding, market segmentation and positioning, message strategy, promotion and the execution of marketing communications through appropriate media technologies. Students will develop an understanding of marketing communications practice through readings, lectures, case analysis and discussions and will demonstrate effective decision-making in ambiguous marketing environments, using financial and market analysis, and considering legal and ethical concerns. The course develops students' ability to think analytically and strategically by assessing examples and case studies of marketing communications problems and opportunities. This course may be offered in traditional and distance education formats. Prerequisite: MKTG.310. | LEC | 3 | 3 |
| MKTG | 341 | PRIN OF SELLING | Analyzes selling as a profession, includes preparation for successful selling, steps and procedures associated with the sales process, and special selling topics. Students apply sales principles and techniques while conducting sales presentations. Three lecture hours per week. Prerequisite: MKTG.310. | LEC | 3 | 3 |
| MKTG | 350 | OMNICHANNEL RETAILING | Presents retailing and retail management from a holistic, omnichannel perspective. The course is designed to embrace the evolution of retailing by understanding the impact technology has on retailers and consumers. The traditional retail environment will be discussed as well as retailing in the digital age. The course will cover elements of the channels distribution system, consumer/marketing analysis, store location, store layout, merchandising, pricing, service levels, and promotional issues using an omnichannel business model. This course may be offered in traditional and distance education formats. Prerequisites: MKTG.310. | LEC | 3 | 3 |
| MKTG | 370 | SALES MANAGEMENT | Examines the personal selling element of the marketing/promotional program from a management perspective. Recruiting, selecting, training, organizing motivating, compensating, evaluating and controlling the sales force are treated as well as management's planning responsibilities which include designing intelligence systems, forecasting and establishing sales territories. Special consideration is given to sales management's inputs and integration with marketing management. Prerequisite: MKTG 310 | LEC | 3 | 3 |

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| MKTG | 373 | INTEGRATED CRM | Introduces the strategies, processes, and activities related to using customer information to manage customer relationships for greater revenues and profits, and to integrate flows of materials, information, and capital across an inter-organizational supply chain from basic producers to end users. Students will learn to use customer information captured by a customer relationship management (CRM) system to build and maintain client relationships, to improve the organization's ability to forecast future sales/demand in dynamic market environments, to develop a holistic view of customer profitability and customer lifetime value, including total cost-to-serve based on information integrated from Enterprise Resource Planning systems, and to coordinate marketing, sales, service/support, and channels of distribution. Students will manage CRM operations and tactics, including lead generation, sales force automation, direct marketing campaigns, channel campaigns, service processes and deployments, and customer loyalty programs appropriate to consumer (B2C) and inter-organizational (B2B) settings. Prerequisites: ITM.175, MGMT.244 and MKTG.310. | LEC | 3 | 3 |
| MKTG | 380 | INTERNATIONAL MARKET | Examines the universality of the marketing discipline throughout diverse global economies. Conducts cross cultural analyses to understand cultural universals and the economic integration of regional alliances, such as the European Union. Assesses various entry strategies such as exporting, joint ventures, direct investment and turn key operations. Highlights the corporate role of global strategic partnerships in producing a higher standard of living. Three lecture hours per week. Prerequisite: MKTG.310. May be offered in traditional and distance education formats. | LEC | 3 | 3 |
| MKTG | 440 | MARKETING RESEARCH | Develops the skills of the scientific marketing research procedure (problem definition, research design, data collection, analysis and interpretation). Applies research data collection methods and statistical analysis to product mix issues such as planning, advertising research, consumer or competitive analysis. Three lecture hours per week. Prerequisites: ECONOMIC 256 - Bus & Economics Statistics I or PSYCH 160 - Applied Statistics for the Behavioral Sciences. | LEC | 3 | 3 |
| MKTG | 445 | ADVANCED SALES | Develops students' knowledge of the selling process to a professional and competitive level. Students improve their sales skills through several role-playing projects and a real world sale. Finally, the top students will have the opportunity to compete in regional, national and international sales competitions. Team selling will also be introduced. The course is an elective course in the Marketing Degree Program. It is appropriate for students seeking to further their understanding, and skill in selling and the sales process. The prerequisites are MKTG.310 and MKTG.341. | LEC | 3 | 3 |
| MKTG | 460 | MARKETING MANAGEMENT | Takes a holistic approach to marketing management by integrating theoretical marketing perspectives into system models. Course analyses apply problem solving skills to strategic and theoretical issues in marketing systems such as products, services, pricing, places, ideas, and organizations. Marketing concepts are integrated with advanced sciences such as economics, behavioral sciences, management, and mathematics. Three lecture hours per week. May be offered in traditional and distance education formats. Prerequisite: MKTG.310, MKTG.330 plus six additional credits in Marketing. | LEC | 3 | 3 |

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| MKTG | 480 | BUS-TO-BUS MARKETING | Explores strategies and principles for marketing products and services to industrial, commercial and governmental markets. Compares buying behavior of institutional markets to consumer markets and investigates the concept of the buying center. Develops and explicates the concepts of identifying, understanding, creating, and delivering customer value, the value chain, and the strategic implications of value networks. Introduces and develops concepts and tools for new offering realization, customer relationship management, and the management of services. Emphasizes the importance of the sales force and sales force management in business markets. Analyzes changing business and market structures, including the increasingly global nature of business markets. This course is offered as an elective in the marketing discipline. Three lecture hours per week. Prerequisite: MKTG.310. | LEC | 3 | 3 |
| MKTG | 510 | MKTG DIGITAL | Provides an overview of modern marketing theory and practice, analyzing marketing from both societal and managerial perspectives. Introduces digital applications and components of the marketing mix, including products and services, pricing, distribution systems, and promotion combinations. Emphasizes the personalized human experience, leveraging content marketing, and how marketing has transformed due to technology and social engagement. Prerequisite: Graduate Standing. | LEC | 3 | 3 |
| MKTG | 552 | MKTG RES ANALYTIC | Provides a managerial and practical grounding in marketing research theories, processes, practices, and technologies. Develops student skills in research design principles, research practices, and data analytic techniques (statistical analysis and drawing of analytic insights from data to make better business decisions) to issues in marketing strategy and tactics. Prerequisites: Graduate Standing and MKTG 510. | LEC | 3 | 3 |
| MUSIC | 100 | RECITAL ATTENDANCE | Documents recital attendance requirement for all tracks of the Bachelor of Arts in Music. May be repeated at zero credit each semester. | LAB | 0 | 0 |
| MUSIC | 101 | MUSIC LISTENING | Provides an approach to music listening through study of basic vocal and instrumental styles from Ancient Greece and the Middle Ages through the current day, with analysis of various masterpieces, composers and musical forms. Requires no previous musical experience. This is a recommended first course in non-applied music. This course earns three GEPs toward Goal 7 Arts and Humanities in general education. Prerequisites: None. | LEC | 3 | 3 |
| MUSIC | 102 | WORLD MUSIC | Explores the musical traditions and historical relevance of several different cultures from around the world, including India, Africa, Ireland, Japan, Bali, Latin America, China, and Native America. Through the use of a selected text, website references, and a series of selected listening examples; the student's knowledge of these musical cultures will be broadened. There will also be a "hands-on" aspect of the course where the students will be able to experience some of the musical styles through performance. Requires no previous musical experience. Offered Fall and Spring semesters. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Three hours lecture per week. Prerequisite: None. | LEC | 3 | 3 |
| MUSIC | 105 | MUSIC LITERATURE | Provides specialized instruction for music students to prepare them for the more detailed work in Music History I and II and other required music history courses. Lectures, discussion will include styles and elements of the music itself, as well as instruments, aesthetics, multicultural influences and genres found in the musical art. Emphasis will be placed on acquiring a working knowledge of compositions in the standard canon of Western classical music. Prerequisite: music major or permission of the instructor. This course earns three GEPs toward Goal 7 Arts and Humanities in general education. | LEC | 3 | 3 |
| MUSIC | 106 | MAROON & GOLD BAND | Performs music of varied styles and periods. Marching band each fall, concert band each spring. Requires 5 hours per week each fall and 4 hours per week each spring. | ACT | 0 | 1 |

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| MUSIC | 107 | UNIV COMM ORCHESTRA | Performs music appropriate to the symphony orchestra. Requires 3 hours per week. Rehearses Monday evenings. Election for wind and percussion players requires permission of the instructor. Prerequisites: By audition only. | ACT | 0 | 1 |
| MUSIC | 108 | CONCERT CHOIR | Performs choral music of varied styles and periods. Membership by audition only. Requires 4 hours per week. | ACT | 0 | 1 |
| MUSIC | 109 | WOMENS CHORAL | Performs varied styles from popular to masterworks. Requires 3 hours per week. No audition required. | ACT | 0 | 1 |
| MUSIC | 110 | HUSKY SINGERS | Performs varied music for men's chorus. Requires 2 hours per week. No audition required. | ACT | 0 | 1 |
| MUSIC | 112 | JAZZ ENSEMBLE | | ACT | 0 | 1 |
| MUSIC | 172 | GITAR ENSEMBLE | Provides its memebers with the skills needed to perform music of varied styles and periods written or transcribed for guitar ensemble. Three hours per week for zero-1 credit. May be repeated. Prerequisites: By audition only. | LEC | 0 | 1 |
| MUSIC | 173 | PERCUSSION ENSEMBLE | Provides its members with the skills needed to perform a variety of percussion instruments in a small and large ensemble setting. Meets for 3 hours per week for zero-one credit. May be repeated. Prerequisites: By audition only. | ACT | 0 | 1 |
| MUSIC | 204 | CLASS PIANO 1 | Provides group piano instruction for the beginner. Emphasizes solo playing, sight-reading and creative accompaniment. Requires 2 hours per week. Limited seating. | LEC | 2 | 2 |
| MUSIC | 205 | CLASS PIANO 2 | Develops independence in solo playing and accompanying. Continuation of MUSIC.204 or students with demonstrated abilities. Requires 2 hours per week. Consent of instructor. | LEC | 2 | 2 |
| MUSIC | 208 | BRASS METHODS 2 | Brass Methods II is designed to prepare the student to teach trombone, euphonium and tuba to music students in elementary and secondary schools, through performance on the instruments and study of pedagogical methods. Music majors or permission of the instructor. | LAB | 1 | 1 |
| MUSIC | 213 | VIOLIN | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at one semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 214 | VIOLA | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at one semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 215 | VIOLONCELLO | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 216 | DOUBLE BASS | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 230 | VOICE | Private instruction for students with demonstrated vocal abilities. One-half hour per week. May be repeated at 1 semester hour each election. Prerequisite: MUSIC.203 except music majors and declared music minors. Consent of instructor. | TUT | 1 | 1 |

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| MUSIC | 234 | GITAR | One half hour guitar lesson and weekly one hour performance lab for students with demonstrated ability or potential. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 235 | PIANO | Private instruction for students with previous piano study. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 240 | TRUMPET | Private instructions for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 241 | HORN | | TUT | 1 | 1 |
| MUSIC | 242 | TROMBONE | | TUT | 1 | 1 |
| MUSIC | 243 | BARITONE | | TUT | 1 | 1 |
| MUSIC | 244 | TUBA | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 249 | AURAL SKILLS I | Focuses on aural recognition and performance of basic rhythms and melodies, recognition of harmonic progressions, improvement of sight-singing skills, and some melodic and harmonic keyboard facility. First aural skills course in a sequence specifically designed for music majors and minors. Prerequisites: To be taken concurrently MUSIC.250 and Music major or minor, or permission of instructor. Meets two hours per week. The course is offered in the fall semester. | LAB | 1 | 1 |
| MUSIC | 250 | DIATONIC HARMONY | Focuses on music fundamentals including notation, rhythm, key signatures, scales, intervals, triads, seventh chords, part writing and analysis. This course is designed as the first music theory course in a sequence for music majors and minors. Prerequisites: To be taken concurrently with MUSIC.249 and Music major or minor, or permission of instructor. This course is offered in the Fall semester. | LEC | 3 | 3 |
| MUSIC | 251 | FLUTE | | TUT | 1 | 1 |
| MUSIC | 252 | OBOE | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 253 | CLARINET | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 254 | BASSOON | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 255 | SAXOPHONE | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 256 | PERCUSSION | Private instruction with snare, timpani and mallets for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |

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| MUSIC | 269 | GUITAR MUSIC MAJOR | One hour guitar lesson and weekly one hour performance lab for students electing the specializations within the BA in Music that require an hour lesson. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. Consent of instructor. | TUT | 2 | 2 |
| MUSIC | 270 | VIOLIN MUS MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 271 | VIOLA MUS MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 272 | VIOLONCELLO MUS MAJ | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 273 | DOUBLE BASS MUS MAJ | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 275 | VOICE MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied voice specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 276 | PIANO MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 277 | TRUMPET MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 278 | HORN MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 279 | TROMBONE MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 280 | BARITONE MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 281 | TUBA MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 282 | FLUTE MUSIC MAJOR | Two weekly half-hour lessons for students electing applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 283 | OBOE MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 284 | CLARINET MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |

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| MUSIC | 285 | BASSOON MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 286 | SAXOPHONE MUS MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 287 | PERCUSSION MUSIC MAJ | One hour percussion lesson and weekly one hour performance lab for students electing the specializations within the BA in Music that require an hour lesson. May be repeated at two semester hours each election for maximum of 16 semester hours. Prerequisites: For music majors or permission of instructor. | TUT | 2 | 2 |
| MUSIC | 302 | KEYBOARD SKILLS 2 | Provides opportunity for majors in music to gain proficiency at the keyboard. May be repeated. Prerequisite: Keyboard Skills I or permission of the instructor. | TUT | 2 | 2 |
| MUSIC | 305 | SP TOPICS MUSIC EDUC | Provides a study of music beyond currently available course topics. Instructor develops a one-time-only study. Information is available by contacting the Department of Music. Offered as needed. | LEC | 1 | 1 |
| MUSIC | 306 | MAROON & GOLD BAND | Performs music of varied styles and periods. Marching band each fall, concert band each spring. Requires 5 hours per week each fall and 4 hours per week each spring. | ACT | 0 | 1 |
| MUSIC | 307 | UNIV COMM ORCHESTRA | Performs music appropriate to the symphony orchestra. Requires 3 hours per week. Rehearses Monday evenings. Election for wind and percussion players requires permission of the instructor. Prerequisites: By audition only. | ACT | 0 | 1 |
| MUSIC | 308 | CONCERT CHOIR | Performs choral music of varied styles and periods. Membership by audition only. Requires 4 hours per week. | ACT | 0 | 1 |
| MUSIC | 309 | WOMENS CHORAL | Performs varied styles from popular to masterworks. Requires 3 hours per week. No audition required. | ACT | 0 | 1 |
| MUSIC | 310 | HUSKY SINGERS | Performs varied music for men's chorus. Requires 2 hours per week. No audition required. | ACT | 0 | 1 |
| MUSIC | 312 | JAZZ ENSEMBLE | Performs jazz, swing and other forms representing the big band style. Requires 3 hours per week. Election requires permission of the instructor. Audition may be necessary. | ACT | 0 | 1 |
| MUSIC | 313 | VIOLIN | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at one semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 314 | VIOLA | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at one semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 315 | VIOLONCELLO | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 316 | DOUBLE BASS | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |

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| MUSIC | 322 | MUSIC HIST 1750-PRES | Provides an overview of music history from the Classical era to the present time. Includes discussion of composers and significant persons, works and development of forms and genres during this period. Prerequisite 35.105 or consent of instructor. | LEC | 3 | 3 |
| MUSIC | 328 | CHORAL CONDUCT & METH | Examines the development of techniques and abilities for participating in and supervising choral ensembles. Stresses tone production, proper breathing, choral conducting and reading of appropriate literature. Prerequisite: Music major or permission of instructor. | LAB | 2 | 2 |
| MUSIC | 329 | INST CONDUCT & METH | Develops skills in baton technique and score reading with emphasis on practical application in instrumental organizations. Prerequisites: music major and 35.211. | LAB | 2 | 2 |
| MUSIC | 330 | VOICE | | TUT | 1 | 1 |
| MUSIC | 331 | ELEM METH CURR MUSIC | This course will provide the knowledge and skills necessary to teach music successfully in elementary schools. Education theories must be applied in practical situations such as the creation of lesson plans and the teaching of those lesson plans. Familiarity with computer assisted music software, familiarity with the legal aspects of teaching music in elementary schools, and required elementary school observations will be included. Observations in elementary schools required. | LEC | 3 | 3 |
| MUSIC | 332 | AUDIO RECORDING 2 | This course will build upon the knowledge gained in Basic Audio Recording and will delve more deeply into computer-based hard disk recording using industry standard software: Sonar, Sound Forge, Cakewalk and Pro Tools. It will also explore sound design for the Internet and web pages. Prerequisite: Basic Audio Recording. | LEC | 3 | 3 |
| MUSIC | 333 | AUDIO RECORDING LAB | This course will allow music majors in the audio recording track to work on individual projects as directed by the professor. The projects will be targeted to build upon skills learned in 35.219 Basic Audio Recording, as well as new concepts and allow the students to build a portfolio of their work as an aide to future employment in the field. Prerequisite: Basic Audio Recording | LAB | 1 | 1 |
| MUSIC | 334 | GUITAR | One half hour guitar lesson and weekly one hour performance lab for students with demonstrated ability or potential. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 335 | PIANO | Private instruction for students with previous piano study. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 340 | TRUMPET | Private instructions for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 341 | HORN | | TUT | 1 | 1 |
| MUSIC | 342 | TROMBONE | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 343 | BARITONE | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |

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| MUSIC | 344 | TUBA | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 349 | APP MUSIC COMPOSITION | Provides private instruction in music composition. For students with demonstrated ability for potential. One half hour per week. This course may be repeated for credit. Prerequisites: 35.210, 35.211 and the consent of instructor required. | TUT | 1 | 1 |
| MUSIC | 351 | FLUTE | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 352 | OBOE | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 353 | CLARINET | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 354 | BASSOON | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 355 | SAXOPHONE | Private instruction for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 356 | PERCUSSION | Private instruction with snare, timpani and mallets for students with demonstrated ability or potential. One-half hour per week. May be repeated at 1 semester hour each election. Consent of instructor. | TUT | 1 | 1 |
| MUSIC | 372 | GUITAR ENSEMBLE | Provides its members with the skills needed to perform music of varied styles and periods written or transcribed for guitar ensemble. Three hours per week for zero-1 credit. May be repeated. Prerequisites: By audition only. | ACT | 0 | 1 |
| MUSIC | 373 | PERCUSSION ENSEMBLE | Provides its members with the skills needed to perform a variety of percussion instruments in a small and large ensemble setting. Meets for 3 hours per week for zero-one credit. May be repeated. Prerequisites: By audition only. | ACT | 0 | 1 |
| MUSIC | 379 | AURAL SKILLS III | Develops the musical ear through progressive training in difficult rhythms and the recognition and performance of chromatic melodies and harmonic progressions involving modulations. Improves sight-singing skills focusing on 20th and 21st century materials. This course is the third aural skills course in a sequence specifically designed for music majors and minors. Meets for 3 hours per week. To be taken concurrently with Music 380: Advanced Harmony. Prerequisite: Music 259: Aural Skills II (with a minimum grade of C), or permission of instructor. This course will be taught in the fall semester. | LAB | 2 | 2 |
| MUSIC | 380 | ADVANCED HARMONY | Develops a theoretical understanding of more complex chromatic elements in music theory while incorporating analysis of formal structures of music. Explores music of late Romantic through early 20th century. The course is designed for music majors as the third music theory course in the music theory sequence and should be taken concurrently with MUSIC.379 Aural Skills III. Prerequisite: MUSIC. 260: Chromatic harmony (with a minimum grade of c), or permission of instructor. Offered in the fall semester. | LEC | 3 | 3 |

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| MUSIC | 411 | ORCHESTRATION/ARR | Examines instrumental transposition, idioms, score writing and analysis. Fifth music theory course in a sequence specifically designed for music majors. Requires 3 hours per week. Prerequisite: Music 380: Advanced Harmony (with a minimum grade of C), or permission of instructor. This course is offered in fall semesters. | LAB | 2 | 2 |
| MUSIC | 425 | AUDIO RECORDING IV | Introduces the techniques involved in live sound reinforcement and recording. Very different from the controlled environment of the recording studio, live sound recording and reinforcement offers unique challenges to the audio engineer. This is a lab course, which meets for three hours per week. Prerequisites: 35.332. | LEC | 2 | 2 |
| MUSIC | 427 | SP TOPICS IN AUDIO | Offers topics in audio recording that extend and expand upon previously studied areas, or that are not covered in the regular audio recording sequence. This course is required for music majors in the Audio/Video Recording track. This course is offered in the Spring Semester of even years. May be repeated for credit. Prerequisite: For music majors, MUSIC.332. | LEC | 3 | 3 |
| MUSIC | 469 | GUITAR MUSIC MAJOR | One hour guitar lesson and weekly one hour performance lab for students electing the specializations within the BA in Music that require an hour lesson. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. Consent of instructor. | TUT | 2 | 2 |
| MUSIC | 470 | VIOLIN MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 471 | VIOLA MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 472 | VIOLONCELLO MUS MAJ | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 473 | DOUBLE BASS MUS MAJ | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 475 | VOICE MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied voice specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 476 | PIANO MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 477 | TRUMPET MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 478 | HORN MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 479 | TROMBONE MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |

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| MUSIC | 480 | BARITONE MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 481 | TUBA MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 482 | FLUTE MUSIC MAJOR | Two weekly half-hour lessons for students electing applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 483 | OBOE MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 484 | CLARINET MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 485 | BASSOON MUSIC MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 486 | SAXOPHONE MUS MAJOR | Two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music program. May be repeated at 2 semester hours each election for a maximum of 16 semester hours. | TUT | 2 | 2 |
| MUSIC | 487 | PERCUSSION MUSIC MAJ | One hour percussion lesson and weekly one hour performance lab for students electing the specializations within the BA in Music that require an hour lesson. May be repeated at two semester hours each election for maximum of 16 semester hours. Prerequisites: For music majors or permission of instructor. | TUT | 2 | 2 |
| MUSIC | 495 | TCH MUSIC ED EXP 1 | Provides opportunities for direct participation in teaching. Places students in classrooms with public or private school teachers. The student's main interest determines the assignment: one experience is wholly with the student's main interest in music, one experience is divided in half to cover the remaining requirements. The total experiences must include elementary, middle, and high school experience. The total experiences must also include general music, choral and instrumental teaching. Prerequisite: All other required music education courses. | FLD | 6 | 6 |
| MUSIC | 496 | TCH MUSIC ED EXP 2 | Provides opportunities for direct participation in teaching. Places students in classrooms with public or private school teachers. The student's main interest determines the assignment: one experience is wholly with the student's main interest in music, one experience is divided in half to cover the remaining requirements. The total experiences must include elementary, middle, and high school experience. The total experiences must also include general music, choral and instrumental teaching. Prerequisite: All other required music education courses. | FLD | 6 | 6 |
| NURSING | 100 | PERS HLTH: PER PERS | Provides students with information and tools to maintain and improve their personal health through accountability for health behaviors and decision making. Major themes include exploration of: many dimensions of health; factors impacting the health and wellness of individuals; individual behaviors which promote change and improved health for self and others and; current health issues for individuals and society. This course is intended for students of all disciplines. May be offered in traditional and distance education formats. This course earns two GEPs toward Goal 9 Healthy Living and one GEP toward Goal 10 Citizenship in general education. Three (3) hours of lecture per week. Prerequisites: None. | LEC | 3 | 3 |

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| NURSING | 211 | NUTRITION | Introduces the student to the basic principles of the science and fundamentals of human nutrition and ways in which nurses can apply these scientific principles to promote an optimal level of health and wellness across the lifespan. The interrelationships among nutrition, food, and the environment as they impact health status are discussed with an emphasis placed on the multiple factors that influence food intake. Diet therapy and dietary modifications to treat chronic disease is integrated throughout the course. May be offered in traditional and distance education formats. Three (3) hours of lecture/discussion per week. Prerequisites: BIOLOGY.173, BIOLOGY.174, CHEM.101, and CHEM.108. | LEC | 3 | 3 |
| NURSING | 212 | PHARMACOLOGY | This course provides a foundation in pharmacology for pharmacologic content integrated throughout the curriculum. Historic, legal, ethical, social and political dimensions of pharmacotherapeutics are explored. Prerequisites: BIOLOGY.173, BIOLOGY.174, BIOLOGY.240 or BIOLOGY.242 (transfer course only), NURSING.210, NURSING.214 and NURSING.215. Concurrent with NURSING.213. | LEC | 3 | 3 |
| NURSING | 213 | FOUND NURS PRACTICE | Focuses on the application of nursing process to promote optimal levels of functioning of the adult and older adult. Students apply theory to the care of the individual client as they begin to assume the nursing roles of practitioner, teacher, leader/manager and consumer of research. Students expand their knowledge and application of major nursing concepts as they provide health care to clients in non life-threatening situations. Laboratory simulations and computer instruction enable the student to develop psychomotor skills basic to nursing practice. Instructional strategies include clinical experiences with clients in community and hospital settings. Three hours of class and 6 hours of clinical per week. Prerequisites: NURSING.210, NURSING.214, NURSING.215 and BIOLOGY.240 or BIOLOGY.242 (transfer course only). Concurrent with NURSING.211 and NURSING.212. | CLN | 5 | 5 |
| NURSING | 213 | FOUND NURS PRACTICE | Focuses on the application of nursing process to promote optimal levels of functioning of the adult and older adult. Students apply theory to the care of the individual client as they begin to assume the nursing roles of practitioner, teacher, leader/manager and consumer of research. Students expand their knowledge and application of major nursing concepts as they provide health care to clients in non life-threatening situations. Laboratory simulations and computer instruction enable the student to develop psychomotor skills basic to nursing practice. Instructional strategies include clinical experiences with clients in community and hospital settings. Three hours of class and 6 hours of clinical per week. Prerequisites: NURSING.210, NURSING.214, NURSING.215 and BIOLOGY.240 or BIOLOGY.242 (transfer course only). Concurrent with NURSING.211 and NURSING.212. | LEC | 5 | 5 |
| NURSING | 217 | ALCOHOL: USE & ABUSE | Provides a comprehensive overview of alcohol: its use and abuse. The nature of alcohol problems, causes and consequences of alcohol use, abuse and dependence in terms of epidemiological, physical, gender, psychological, sociological, treatment, and public policy perspectives are discussed. Controversial issues and myths regarding alcohol consumption are critically analyzed from health, ethical, moral, spiritual, sociocultural, legal and political frameworks. Opportunities for reflection on and examination of personal belief system about alcohol use within the context of personal and social responsibility are provided. Because alcohol abuse and dependence are leading public health and legal problems in the U.S., this course is intended for students in all disciplines. This course earns two GEPs toward Goal 9 Healthy Living and one GEP toward Goal 10 Citizenship in general education. Three (3) hours of lecture per week. May be offered in traditional or distance education formats. Prerequisites: None. | LEC | 3 | 3 |

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| NURSING | 230 | DRUG: USE & ABUSE | Uses a multidimensional approach that emphasizes the confounding variables of biology, culture, family systems, to focus on critical issues relating to drug use and abuse. This course considers a variety of perspectives related to drugs and drug use - pharmacological, behavioral, historical, legal and clinical. The latest information on drugs, their effects on the human body and behavior, the family, and society is discussed. Substance abuse, substance dependence, intervention, referral and treatment are examined. Drug control policies, prevention, and legal aspects of drug use and abuse are explored. Opportunities for gathering and analyzing current information, and reflection on/examination of personal belief system about drug use and abuse within the context of personal and social responsibility are provided. Because drug use, abuse and dependence are leading public health and legal problems in the U.S., this course is intended for all majors. This course earns one GEP toward Goal 2 Information Literacy and two GEPs toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. Three hours lecture/discussion per week. Prerequisites: None. | LEC | 3 | 3 |
| NURSING | 240 | CONTEMP WOMEN'S HLTH | Focuses on women's health across the lifespan that considers the impact of culture and diversity. Students will examine health issues as they relate to women across ethnic, racial, religious and geographical boundaries. The content will contain an overview of physiologic changes, self-care issues, personal enrichment, relationships with partners, sexual health and fertility, childbearing, routine examinations and procedures. The course is designed for students interested in health, women's studies, or those desiring personal enrichment and an understanding of contemporary women's health concerns. This course earns two GEPs toward Goal 4 Cultures and Diversity and one GEP toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| NURSING | 306 | INT RES & EBP IN NSG | Introduces students to the concepts, skills, processes, and role of research in nursing and evidence-based practice in order to facilitate their development as consumers of research and in cultivating a spirit of inquiry in clinical practice. Major emphases are placed on the contribution of research and evidence to the discipline and to the students' role in critically appraising evidence on which to base clinical decisions. May be offered in traditional and distance education formats. Prerequisites: A Basic Statistics Course. | LEC | 3 | 3 |
| NURSING | 311 | ADULT HEALTH ONE | Focuses on the application of the nursing process to promote and restore the health of older adults with chronic or potentially life threatening illnesses. Students apply developmental theory related to the older adult while providing health care. Increasing independence in nursing roles occurs as students collaborate with health care providers in a variety of settings. Three hours theory and 14 hours clinical per week. Prerequisites: BIO 240, NURSING 210, NURSING 211, NURSING 212, NURSING 213, NURSING 214 and NURSING 215 | CLN | 7 | 7 |
| NURSING | 311 | ADULT HEALTH ONE | Focuses on the application of the nursing process to promote and restore the health of older adults with chronic or potentially life threatening illnesses. Students apply developmental theory related to the older adult while providing health care. Increasing independence in nursing roles occurs as students collaborate with health care providers in a variety of settings. Three hours theory and 14 hours clinical per week. Prerequisites: BIO 240, NURSING 210, NURSING 211, NURSING 212, NURSING 213, NURSING 214 and NURSING 215 | LEC | 7 | 7 |

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| NURSING | 312 | MATN/CHLD HLTH NUR | Focuses on family-centered nursing and application of diverse theories, concepts and principles synthesized from the arts, sciences and humanities to the professional practice of maternal and child health nursing. Students use critical thinking, effective communication skills, information and technology and assessment findings to provide safe, evidence-based nursing care to women, neonates, children, and their families in community and hospital based settings. Students incorporate professional values, and behaviors as they collaborate with a variety of health care providers. Prerequisites: Sophomore level nursing courses: NURSING.210, NURSING.211, NURSING.212, NURSING.213, NURSING.214, NURSING.215. | CLN | 8 | 8 |
| NURSING | 312 | MATN/CHLD HLTH NUR | Focuses on family-centered nursing and application of diverse theories, concepts and principles synthesized from the arts, sciences and humanities to the professional practice of maternal and child health nursing. Students use critical thinking, effective communication skills, information and technology and assessment findings to provide safe, evidence-based nursing care to women, neonates, children, and their families in community and hospital based settings. Students incorporate professional values, and behaviors as they collaborate with a variety of health care providers. Prerequisites: Sophomore level nursing courses: NURSING.210, NURSING.211, NURSING.212, NURSING.213, NURSING.214, NURSING.215. | LEC | 8 | 8 |
| NURSING | 314 | CARE OF OLDER ADULTS | Provides a comprehensive overview of the unique health care needs of the older adult. The target audience for this course is junior-level baccalaureate nursing students also enrolled in the Adult Health One (NURSING 311) course. The focus is on development of competency in providing evidence-based health care to older adults and their families across the continuum of health care settings. Attention is given to the complexity of acute and chronic conditions and geriatric syndromes, recognition of risk factors, valid assessment processes, and the development of individualized care. The importance of interdisciplinary collaboration is addressed. Factors influencing the aging process such as age related physical changes, gender, race, culture, spirituality, roles, relationships, lifestyle, and societal beliefs are discussed. Controversial issues and myths related to aging, elder care, and death are critically analyzed from developmental, ethical, moral, spiritual, sociocultural, legal, and health care policy frameworks for impact on aging and wellness. Two (2) hours of lecture per week. May be offered in traditional and distance education formats. Prerequisites: NURSING.213. | LEC | 2 | 2 |
| NURSING | 410 | PUBLIC HLTH NURSING | Focuses on the use of demography, biostatistics, epidemiology, and population assessment to promote the health of individuals, aggregates, and populations. Participation in aggregate and population-focused activities such as assessment, planning, and implementation is cultivated. Collaboration with others to implement evidenced-base strategies for clinical prevention of illness, injury, disability, and premature death is advanced. Role development will be fostered through independent and interdependent activities with groups and organizations providing care with attention to health disparity, vulnerability, and culturally diverse populations. May be offered in traditional and distance education formats. This course earns two GEPs toward Goal 4 Cultures and Diversity and two GEPs toward Goal 10 Citizenship in general education. Prerequisites: NURSING.306, NURSING.311, NURSING.312, NURSING.314; NURSING.305 and NURSING.306 for RNs. | CLN | 5 | 5 |

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| NURSING | 410 | PUBLIC HLTH NURSING | Focuses on the use of demography, biostatistics, epidemiology, and population assessment to promote the health of individuals, aggregates, and populations. Participation in aggregate and population-focused activities such as assessment, planning, and implementation is cultivated. Collaboration with others to implement evidenced-base strategies for clinical prevention of illness, injury, disability, and premature death is advanced. Role development will be fostered through independent and interdependent activities with groups and organizations providing care with attention to health disparity, vulnerability, and culturally diverse populations. May be offered in traditional and distance education formats. This course earns two GEPs toward Goal 4 Cultures and Diversity and two GEPs toward Goal 10 Citizenship in general education. Prerequisites: NURSING.306, NURSING.311, NURSING.312, NURSING.314; NURSING.305 and NURSING.306 for RNs. | LEC | 5 | 5 |
| NURSING | 411 | PSYCH/MENT HLTH NURS | Focuses on the application of diverse theories, concepts and principles synthesized from the arts, sciences and humanities to the professional practice of psychiatric-mental health nursing. Students use critical thinking, effective communication skills, information and technology, and assessment findings to diagnose, plan, deliver and evaluate quality patient-centered care. Students incorporate professional values and behaviors as they employ a "therapeutic use of self" and function in collaborative roles with clients, support systems, and other providers to deliver holistic, safe, evidence-based care within a diverse, global society. Three hours theory and eight hours clinical per week. Prerequisites: NURSING.306, NURSING.311, NURSING.312 and NURSING.314. | CLN | 5 | 5 |
| NURSING | 411 | PSYCH/MENT HLTH NURS | Focuses on the application of diverse theories, concepts and principles synthesized from the arts, sciences and humanities to the professional practice of psychiatric-mental health nursing. Students use critical thinking, effective communication skills, information and technology, and assessment findings to diagnose, plan, deliver and evaluate quality patient-centered care. Students incorporate professional values and behaviors as they employ a "therapeutic use of self" and function in collaborative roles with clients, support systems, and other providers to deliver holistic, safe, evidence-based care within a diverse, global society. Three hours theory and eight hours clinical per week. Prerequisites: NURSING.306, NURSING.311, NURSING.312 and NURSING.314. | LEC | 5 | 5 |
| NURSING | 412 | ADULT HEALTH NURSE 2 | Focuses on providing care for adult clients with complex needs. Students employ critical thinking to problem-solving and make decisions. Student use nursing process, therapeutic skills and technology in assisting these clients to attain an optimal level of functioning. They collaborate with clients and the interdisciplinary team to promote, maintain and restore optimal health to a variety of clients. Learning experiences provide opportunities for students to develop proficiency as a practitioner, teacher, leader/manager, and consumer of research. The course promotes integration of values into professional behaviors and accountability for personal and professional growth. Three hours Theory and twelve to sixteen hours clinical per week. Prerequisites: NURSING.306, NURSING.311, NURSING.312, and NURSING.314. | CLN | 7 | 7 |
| NURSING | 412 | ADULT HEALTH NURSE 2 | Focuses on providing care for adult clients with complex needs. Students employ critical thinking to problem-solving and make decisions. Student use nursing process, therapeutic skills and technology in assisting these clients to attain an optimal level of functioning. They collaborate with clients and the interdisciplinary team to promote, maintain and restore optimal health to a variety of clients. Learning experiences provide opportunities for students to develop proficiency as a practitioner, teacher, leader/manager, and consumer of research. The course promotes integration of values into professional behaviors and accountability for personal and professional growth. Three hours Theory and twelve to sixteen hours clinical per week. Prerequisites: NURSING.306, NURSING.311, NURSING.312, and NURSING.314. | LEC | 7 | 7 |

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| NURSING | 414 | LDRSHP & MGT NURSING | Focuses on management principles; including leadership theories and concepts, decision-making processes, budgeting guidelines and case management concepts. Content on public policy and health care economics is incorporated. Principles from this course are integrated into concurrent clinical courses to enhance professional role development for pre-licensure students and RN-BSN students. Three hours Theory and three hours practicum per week. May be offered in traditional and distance education formats. Prerequisites: NURSING.306, NURSING.311, NURSING.312, and NURSING.314 OR NURSING.305 for RN-BSN students. | CLN | 4 | 4 |
| NURSING | 414 | LDRSHP & MGT NURSING | Focuses on management principles; including leadership theories and concepts, decision-making processes, budgeting guidelines and case management concepts. Content on public policy and health care economics is incorporated. Principles from this course are integrated into concurrent clinical courses to enhance professional role development for pre-licensure students and RN-BSN students. Three hours Theory and three hours practicum per week. May be offered in traditional and distance education formats. Prerequisites: NURSING.306, NURSING.311, NURSING.312, and NURSING.314 OR NURSING.305 for RN-BSN students. | LEC | 4 | 4 |
| NURSING | 501 | THEOR ROLE DEV ADV | Focuses on the examination of philosophical and theoretical constructs related to role development in advanced nursing practice. Advanced practice domains of clinical practice, teaching and coaching, consultation, intra and inter-professional collaboration, care coordination, conflict resolution, research, nursing theory, leadership, quality improvement, advocacy, and ethical decision-making are explored. The reciprocal interrelationships among theory, theoretical frameworks and conceptual models, domains of practice, and research as integral components of nursing science development, evidence-based advanced nursing practice, education, and leadership are investigated. Theory development and strategies for the evaluation and testing of theories are explored. The student will identify concepts, principles and strategies inherent in a variety of nursing and related theories, (i.e., systems, change, professional socialization, leadership, chaos, complexity, organizational, etc.) to serve as a framework for the development and enrichment of own advanced practice roles. The student will analyze and apply the tenets of a conceptual model or theory of nursing to own philosophy of advanced nursing practice and potential practice issues/situations. Three hours lecture per week. When offered as a web-based course, three hours web based instruction per week. Prerequisites: None. | LEC | 3 | 3 |
| NURSING | 502 | EPID CONT NURS PRACT | Provides a conceptual orientation and knowledge of techniques from epidemiology as a basis for all aspects of population-based practice in advanced nursing. The epidemiological perspective is presented as a framework for assessing the well-being of populations and designing, implementing, and evaluating strategic nursing and healthcare interventions. Students will apply basic epidemiological research designs in the investigation, analysis, and proposed solutions to observed patterns of health states. Three hours lecture per week. When offered as a web-based course, three hours web based instruction per week. | LEC | 3 | 3 |
| NURSING | 503 | BASES RES ADV NURS | Provides a deeper understanding and critical appraisal of nursing research for application to evidence-based practice. Application of the steps of evidence based nursing practice is stressed. The proper formulation of Population Intervention Comparison Outcome Time (PICOT) questions, learning how to search relevant databases for evidence, critically appraising the evidence, and synthesizing the research findings are all emphasized. Development of a plan for implementation of the evidence and/or for generating additional evidence to improve nursing practice is addressed. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |

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| NURSING | 507 | PHARM ACROSS LIFE APN | Provides the fundamentals of pharmacokinetic and pharmacodynamic properties of drugs across the lifespan affecting all body systems. Proper prescribing and monitoring procedures for various drug regimens used to treat common disease states are presented. Classification of pharmaceuticals will be reviewed in relation to indications for use and evidence of efficacy. Clinical usage of select drugs and rationale for drug therapy based on the relationship of physiologic factors of disease processes and drug mechanisms will be discussed. Adverse reactions, interactions, problems related to nutritional, developmental, and health status will be explored. Legalities and regulations of prescriptive privileges, sociocultural implications of drug therapy, and patient teaching are addressed. Prerequisites: NURSING.504. | LEC | 3 | 3 |
| NURSING | 508 | LIFE HEALTH ASSESS | This course focuses on developing the students competence in performing health/physical assessment across the lifespan. Learning experiences are provided for synthesizing cognitive knowledge with psychomotor skills. Throughout the course emphasis is placed on the importance of communication and observational skills in conducting a holistic assessment for the purpose of developing a thorough understanding of the individual in order to determine appropriate and effective health care, including health promotion strategies across the lifespan. This assessment includes genetic, social, environmental, functional, cultural, spiritual, psychosocial, developmental and comprehensive physical examination. Four credits theory, Two credits Clinical. Prerequisite or co-requisites: NURSING.504. | CLN | 6 | 6 |
| NURSING | 508 | LIFE HEALTH ASSESS | This course focuses on developing the students competence in performing health/physical assessment across the lifespan. Learning experiences are provided for synthesizing cognitive knowledge with psychomotor skills. Throughout the course emphasis is placed on the importance of communication and observational skills in conducting a holistic assessment for the purpose of developing a thorough understanding of the individual in order to determine appropriate and effective health care, including health promotion strategies across the lifespan. This assessment includes genetic, social, environmental, functional, cultural, spiritual, psychosocial, developmental and comprehensive physical examination. Four credits theory, Two credits Clinical. Prerequisite or co-requisites: NURSING.504. | LEC | 6 | 6 |
| NURSING | 515 | DX/MAN ADULT/AGED I | Focuses on the diagnosis and management of health problems in young adults (including late adolescents and emancipated minors), adults, and older adults (including young-old and old-old adults) in the primary care setting. Emphasis is placed on developing knowledge related to the most common diagnoses and health problems across the entire adult-older adult age spectrum in primary care. These include, but are not limited to, cardiac, respiratory, endocrine, mental health, and renal diagnoses and problems. In addition, the course addresses issues related to the role of the nurse practitioner and provides opportunities to discuss these as the student begins the transition to this advanced practice nursing role in primary care. Prerequisites: NURSING.507 (may be taken as a co-requisite) and NURSING.508. | CLN | 6 | 6 |
| NURSING | 515 | DX/MAN ADULT/AGED I | Focuses on the diagnosis and management of health problems in young adults (including late adolescents and emancipated minors), adults, and older adults (including young-old and old-old adults) in the primary care setting. Emphasis is placed on developing knowledge related to the most common diagnoses and health problems across the entire adult-older adult age spectrum in primary care. These include, but are not limited to, cardiac, respiratory, endocrine, mental health, and renal diagnoses and problems. In addition, the course addresses issues related to the role of the nurse practitioner and provides opportunities to discuss these as the student begins the transition to this advanced practice nursing role in primary care. Prerequisites: NURSING.507 (may be taken as a co-requisite) and NURSING.508. | LEC | 6 | 6 |

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| NURSING | 517 | DX/MAN CHILD & PREG WOMEN | Focuses on the assessment, diagnosis, and management of infants, toddlers, children, and pregnant women with common episodic and chronic conditions within the context of their families, social environment, and culture. Emphasis is on the developmental stages, age appropriate primary and secondary prevention and risk reduction strategies using evidence-based guidelines. In addition, the course addresses issues related to the role of the nurse practitioner and provides opportunities to discuss these as the student begins the transition to the family nurse practitioner role in primary care. Prerequisites: NURSING.515 and NURSING.516. | CLN | 6 | 6 |
| NURSING | 517 | DX/MAN CHILD & PREG WOMEN | Focuses on the assessment, diagnosis, and management of infants, toddlers, children, and pregnant women with common episodic and chronic conditions within the context of their families, social environment, and culture. Emphasis is on the developmental stages, age appropriate primary and secondary prevention and risk reduction strategies using evidence-based guidelines. In addition, the course addresses issues related to the role of the nurse practitioner and provides opportunities to discuss these as the student begins the transition to the family nurse practitioner role in primary care. Prerequisites: NURSING.515 and NURSING.516. | LEC | 6 | 6 |
| NURSING | 522 | FAM HEALTH THEORY | Provides the student with a broad, systematic perspective on human functioning through analysis and comparison of contrasting models and theories of family health and family nursing. Concepts are then applied to the understanding and assessment of the stages of the normal life-cycle from a multi-cultural, multi-generational perspective upon which to base clinical practice. Students will apply family system concepts and methods to problems related to health and illness faced by families including families experiencing physical and/or mental alterations in health. Relevant research is discussed throughout. Prerequisites: None. | LEC | 3 | 3 |
| NURSING | 533 | ORG LEADERSHIP | Applies managerial theories and concepts to nursing leadership in health care delivery systems and the patient experience across multiple levels of care in a healthcare organization. The course focuses on the synthesis and use of managerial principles, organizational behavior, management information systems and financial accounting related to the ongoing transformation of health care delivery. The focus of the clinical experience within this course is the application of theoretical and practical knowledge for nurse leaders to enumerate the elements of leadership identify needed skill sets in contemporary, complex organizations. | CLN | 6 | 6 |
| NURSING | 533 | ORG LEADERSHIP | Applies managerial theories and concepts to nursing leadership in health care delivery systems and the patient experience across multiple levels of care in a healthcare organization. The course focuses on the synthesis and use of managerial principles, organizational behavior, management information systems and financial accounting related to the ongoing transformation of health care delivery. The focus of the clinical experience within this course is the application of theoretical and practical knowledge for nurse leaders to enumerate the elements of leadership identify needed skill sets in contemporary, complex organizations. | LEC | 6 | 6 |
| NURSING | 534 | ADULT GERO SEM | Provides an opportunity for the student to apply knowledge gained throughout the program while gaining entry-level competence in the clinical area. Both clinical and professional role issues are addressed in the theory seminar. Clinical issues will include management of complex patients. Professional issues to be addressed will include assessment of organizations as practice settings, quality of care and risk management, and professional responsibilities of practice. These issues include the influence of, and on, health policy, continuing education, the health education of the community, and clinical research. The focus of the course throughout is on developing confidence and competence as an adult/gerontology primary care nurse practitioner. Prerequisite: NURSING.516. | CLN | 6 | 6 |

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| NURSING | 534 | ADULT GERO SEM | Provides an opportunity for the student to apply knowledge gained throughout the program while gaining entry-level competence in the clinical area. Both clinical and professional role issues are addressed in the theory seminar. Clinical issues will include management of complex patients. Professional issues to be addressed will include assessment of organizations as practice settings, quality of care and risk management, and professional responsibilities of practice. These issues include the influence of, and on, health policy, continuing education, the health education of the community, and clinical research. The focus of the course throughout is on developing confidence and competence as an adult/gerontology primary care nurse practitioner. Prerequisite: NURSING.516. | LEC | 6 | 6 |
| NURSING | 540 | AD ANES NSG PRC CIII | Emphasize the development of an independent practitioner who can assume a leadership role as a member of the anesthesiology community. Performance improvement measures are addressed in this last practicum course. To enhance the scholarly development of the student, additional time is spent on an area of interest with the expectation that meaningful clinical research will be conducted. An evidence-based practice issue will be explored and will culminate in a paper submitted for publication and a professional presentation. An additional focus of this course is on preparation for the National Certification examination. Prerequisites: NURSING.523, 524, 525, 526, 527, 528, 535, 536, 537, 538 and 539. | CLN | 5 | 5 |
| NURSING | 540 | AD ANES NSG PRC CIII | Emphasize the development of an independent practitioner who can assume a leadership role as a member of the anesthesiology community. Performance improvement measures are addressed in this last practicum course. To enhance the scholarly development of the student, additional time is spent on an area of interest with the expectation that meaningful clinical research will be conducted. An evidence-based practice issue will be explored and will culminate in a paper submitted for publication and a professional presentation. An additional focus of this course is on preparation for the National Certification examination. Prerequisites: NURSING.523, 524, 525, 526, 527, 528, 535, 536, 537, 538 and 539. | LEC | 5 | 5 |
| NURSING | 604 | LEAD COMP HLTH SYS | Addresses the major approaches in organization theory with application to clinical and academic environments. Focuses on organizational structure, resource dependence, strategy, symbols, institutional theory, organizational culture, socialization, leadership, and decision-making. 50 hours of applied practicum. Practicum hours require interaction with individuals in leadership positions in healthcare organizations. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| NURSING | 607 | PROG DEV EVAL | Emphasizes the analysis and evaluation of program outcomes within a variety of settings. Emphasis will be placed on the identification of appropriate evaluation instruments to the context of the organization. An overview of the process will include the use of models; selection of instruments; data collection procedures; cost effectiveness; and the means to interpret, report, and utilize findings. Application of results is stressed. May be offered in traditional and distance education formats. Prerequisites: None. | LEC | 3 | 3 |
| NURSING | 624 | SCI FOUN ANES NUR II | Provides a detailed study of the techniques and procedures utilized in caring for the trauma, obstetric, pediatric, or elderly patient. Students will be provided with leadership experiences on planning care and critical anesthesiology is also presented in this course. Prerequisites: NURSING 518 - Thr Fnd Anest Nur 1, NURSING 523 - Sci Fnd Anest Nur 1, NURSING 535 - Anes Nsg Prac Conf 1, NURSING 525 - Pharm Anest Nur Prac, NURSING 526 - Adv Phys Anest Nur 1, NURSING 536 - Anes Nsg Prac Conf II. | LEC | 3 | 3 |

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| NURSING | 626 | ADV PHYS ANES NUR 1 | Provides an in-depth study of the cell including its structure and function. Focus is then placed on the study of the anatomic structures and related physicochemical mechanisms governing respiratory and cardiovascular function for advanced nursing practice in anesthesia. Students will be provided with leadership experiences with emphasis on the development of a practitioner who can assume an independent role in providing anesthesia care. Prerequisites: NURSING 518 - Thr Fnd Anest Nur 1, NURSING 523 - Sci Fnd Anest Nur 1, and NURSING 535 - Anes Nsg Prac Conf 1. | LEC | 4 | 4 |
| NURSING | 637 | ANES NUR PRACT II | Continues with NURSING 535 and NURSING 536 with the addition of enriching leadership and innovative anesthesia experiences which broadens and improves the quality of the advanced nursing practice in anesthesia. Clinical case conferences will focus on case presentations, mortality and morbidity reviews and departmental in-presentations made by peers during clinical case conferences. Prerequisites: NURSING 518 - Thr Fnd Anest Nur 1, NURSING 523 - Sci Fnd Anest Nur 1, NURSING 525 - Pharm Anest Nur Prac, NURSING 526 - Adv Phys Anest Nur 1, NURSING 535 - Anes Nsg Prac Conf 1, NURSING 537 - Anes Nsg Prc Conf III. | LEC | 3 | 3 |
| PHIL | 110 | CRITICAL THINKING | Surveys several forms of argument, including inductive, deductive, analogical and legal reasoning, in order to teach students how to construct and evaluate arguments effectively. Designed for students who aim to improve critical thinking skills. This course fulfills requirements for the Philosophy major and minor. Three hours lecture per week. Open to all students. Prerequisites: None. This course earns three GEPs toward Goal 3 Quantitative Reasoning in general education. | LEC | 3 | 3 |
| PHIL | 111 | INTRO TO PHILOSOPHY | Presents reflective inquiry into selected problems of general philosophic interest. Considers the types of knowledge, Individual and social values, free will, the nature of the self, the nature of reality and the existence of God. This course earns three GEPs toward Goal 7 Arts and Humanities in general education, and fulfills requirements for the Philosophy major and minor. Three hours lecture per week. Open to all students, Prerequisites: None. | LEC | 3 | 3 |
| PHIL | 290 | MEDICAL ETHICS | Presents reflective inquiry into selected problems in medical ethics. Students consider the diversity of perspectives on ethical issues in the practice of medicine such as the physician-patient relationship, patient autonomy, informed consent, assisted suicide, justice in the distribution of health care, and the moral risks of genetic testing. This course applies to the Philosophy major and minor. Three hours lecture per week. Open to all students. May be offered in traditional and distance education formats. Prerequisites: None. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. | LEC | 3 | 3 |
| PHIL | 292 | CONT MORAL PROBLEMS | Presents reflective inquiry into selected problems in social ethics. Students consider ethical issues in contemporary society such as animal rights, world hunger, same-sex marriage, abortion, censorship, the legalization of drugs, and capital punishment. This course applies to the Philosophy major and minor. Three hours lecture per week. Open to all students. Prerequisites: None. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. | LEC | 3 | 3 |
| PHIL | 295 | BUSINESS ETHICS | Presents reflective inquiry into selected problems in business ethics. Students consider the diversity of perspectives on ethical issues in the practice of business such as corporate social responsibility, property rights and profit, job discrimination, sexual harassment, whistle blowing, and employee rights. This course applies for the Philosophy major and minor. Three hours lecture per week. Open to all students. Prerequisites: None. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. | LEC | 3 | 3 |

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| PHIL | 321 | PLATO & ARISTOTLE | Studies the origins of Western philosophy in ancient Greece. Examines Plato's philosophical writings in light of pre-Socratic speculation on one hand and in terms of Aristotle's criticisms and developments on the other. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. | LEC | 3 | 3 |
| PHIL | 419 | THEORY OF KNOWLEDGE | Inquires into the problem of knowledge, certainty and skepticism. Reviews theories of justification, induction, and intellectual duty. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisite: at least one philosophy course other than PHIL.110 or PHIL.270 is required. | LEC | 3 | 3 |
| PHYSICS | 103 | PRIN PHYS SCI 1 | Provides an introduction to the basic concepts of physical science by studying such topics as the structure and properties of matter, motion and forces, energy, light and sound, electricity and magnetism, and astronomy. It is designed for elementary education and special education majors. Four hours of integrated class/laboratory time per week. This course earns one GEP toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 5 Natural Sciences in general education. Prerequisite: None. | LEC | 3 | 3 |
| PHYSICS | 105 | ENERGY:SOURC ENV EFF | Explains energy in elementary scientific terms and examines present national and international energy situations in regard to sources, utilization and environmental effects. Surveys fossil fuels and nuclear, solar, geothermal and other energies with respect to availability and promise for the future. This course earns three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None. Three Hours lecture per week. | LEC | 3 | 3 |
| PHYSICS | 107 | APPL PHYSIC HEAL SCI | Studies selected principles of physics with applications to the processes and instrumentation of medical technology and imaging. Examines mechanics kinetic energy and heat, electricity and magnetism, electronics, atomic structure, radiation and medical imaging and reconstruction . Six hours per week: 3 hours lecture, 3 hours laboratory. This course earns one GEPs toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None. | LAB | 4 | 4 |
| PHYSICS | 107 | APPL PHYSIC HEAL SCI | Studies selected principles of physics with applications to the processes and instrumentation of medical technology and imaging. Examines mechanics kinetic energy and heat, electricity and magnetism, electronics, atomic structure, radiation and medical imaging and reconstruction . Six hours per week: 3 hours lecture, 3 hours laboratory. This course earns one GEPs toward Goal 3 Quantitative Reasoning and two GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: None. | LEC | 4 | 4 |
| PHYSICS | 202 | INTRO PHYSICS 2 | Studies electricity, magnetism, light, relativity, quantum and atomic theory, structure of matter, nuclear physics and particle physics. Continuation of PHYSICS.201. Although calculus is not used, familiarity with college-level algebra and basic trigonometry is assumed. Six hours per week: 3 hours lecture, 3 hours laboratory. Prerequisite: PHYSICS.201 or consent of instructor." | LAB | 4 | 4 |
| PHYSICS | 202 | INTRO PHYSICS 2 | Studies electricity, magnetism, light, relativity, quantum and atomic theory, structure of matter, nuclear physics and particle physics. Continuation of PHYSICS.201. Although calculus is not used, familiarity with college-level algebra and basic trigonometry is assumed. Six hours per week: 3 hours lecture, 3 hours laboratory. Prerequisite: PHYSICS.201 or consent of instructor." | LEC | 4 | 4 |

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| PHYSICS | 211 | GENERAL PHYSICS 1 | Provides an introduction to physics using Calculus. Studies mechanics, the physics of fluids, kinetic theory, oscillations, waves, heat and thermodynamics. Appropriate for physical science or mathematics majors. Six hours per week: 3 hours lecture, 3 hours laboratory. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: MATH.125 or concurrent. | LAB | 4 | 4 |
| PHYSICS | 211 | GENERAL PHYSICS 1 | Provides an introduction to physics using Calculus. Studies mechanics, the physics of fluids, kinetic theory, oscillations, waves, heat and thermodynamics. Appropriate for physical science or mathematics majors. Six hours per week: 3 hours lecture, 3 hours laboratory. This course earns one GEP toward Goal 3 Quantitative Reasoning and three GEPs toward Goal 5 Natural Sciences in general education. Prerequisites: MATH.125 or concurrent. | LEC | 4 | 4 |
| PHYSICS | 212 | GENERAL PHYSICS 2 | Studies wave motion, sound, geometrical and physical optics, electricity and magnetism. Continuation of PHYSICS.211. Six hours per week: 3 classes, 3 laboratories. Prerequisites: MATH.126 or concurrent registration; PHYSICS.211 or PHYSICS.111 with consent of instructor. | LAB | 4 | 4 |
| PHYSICS | 212 | GENERAL PHYSICS 2 | Studies wave motion, sound, geometrical and physical optics, electricity and magnetism. Continuation of PHYSICS.211. Six hours per week: 3 classes, 3 laboratories. Prerequisites: MATH.126 or concurrent registration; PHYSICS.211 or PHYSICS.111 with consent of instructor. | LEC | 4 | 4 |
| PHYSICS | 310 | MODERN ATOMIC PHYS | Presents some of the basic concepts and phenomena that constitute modern physics, including studies of the quantum nature of radiation, atomic structure and spectra, X-rays, relativity, wave-particle duality, the uncertainty principle and a brief introduction to nuclear physics and radioactivity. Three hours of lecture per week. Prerequisite: PHYSICS.212 or PHYSICS.112 with consent of instructor, MATH.126. | LEC | 3 | 3 |
| PHYSICS | 314 | ELECT & MAGNETISM | Studies electric and magnetic fields and potentials, electric and magnetic properties of matter, electrodynamics and electromagnetic waves. Three hours of lecture per week. Prerequisites: PHYSICS.212 or PHYSICS.112 with consent of instructor, MATH.225. | LEC | 3 | 3 |
| PHYSICS | 315 | ELECTRONICS | Presents the theory and application of semiconductors with special emphasis on circuitry. Studies basic electronic instrumentation as related to the gathering, processing and display of scientific data in any discipline. Six hours per week: 3 classes, 3 laboratories. Prerequisite: PHYSICS.112 or PHYSICS.212 or ENGTECH.141. | LAB | 4 | 4 |
| PHYSICS | 315 | ELECTRONICS | Presents the theory and application of semiconductors with special emphasis on circuitry. Studies basic electronic instrumentation as related to the gathering, processing and display of scientific data in any discipline. Six hours per week: 3 classes, 3 laboratories. Prerequisite: PHYSICS.112 or PHYSICS.212 or ENGTECH.141. | LEC | 4 | 4 |
| PHYSICS | 410 | RAD DETECTION LAB | Presents advanced techniques of nuclear radiation detection and measurements. Includes applications involving environmental monitoring, contamination surveys, and radiation protection and dosimetry. Appropriate for students majoring in Health Physics. Four hours of combined lecture/laboratory per week. Prerequisites: PHYSICS 360 or consent of instructor. | LEC | 3 | 3 |
| PHYSICS | 460 | APP HEALTH PHYSICS | Presents advanced topics involving health physics principles and radiation protection standards as applied to science, industry and medicine. Three hours of lecture per week. Prerequisite: PHYSICS.360. | LEC | 3 | 3 |

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| POLISCI | 101 | ELEMENTS OF POL SCI | Surveys basic concepts and theories related to the study of Political Science and applies this material to a diverse range of cultural and institutional settings. Students gain significant exposure to salient current events. This course is open to all students and serves as an elective for the minor in Political Science. This course earns one GEP toward Goal 1 Communication and two GEPs toward Goal 6 Social Sciences in general education. May be offered in traditional and distance education formats. Three hours lecture per week. This course does not count toward the political science major. Prerequisites: None. | LEC | 3 | 3 |
| POLISCI | 108 | CONT POL IDEOLOGIES | Investigates a broad range of political positions with regard to contemporary issues and examines various ideological perspectives from which citizens attempt to promote justice within the political system. The course fulfills requirements for the Political Science major and minor, and is open to all students. Course consists of three hours of lecture per week and is offered fall and spring semesters. This course earns two GEPs toward Goal 10 Citizenship in general education. Prerequisites: None. | LEC | 3 | 3 |
| POLISCI | 120 | U S GOVERNMENT | Introduces the formation of United States Government, the Constitutional basis of government, governmental structure, citizen input, law making and the development of public policy. The course provides students with the skills and knowledge to be responsible citizens. It is open to all students and is required of Political Science majors and minors. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| POLISCI | 181 | CONT ISSUE WORLD POL | Explores a broad range of global political, economic and social issues, focusing in particular on the content and controversies associated with each issue. The course uses the trends and processes of globalization to understand the global nature and interconnectedness of various issues, and how an issue may impact at the local, regional and global level. Students will examine global issues from multiple cultural and ethical viewpoints. This is an introductory course designed for all undergraduates from any major. This course earns one GEP toward Goal 1 Communication, one GEP toward Goal 2 Information Literacy and one GEP toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. There will be 3 hours of lecture/discussion per week. Prerequisites: None. | LEC | 3 | 3 |
| POLISCI | 260 | INTRO COMP POLITICS | Examines core theories, methods, and concepts in the field of comparative politics. To illustrate these topics, the course draws on a diverse range of country examples representing developed and less developed states, advanced democracies and autocratic regimes, and different cultural traditions. This is a required course for the major and minor. The method of delivery is either face to face or distance education. There are no prerequisites. This course provides 1 GEP in Goal 3 (Analytical and Quantitative Skills) and 2 GEP's in Goal 6 (Social Sciences) for General Education. | LEC | 3 | 3 |
| POLISCI | 280 | INTRO TO INT'L REL | Surveys the major theories and concepts used by international relations scholars; explores the relations among states and other political and economic actors in international relations; and analyzes major issues in contemporary international relations, focusing in particular on how to apply relevant theories to explaining those issues. Three hours of lecture per week. This course is open to all students and is required for Political Science majors. Prerequisites: None. May be offered in traditional and distance education formats. This course earns three GEPs toward Goal 6 Social Sciences in general education. | LEC | 3 | 3 |

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| POLISCI | 300 | POLISCI RESEARCH | Introduces students to the application of the scientific method in political science. Students learn the basics of research design, including formulating research questions, designing testable hypotheses, writing a formal literature review, and conducting basic empirical analysis using quantitative and/or qualitative methods. The method of delivery is face to face, and the course is usually offered every semester. Prerequisites: Complete university math course with MATH designation; complete POLISCI 120, POLISCI 260 and POLISCI 280 with grade of C or better; or complete POLISCI 300 concurrently with POLISCI 120, POLISCI 260 and POLISCI 280; or by permission of the chair. | LEC | 3 | 3 |
| POLISCI | 322 | POLITICAL VIOLENCE | Surveys individual, group and mass political violence, concentrating on causes and manifestations. Studies positive and negative effectiveness of political violence with the object of placing the phenomena in meaningful historical and contemporary contexts. The method of delivery is face to face, and the course is offered approximately every other semester. Prerequisites: 30 completed credits. | LEC | 3 | 3 |
| POLISCI | 371 | AFRICAN POLITICS | Examines problems of African countries: the struggle for independence; attempts to create national unity and political stability; economic and political development; the role of the military in politics; and politics in selected African countries. The method of delivery is face to face, and the course is offered approximately once every other year. Prerequisites: 30 completed credits. | LEC | 3 | 3 |
| POLISCI | 438 | PUBLIC PERS ADMIN | Introduces students to public service as a career, as well as public sector personnel and human resources management. Addresses personnel needs of the national, state, and local governments. Focuses on civil service law, labor relations, personnel systems, and current problems of personnel management in the public sector. This course counts toward the Public Administration Concentration. Prerequisites: 30 completed credits. | LEC | 3 | 3 |
| POLISCI | 452 | STATE & LOCAL GOVT | Explores in-depth the nature of state and local politics in the American political system. Within this context, students will explore how differences in institutional design and political culture affect aspects of political behavior as well as the design and implementation of various public policies. The method of delivery is face to face and the course is usually offered once per year. Prerequisites: 30 completed credits. | LEC | 3 | 3 |
| POLISCI | 487 | INTERNAT LAW & ORG | Examines global governance via international law and organizations; examines the history, administration, and politics of international organizations and the machinery of international law; analyzes the successes and failures of international law and organizations in some major issue areas of global governance such as human rights and humanitarian relief, the environment and sustainable human development, and international peace and security. The method of delivery is face to face and the course is usually offered once every two years. Prerequisites: 30 completed credits. | LEC | 3 | 3 |
| PROFSTUD | 301 | TEACH LEARN & ASSESS | A study of how teaching, learning and assessment are used collectively in kindergarten through twelfth grade classroom settings. The emphasis is on how teaching, learning and assessment are impacted by the Pennsylvania Academic Standards and effectively used by the teaching professional. Presents appropriate standards-based pedagogy, utilizing researched-based practices to train preservice teachers. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: 48 Credit hours. | LEC | 3 | 3 |
| PROFSTUD | 333 | CREATIVE PLAYWORK | Provides students with the skills and competencies necessary to develop a creative approach to their playwork practice, to consider the importance of creative play in fostering whole child development, and to develop and facilitate creative play spaces for children and youth. To complete fieldwork with children and youth, students must possess up-to-date, required clearances as per local and state regulations. | LEC | 3 | 3 |

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| PROFSTUD | 340 | CHILDREN & FAMILIES | Introduces students to the role of a child life specialist and a psychosocial care framework of children and families in medical settings. Through a review of historical and current influences in pediatric healthcare settings, basic child life theory and practice will be explored. To complete fieldwork with children and youth, students must possess up-to-date, required clearances as per local and state regulations. | LEC | 3 | 3 |
| PROFSTUD | 347 | ARTS/PLAY DEV CHILD | Familiarize students with current theories and pedagogical approaches for nurturing and promoting creative expression, including play, in young children, birth through grade four. Students will learn about the relationship between the arts and learning with particular emphasis on the visual and performing arts such as drawing, music, movement, and drama in the early childhood setting. Attention will be placed on the role of the early childhood educator in planning a creative learning environment that supports a developmentally appropriate and inclusive arts-based curriculum. This course may be offered distance education or in the traditional classroom setting. Three hours lecture per week. Prerequisites: 45 Semester hours. | LEC | 3 | 3 |
| PROFSTUD | 414 | CHILD, FAM & COMM ENG | Examines current trends and concerns that characterize the changing American family and draws implications for education. Students will examine family, community, and school structures, patterns, and relationships. They will explore a variety of theories, concepts, principles, and models utilized when implementing effective family, school, and community partnerships. Students will identify and discuss the uses and applications of community and school resources in supporting families and their children. They will learn and simulate techniques for interacting with parents and examine collaboration strategies for interdisciplinary team efforts. This course earns one GEP toward Goal 4 Cultures and Diversity, one GEP toward Goal 6 Social Sciences and one GEP toward Goal 10 Citizenship in general education. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisite: None. | LEC | 3 | 3 |
| PROFSTUD | 494 | ELL STRAT. & METHODS | This course is designed for pre-service and practicing professionals providing ELL instruction. Participants will be able to identify, design, and implement ELL program materials to facilitate English proficiency and academic standards. Instructional materials and strategies will be based on educational and language learning theory to develop appropriate methodology to use with children at diverse levels of English Proficiency. This course is designed to meet the ELL Program Specialist certification for instructional materials/development. This course satisfies 3 credits of the communication requirement for general education. Three hours lecture per week. | LEC | 3 | 3 |
| PROFSTUD | 498 | STUDENT TEACHING SEM | The student teaching seminar provides collegial and professional support to student teachers and assists them in becoming reflective life-long learners. The seminar is a required component of the professional semester and is taken concurrent with the student teaching experience. Further, the seminar provides an opportunity to synthesize the student teaching experience and to move the student teacher towards the world of teaching at a professional level. Through collaboration with university supervisors, cooperating teachers, parents, and other members of the larger school community, candidates will develop the skills, dispositions, and competencies needed to enter the teaching profession as reflective practitioners who value diversity, engage in professional development, and utilize appropriate practices. May be offered in traditional and distance education formats. Prerequisites: Student who have completed all requirements for student teaching as outlined by COE and PDE regulations are eligibility for enrollment in the student teaching seminar. | FLD | 3 | 3 |
| PROFSTUD | 501 | TEACH LEARN & ASSESS | A study of how teaching, learning and assessment are used collectively in kindergarten through twelfth grade classroom settings. The emphasis is on how teaching, learning and assessment are impacted by the Pennsylvania Academic Standards and effectively used by the teaching professional. Presents appropriate standards based pedagogy, utilizing researched-based practices to train preservice teachers. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |

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| PROFSTUD | 594 | ELL STRAT. & METHODS | This course is designed for pre-service and practicing professionals providing ESL instruction. Participants will be able to identify design, and implement ESP program materials to facilitate English proficiency and academic standards. Instructional materials and strategies will be based on educational and language learning theory to develop appropriate methodology to use with children at diverse levels of English Proficiency. This course is designed to meet the ESL Program Specialist certification for instructional materials/development. Three hours lecture per week. | LEC | 3 | 3 |
| PSYCH | 101 | INTRO PSYCHOLOGY | Studies psychology as a system of scientific inquiry into behavior, mental processes, and social relationships. Major concepts and principles of the discipline are presented. This foundational class has no prerequisites. This course may be taken to fulfill General Education (3 GEPs for Goal 6, Social Sciences), psychology major or psychology minor requirements. Three hours of lecture per week. | LEC | 3 | 3 |
| PSYCH | 131 | ADJUSTMENT & WB | Examines the personal and social meaning of psychological adjustment. Emphasizes growth and well-being, concepts of stress and coping, and psychosocial competence in adulthood. This course requires active participation in class discussion and willingness to challenge one's preconceptions and consider alternative psychological points of view. It concerns the application of psychological concepts and research to stress and coping in everyday adult life, emphasizing coping skills and techniques. This course is an elective and offers 2 GEPs for Goal 10 - Citizenship. Prerequisites: None. | LEC | 3 | 3 |
| PSYCH | 160 | APP STAT FOR BEH SCI | Introduces and applies fundamental statistical concepts, principles, and procedures to the analysis of data related to the behavioral sciences. Students learn computation, interpretation, and application of commonly used descriptive, correlational, and inferential statistical procedures as they relate to behavioral science research. It is required for students majoring or minoring in Psychology, and is offered every semester. This course earns two GEPs toward Goal 3 Analytical and Quantitative Skills in general education. Prerequisite: None. Three hours lecture per week. | LEC | 3 | 3 |
| PSYCH | 210 | LIFE SPAN PSYCHOLOGY | Examines concepts and issues related to human development from conception to death. Summarizes major developmental milestones in physical, cognitive, and social-emotional development. Discusses major theories and perspectives on human development. This course counts toward a psychology minor and is an elective for psychology majors. Prerequisite: PSYCH.101. | LEC | 3 | 3 |
| PSYCH | 211 | EARLY CHILD DEV | Examines concepts and issues related to child development from the prenatal period through middle childhood. Summarizes major concepts, theories, research, and best practices in physical, cognitive, social, and emotional development. Multiple sections of PSYCH 211 are typically offered every semester. Prerequisites: PSYCH 101 - Intro to Psychology. | LEC | 3 | 3 |
| PSYCH | 212 | ADOLESCENT DEV | Studies cognitive, social, emotional and biological development during the transition from childhood to adulthood (roughly the second decade of life) and personal and social issues affecting adolescents. This course will especially benefit students who desire to improve understanding of their own development and/or who work with or plan to work with adolescents providing, e.g., instruction, parenting, health or psychological care, or supervision. Fulfills requirements for psychology major. Three hours lecture per week. Prerequisite: PSYCH.101. | LEC | 3 | 3 |

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| PSYCH | 218 | PRIN OF GERONTOLOGY | Examines areas of growth and decline in the lives of adults in their sixties and older. The themes of successful aging and positive psychology are emphasized, along with cultural, lifestyle, gender-based and individual differences. The course explores the areas of family and intimate relationships, employment, retirement, civic engagement, and life-long learning, cognitive and intellectual functioning, and changes in personality and self-concept. The areas of coping, assistive technologies, financial assistance, housing assistance, involvement with a caregiver, and end-of-life decisions are also explored. This course is offered in spring semesters. Three hours lecture per week. Prerequisites: PSYCH.101. | LEC | 3 | 3 |
| PSYCH | 235 | INTR ABNORMAL PSYCH | Introduces the nature, diagnosis, etiology, epidemiology, prevention and treatment of cognitive, affective, behavioral and personality disorders. Also covers relevant theoretical perspectives and research findings. This course counts toward the psychology minor and is an elective for psychology majors. Prerequisites: PSYCH 101 - Introduction to Psychology. | LEC | 3 | 3 |
| PSYCH | 253 | SOCIAL PSYCHOLOGY | Introduces the scientific study of how people's thoughts, feelings, and behaviors are affected by the actual, imagined, or implied presence of others. Topics include social perception and cognition, aggression, conformity, helping behavior, relationships, group processes. Course is intended for psychology majors and minors. Three hours lecture per week. Prerequisite: PSYCH.101. | LEC | 3 | 3 |
| PSYCH | 281 | RESEARCH METHODS | Builds on students' background in Applied Statistics (PSYCH 160) and affords opportunities for students to interpret and design basic psychological research, improve their information literacy, and apply APA ethical standards. Topics covered include the scientific method, research approaches and designs, and ethical issues in psychological research. The course counts towards the Psychology major and minor. Prerequisites: PSYCH 101 and PSYCH 160 (with a minimum grade of C in each). The course may only be repeated once. | LEC | 3 | 3 |
| PSYCH | 282 | RESEARCH APPLICATIONS | Allows students to use their background in applied statistics (PSYCH 160) and research methodology (PSYCH 281) to design and/or conduct studies with human participants and non-human animal subjects. This course affords opportunities for students to improve their information literacy, apply APA ethical standards, and learn to write effectively in psychology. The course counts towards the psychology major. Prerequisites: PSYCH 101, PSYCH 160 and PSYCH 281 (with a minimum grade of C in each). | LEC | 3 | 3 |
| PSYCH | 309 | COG DEV | Studies cognitive development in humans. Focus is on theories of cognitive development and research on the development of memory, problem solving, language and literacy, intelligence, neurological correlates of cognition, as well as social cognition. Factors affecting motivation, achievement, and self-control may also be considered. Additional emphasis placed on instructional implications of theories and research. Counts for the Psychology minor. This course is an elective for Psychology majors. Prerequisites: PSYCH 101, PSYCH 211 or PSYCH 212 and 60 credits earned. | LEC | 3 | 3 |
| PSYCH | 327 | POSITIVE PSYCH | Examines theories, research, and best practices related to positive experiences, positive traits, and enabling institutions. Drawing on students' background in experimental psychology (PSYCH 101, PSYCH 160, and PSYCH 281), this course debunks common misconceptions and refutes the "bad science" that pervades the self-help movement and compromises the discipline's credibility. This course also affords psychology majors and minors opportunities to apply positive psychology concepts through experimental activities, self-reflective exercises, and case studies. Positive Psychology is typically offered at least once per academic year. | LEC | 3 | 3 |

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| PSYCH | 335 | PSYCHOL DISORDERS | Surveys the description, causation, prevention and treatment of maladaptive behavior and psychological disorders. Considers biological, psychological and social factors. Also covers relevant theoretical perspectives and research findings. This course counts for the psychology major. Prerequisites: PSYCH.101, PSYCH.160, PSYCH.281, all with minimum grade of C, and PSYCH.282. | LEC | 3 | 3 |
| PSYCH | 336 | THEORIES PERSONALITY | Conveys to students a basic understanding of personality theory as a scientifically defensible model of human functioning as well as a philosophical statement regarding human nature. It will engage students in a critical study of holistic theories of personality, including psychodynamic, trait, biological, cognitive, humanistic, existential/phenomenological, and cross-cultural perspectives. There will be an emphasis placed on the healthy, adaptive personality. This course is designed for psychology majors. Prerequisites: PSYCH 101, PSYCH 160, PSYCH 281 (with a minimum of C in each), and PSYCH 282. | LEC | 3 | 3 |
| PSYCH | 360 | COGNITIVE PSYCHOLOGY | Studies cognition in humans. Research and theory related to human use of attention, perception, memory, language and problem solving are central topics of study. Other topics may include creativity, reasoning, and decision-making. Traditional research approaches to understanding human thinking, as well as neuroscientific approaches, are presented. Counts toward the Psychology major. Prerequisites: PSYCH.101, PSYCH.160, PSYCH.281, all with minimum grade of C, PSYCH.282. | LEC | 3 | 3 |
| PSYCH | 375 | PSYCHOLOGY OF LEARNING | Examines the theoretical and experimental bases of learning in animal and human behavior. The course focuses on basic principles of classical conditioning and operant conditioning. Psychology of Learning is offered for major. Prerequisites: PSYCH 101, PSYCH 160, PSYCH 281 (minimum of C in each) and PSYCH 282. | LEC | 3 | 3 |
| PSYCH | 376 | BEH MODIFICATION | Examines the basic methods of behavior modification as they are used in individual therapy as well as in institutionalized settings. The course connects behavior modification techniques to the theoretical concepts that they are based on, especially: operant conditioning, respondent conditioning, observational learning, and cognitive models. Behavior Modification is a lecture-based course designed for psychology majors. Prerequisites: PSYCH.101, PSYCH.160, PSYCH.281 (minimum grade of C in each). | LEC | 3 | 3 |
| PSYCH | 380 | BEHAVIORAL NEUROSCI | Examines the cellular bases of behavior, emphasizing contemporary views of and approaches to the study of the nervous system. Neural structure, function, and organization are considered in relation to sensory and motor function, learning and memory, and other basic behaviors. An overview of brain function will be presented, drawing on basic concepts in the biological, physical, and behavioral sciences. This course counts for the psychology major. Prerequisites: PSYCH.101, PSYCH.160, PSYCH.281 (minimum grade of C in each), PSYCH.282. | LEC | 3 | 3 |
| PSYCH | 390 | SPECIAL TOPICS PSYCH | Examines theories, research, and best practices related to various topics in applied psychology. Drawing on students' background in experimental psychology (PSYCH 101, PSYCH 160 and PSYCH 281), this course affords undergraduates the opportunity to explore the synergy between the basic and applied psychological sciences through traditional classroom-based or distance education lectures, discussions, experiential activities, and multimedia presentations. Depending on the topic, the course also may include community-based activities. Special Topics in Applied Psychology is typically offered at least once per academic year. This course may be repeated as an elective with different topics. Prerequisites: PSYCH 101, PSYCH 160 and PSYCH 281 | LEC | 3 | 3 |

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| PSYCH | 406 | PSYCHOLOGY SEMINAR | Provides for an advanced consideration of significant topics in psychology. Requires in-depth analysis and discussions of current research. This course may be taken once to fulfill a requirement for the psychology major, and may be taken again with a different topic as an elective. Prerequisites: PSYCH 101, PSYCH 160, PSYCH 281 (all with a minimum grade of C), PSYCH 282; each specific seminar may have additional prerequisites depending on the topic. | SEM | 3 | 3 |
| PSYCH | 441 | THEORY PRAC ACAD PSY | Utilizes a seminar format classroom experience along with opportunities to work with students in PSYCH 101 through discussions, presentations, reviews, and tutoring. Using PSYCH 101 content, students will explore pedagogical techniques and assessment methods. There is a strong emphasis on ethical and professional behaviors in all interactions, including those with PSYCH 101 students and other teaching assistants. As part of this capstone experience designed for psychology majors, students will develop items as part of a professional portfolio as preparation for employment or graduate work. This course counts toward a psychology major. Prerequisites: PSYCH 101, PSYCH 160, PSYCH 281 (minimum of C in each), and PSYCH 282, 60 earned credit hours, and permission of the instructor. | LEC | 3 | 3 |
| PSYCH | 442 | THEORY PRAC ACAD 2 | Provides students who have completed PSYCH 441 - Theories and Practice of Academic Psychology an opportunity to continue to develop their academic and professional skills and engage in leadership activities. This course is an elective and is offered when there is student interest and available positions. Prerequisites: PSYCH 101, PSYCH 160, PSYCH 281 (minimum of C in each), and PSYCH 282, PSYCH 441, 60 earned credit hours, and permission of the instructor. | LEC | 3 | 3 |
| READING | 541 | RDG ASSMT & INTERVEN | Focuses on informal and formal assessment techniques with an emphasis on using assessment to design appropriate intervention programs and techniques; topics include miscue analysis, informal reading inventories, and standardized testing. Three hours lecture per week. This course satisfied PDE guidelines for Inclusive Classrooms/SAS. May be offered in traditional and distance education formats. | LEC | 3 | 3 |
| READING | 551 | EARLY LANG LEARNING | This course provides an in-depth examination of reading and writing development from birth to early literacy learning. This course is based on the combination of the scientifically-based reading research approach to literacy instruction as well as the emergent literacy perspective, which creates a blended, balanced approach to language and literacy teaching and learning. Research literature will be reviewed as it pertains to children's literacy development and best practice balanced literacy instruction. Candidates will develop instruction based on the foundation of reading, which includes oral language, phonemic and phonological awareness, as well as alphabet knowledge and phonics, vocabulary, and comprehension. In addition, students will learn and plan for guided reading and writing. This course may be offered via distance education or in the traditional classroom setting. Prerequisite: Graduate Standing. | LEC | 3 | 3 |
| RUSSIAN | 101 | RUSSIAN 1 | | LEC | 3 | 3 |
| RUSSIAN | 102 | RUSSIAN 2 | Develops further the four language skills: speaking, listening, reading, and writing to a proficiency level regarded as basic communication in Russian. RUSSIAN.102 is for students who wish to continue studying Russian at the second level. Russian language study is taught in its cultural context, including history, culture, diversity, and comparison with students' native culture. Practice in language laboratory and/or use of electronic language-learning media is required. RUSSIAN.102 is offered every semester. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 8 Second Language in general education. Three hours lecture per week. Prerequisite: RUSSIAN.101 or equivalent proficiency level. This course is generally appropriate for students with one or two years of high-school Russian. | LEC | 3 | 3 |

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| RUSSIAN | 204 | INTERM RUSSIAN II | Reinforces and expand the material covered in Russian 203 (Intermediate Russian I) by utilizing a multi-skill approach: listening, speaking, reading, and writing. A key objective in this course is to encourage students to speak as much Russian in the classroom as possible. Russian language is taught in its cultural contexts, including history, diversity, literature, visual arts and comparison with students' native communication strategies and literary and artistic traditions. The course is designed for students seeking General Education Points in Cultures and Diversity, Communication, and Arts and Humanities, and is conducted in combination of lecture and discussion, and formal and informal oral and written assignments. Applicable toward a minor or a major in Languages and Cultures: Russian and East European Studies Track. Prerequisites: RUSSIAN.102 or equivalent (e.g. Placement Test) or permission of the Department. Normally offered once a year. This course earns one GEP toward Goal 1 Communication and one GEP toward Goal 4 Cultures and Diversity and one GEP toward Goal 7 Arts and Humanities in general education. | LEC | 3 | 3 |
| SCM | 376 | SC CASH FLOW PROFIT | Introduces the fundamental financial, managerial and cost accounting concepts applicable to Supply Chain Management. The use of cost accounting is an integral part of decision making in all types of business operations. A firm understanding of cost accounting concepts will be attained through the use of spreadsheets and enterprise technology. This course is a required course in the Supply Chain Management Degree Program and is designed for those students who wish to enhance their understanding of management decision making by performing detailed technical analyses using the Microsoft Office Suite, enterprise technology, and other tools. Prerequisites: ACCT 220, ACCT 223. | LEC | 3 | 3 |
| SECED | 452 | TEACH MATH SEC SCH | Theory, research, trends, issues and techniques in the teaching of mathematics at the middle and high school levels. This course focuses on the teaching and preparing a mathematics curriculum for individuals to be certificated in middle school and high school mathematics. Prerequisite: Approved as BSED Major. | LEC | 3 | 3 |
| SECED | 530 | FOUND TCHG | Introduces students to the teaching process. Diverse instructional strategies and techniques, methodologies, and approaches are explored. Topics include: (1) the manner in which personal characteristics, experience and preparation, context in teaching, the changes in society, and student diversity influence how we teach, (2) developing instructional objectives, sequencing learning activities, and applying various taxonomies while conducting microteaching lessons, and (3) discipline strategies, questioning techniques, differentiated learning activities, and mastery teaching. Class term project includes a research paper on alternate teaching methods, a unit plan, and evaluative instruments. Three hours lecture per week. | LEC | 3 | 3 |
| SECED | 552 | TEACH MATH SEC SCH | Theory, research, trends, issues and techniques in the teaching of mathematics at the middle and high school levels. This course focuses on the teaching and preparing a mathematics curriculum for individuals to be certificated in middle school and high school mathematics. Three hours lecture per week. | LEC | 3 | 3 |
| SECED | 597 | GRADUATE PRACTICUM | This is a six-credit, 16 week student teaching experience that is part of the secondary certification track of the curriculum and instruction master's program. It includes all of the required INTASC standards and the framework for teaching and learning now required by both the National Council of Accreditation of Teacher and the Pennsylvania Department of Education. Required for teacher certification. | FLD | 6 | 6 |
| SOC | 211 | PRIN SOCIOLOGY | Introduces the basic concepts, perspectives, theories, and methods in sociology. Required of all sociology majors and minors. Multiple sections offered every fall and spring semester. This course earns three GEPs toward Goal 6 Social Sciences in general education. Three hours of lecture per week. Open to all students. Prerequisites: None. | LEC | 3 | 3 |

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| SOC | 213 | CONT SOCIAL PROBS | Defines what constitutes a social problem and examines the negative impacts of racism, poverty, sexism, crime and other social problems in contemporary American society. This class will be offered at least one time per year. This course earns three GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None. Three hours lecture per week. | LEC | 3 | 3 |
| SOC | 215 | RACE AND ETHNICITY | Provides an introduction to the sociological study of racial and ethnic minority groups and inter-group relations, particularly between minority and dominant groups. Covers concepts, theories and evidence for understanding the experiences of racial and ethnic minority groups and covers the history and current status of selected minority groups in the United States. Serves as a "Specialized Course" counting toward the major in Sociology, and counts toward the Sociology minor. Offered every fall and spring semester. Open to all students meeting the prerequisite. This course earns three GEPs toward Goal 4 Cultures and Diversity in general education. Prerequisite: SOC.211. Three hours lecture per week. | LEC | 3 | 3 |
| SOC | 217 | SOC OF SPORTS | Examines and critically assesses the role of sports in American Society from a sociological standpoint. Specific attention is paid to the influences of race, class and gender upon sports. The violent, commercialized, corrupt and deviant dimensions of sports are also explored. This class is geared towards anyone with an interest in learning more about sports and human behavior. This class counts for three General Education Points in Goal 6 - Social Sciences. Prerequisites: None. | LEC | 3 | 3 |
| SOC | 231 | MARRIAGE & FAMILY | Introduces marriage and family as a social institution and how other social institutions and social structure affect marriage and family. This course also introduces how marriage and family affect other social institutions. This course covers diverse processes that form a family and diverse types of family and relating issues across different time periods and regions in the world. This course counts as a lower level elective in the sociology major and is an elective course for the Gerontology minor and Gender Studies minor. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None. | LEC | 3 | 3 |
| SOC | 255 | RES METHODS SOC INQ | Introduces students to social science research methods common in sociology and criminal justice. Finding, reviewing and critically evaluating research literature and exploring essential components in the design of ethical research projects are central. Quantitative techniques are emphasized but attention is given to other approaches as well (e.g., qualitative and evaluation research). Class time typically includes a mix of lecture, discussion, and/or in-class exercises. The course is required for sociology and criminal justice majors but is open to all students who have taken SOC 211 or CRIMJUST 101 and have an interest in social science research. Offered every fall and spring semester. This course earns one GEPs toward Goal 1 Communication and two GEPs toward Goal 2 Information Literacy in general education. | LEC | 3 | 3 |
| SOC | 260 | BASIC SOC STATISTICS | Introduces students to the logic of statistical inquiry in social science research. Students learn basic statistical concepts and techniques necessary to conduct quantitative research. The course is taught with lecture and in-class computation and involves learning to use statistical software. The course is required for sociology and criminal justice majors but is open to others that have taken SOC.255 or CRIMJUST.255 and have an interest in social science research. Offered every fall and spring semester. This course earns two GEPs toward Goal 3 Quantitative Reasoning in general education. | LEC | 3 | 3 |

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| SOC | 275 | CLASSICAL SOC THEORY | Examines classical social theory that significantly impacted the development of sociology as an academic discipline. Key figures like Emile Durkheim, Karl Marx, and Max Weber are studied closely, but others may receive attention as well. Explores the value of classical theories for illuminating aspects of modernization and contemporary social life. Shows the influence of classical theories on contemporary perspectives prominent in sociology. Typically taught with a mixture of lecture and discussion of primary source readings. Required for sociology majors but open to others interested in sociology that have taken SOC.211. Offered every fall and spring semester. Three hours lecture per week. | LEC | 3 | 3 |
| SOC | 320 | SOCIOLOGY OF GENDER | Introduces students to sociological theory and research surrounding gender. The course specifically addresses the development of gender identity, the ways in which gender influences social interaction, and the role of gender in social stratification. Class time typically includes a mix of lecture, discussion, and/or in-class exercises. The course is an elective for sociology majors and gender studies minors and is appropriate for students from a range of disciplines. Offered approximately once every 3 semesters. Prerequisites: SOC.211 and SOC.275 or consent of instructor. | LEC | 3 | 3 |
| SOC | 470 | SEMINAR IN SOCIOLOGY | Provides students with the opportunity to participate in a seminar class that relates to an area of specialization that is not covered in other classes. Examples include the Sociology of Law, Music, Aging, Sports and Health Care. Primarily for sociology majors, but interested students meeting the pre-requisites may enroll. Taught as a seminar, i.e., a mixture of lecture, discussion and individualized instruction and consultation. Offered on an as needed basis. Pre-requisites include SOC.255, SOC.260 and SOC.275 and 60 credits or consent of instructor. | LEC | 3 | 3 |
| SOCWORK | 133 | INTRO SOC WORK & WEL | Provides students with an overview of the principles and concepts of the social welfare system in the United States as well as a survey of the social work profession. This foundational class has no prerequisites. It is required for students majoring in Social Work and is available to all students. Three hours of lecture per week. Offered each fall and spring semester. This course earns three GEPs toward Goal 6 Social Sciences in general education. Prerequisites: None. | LEC | 3 | 3 |
| SOCWORK | 221 | HUM BEHAV IN SOC EVR | Provides an understanding of how economic, environmental, and social forces interface with biological, cultural, psychological, and social characteristics of human beings alone and in families, groups, communities, and organizations. Explores the cultures, historical experience, and demographics of various oppressed groups in the United States over the life span. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: SOCWORK.133 (or permission of instructor). | LEC | 3 | 3 |
| SOCWORK | 240 | SOCIAL WORK STATS | Introduces students to a range of statistical procedures in social work research. Students will create and manage data sets, learn how to use statistical software, and interpret statistical information in social work journals. The course is required for social work majors but is open to others who have an interest in social work research and evaluation. This class will typically be taught every semester. This course earns two GEPs toward Goal 3 Quantitative Reasoning in general education. Three hours lecture per week. Prerequisites: SOCWORK.133 or permission of the instructor. | LEC | 3 | 3 |

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| SOCWORK | 250 | RESEARCH SOC WORK | Prepares the BSW practitioner to understand the research process and to critique research. The student will be exposed to a variety of social research processes and methods, including single subject research, qualitative and quantitative methodologies, and program evaluation. Emphasis on understanding and applying social work values to research, on methods for evaluation of one's own practice, and the interface of research with successful social work practice. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: SOCWORK.133 - Intro to Social Work. | LEC | 3 | 3 |
| SOCWORK | 297 | INTRO PRACT EXP SWK | The primary goal of this course is to initiate the preparation of the baccalaureate generalist social worker with a foundation of social work knowledge, values, ethics and skills. The beginning integration of ecological systems theory into generalist social work practice occurs in this course. This course counts as a Group B, Social & Behavioral Sciences General Education Requirements. Three hours lecture per week. Prerequisite: SOCWORK.133 (with grade of C or above). Grade of C or above required to apply to the Social Work major. | LEC | 3 | 3 |
| SOCWORK | 334 | IND/FAM | Examines the knowledge, values, ethics and skills that comprise the core of professional generalist social work practice with client systems of various sizes. The focus includes the philosophical foundation of social work, self-awareness, values and ethics of the helping person, and the nature of professional relationship/client-worker partnership in the context of practice and human diverse populations. The complexity of social work practice from a systems/ecological perspective that is strengths based is presented. Students also acquire knowledge about the stages, activities and skills of problem solving practice, engagement, assessment, intervention, evaluation, and termination. Content on human behavior social environment, policy, and research is integrated in the course. This class will be taught every semester. Prerequisites: SOCWORK 297. | LEC | 3 | 3 |
| SOCWORK | 450 | SOC WORK PRAC:SM GRP | Focuses on developing group facilitators who possess an understanding of group theory and group dynamics as well as effective leadership skills. The content encompasses both task and treatment groups utilizing strengths based framework. Social work group facilitation is taught utilizing empirically-based theories and interventions, teaching students to engage, assess, intervene, and evaluate with small groups. Opportunities to apply social work knowledge, values, ethics, and skills to practice settings and situations with small groups will be provided. Students learn how to use research evidence to inform their practice and evaluate the effectiveness of group interventions. An emphasis is placed on understanding, affirming, respecting, and working with groups with diverse backgrounds. This class is typically taught twice a year. | LEC | 3 | 3 |
| SOCWORK | 452 | SOC WRK PRAC:ORG/COM | Examines the knowledge, values, ethics, and skills that comprise the core of professional generalist social work practice with the organizations and communities. The focus includes the philosophical foundation of social work, self awareness, values and ethics of the helping person, and the nature of professional relationship/client-worker partnership. The complexity of social work practice from a systems/ecological perspective that is strengths based is presented. Students also acquire knowledge about the stages, activities and skills of problem solving practice, engagement, assessment, intervention, evaluation, and termination. This class will be taught every semester. Prerequisites: SOCWORK 334 - Individuals and Families, SOCWORK 240 - Statistics for Social Work, SOCWORK 250 - Research Methods for Generalist Social Work Practice. | LEC | 3 | 3 |

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| SOCWORK | 453 | SOC WEL POL & SERV | Examines various aspects of social welfare policy and services. The focus of this course includes the history, politics, economics, culture, and ethics of social policy as it relates to the social work profession and the social service delivery system. Utilizing critical thinking skills, students will engage in policy analysis to explore the reciprocal interconnectedness of policy, the social service delivery system and social work practice. Based on the information obtained through the exploration of a social issue, concern, policy or need, students will formulate a policy proposal and develop a method by which to advocate for the social well-being of others through their policy creation. Additionally, students will be asked to consider how to evaluate the implementation and outcome of their proposed policy. This class will typically be taught every semester. Prerequisites: SOCWORK 334 - Individuals and Families and POLISCI 120 - United States Government. | LEC | 3 | 3 |
| SOCWORK | 456 | SOCIAL WORK AGING | Introduces biological, social, and psychological aspects of aging as they pertain to generalist social work practice will be addressed. Major topics include successful aging, health, economic status, social participation, and social services. This course will prepare social workers to access knowledge for contemporary practice, define social work practice in aging, develop a competency-based approach to learning and identify evidence of the efficacy of social work in the aging field. This elective class may be taught every year. Prerequisites: SOCWORK 133 - Introduction to Social Work and Social Welfare. | LEC | 3 | 3 |
| SOCWORK | 498 | INT SENIOR SEM | Integrates information from the overall social work curriculum in preparation for future work. This course processes and integrates theory and practice within the field education experience and incorporates practice-relevant research and assessment of student's own practice and interventions. The course will serve as additional support for students who may experience difficulty in field and who require additional supervision to comply with CSWE accreditation requirements. The course provides opportunities for students to develop and strengthen professional skills of collaboration, consultation, and problem solving. Workshops will be used to clarify expectations in the field and will provide a forum for student discussion and the reception of feedback from peers and faculty members. This class will be taught every semester and is taken concurrently with SOCWORK 497, Field Education. Prerequisites: SOCWORK 240, SOCWORK 250, SOCWORK 334, SOCWORK 450, SOCWORK 452 and SOCWORK 453 | SEM | 3 | 3 |
| SOCWORK | 512 | HBSE II | Provides systems theory and the ecological model with transcultural perspectives from infancy to the end of the adult life cycle. Emphasizes behavior in groups, communities and organizations with a focus on Latino/as, African-Americans, Asian-Americans and other diverse and oppressed populations. The course is designed for graduate level social work students. Instructional methods may include but are not limited to lectures, readings, papers, reflections, and role plays. Prerequisites: SOCWORK 511 - Human Behavior in the Social Environment I. | LEC | 3 | 3 |
| SOCWORK | 516 | SOC WELFARE POLICY I | Examines various aspects of social welfare policy and services. The focus of this course includes the history, politics, economics, culture, and ethics of social policy as it relates to the social work profession and the social service delivery system. This graduate level course will review current patterns and contextual factors that facilitate and inhibit changes in social policies. Students will study the role of social work as it relates to the analysis of social welfare policies and will begin to make connections with policy practice concepts in the field setting. Instructional methods may include but are not limited to presentations, experiential learning activities and discussion boards, online activities, synchronous and asynchronous lectures. Prerequisites: SOCWORK 502 - Foundations of Social Work and SOCWORK 511 - Human Behavior and the Social Environment I. | LEC | 3 | 3 |

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| SOCWORK | 518 | SOCIAL WORK AGING | Introduces biological, social, and psychological aspects of aging as they pertain to generalist social work practice will be addressed. Major topics include successful aging, health, economic status, social participation, and social services. This course will prepare social workers to access knowledge for contemporary practice, define social work practice in aging, develop a competency-based approach to learning and identify evidence of the efficacy of social work in the aging field. This elective class may be taught every year. Prerequisites: SOCWORK 500 - Social Work Capstone or SOCWORK 502 - Foundations of Social Work. | LEC | 3 | 3 |
| SOCWORK | 522 | GEN PRAC ORG & COM | Examines the knowledge, values, ethics, and skills that comprise the core of professional generalist social work practice and organizations and communities. The focus includes the philosophical foundation of social work, self-awareness, values and ethics of the helping person, and the nature of professional relationships and client-worker partnerships. The complexiy of social work practice from a systems/ecological perspective that is strength-based is presented. Students also acquire knowledge about the stages, activities, and skills of problem-solving practice, engagement, assessment, intervention, evaluation, and termination. Application of these objectives will be made in field education, which will happen concurrently with this course. The course is designed for graduate-level social work students. Instructional methods may include, but are not limited to, lectures, readings, papers, reflections, and role plays. This course may be offered in a distance education format. Prerequisites: SOCWORK 502-Foundations of Social Work | LEC | 3 | 3 |
| SOCWORK | 532 | INTEGRATED FIELD II | Provides an educationally directed field experience and is a continuation of the Field Education I experience. Advances application and problem-solving skills initiated in Integrated Field Experience I (SOCWORK 531) and prepares students to enter the Integrated Field Experience III. Students complete tasks and assignments that reflect a higher level of synthesis of knowledge and increased independence in functioning in typically the agency where students completed SOCWORK 531. The course is designed for graduate level social work students and involves a monthly seminar experience in conjunction with the agency work. Instructional methods may include but are not limited to presentations, experiential learning activities, discussion boards, online activities, seminar workshops, synchronous and asynchronous lectures. Prerequisites: SOCWORK 531 - Integrated Field Experience I. | LEC | 3 | 3 |
| SOCWORK | 534 | INTEGRATED FIELD IV | Provides educationally directed opportunities to demonstrate advanced mastery of social work competencies and application of knowledge and social work ethics and values in specialized settings. This final field experience is a compilation of knowledge, skills, and values developed from previous field experiences in the program and emphasizes advanced cognitive/affective dimensions of learning. The focus of this course is to provide opportunities for students to operationalize advanced year social work skills in the agency setting to ensure competency upon graduation. The course is designed for graduate level social work students and involves a monthly seminar experience in conjunction with the agency work. Instructional methods may include but are not limited to presentations, experiential learning activities, discussion boards, online activities, seminar workshops, synchronous and asynchronous lectures. Prerequisites: SOCWORK 533 - Integrated Field Experience III. | LEC | 3 | 3 |

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| SOCWORK | 556 | SOC WELFARE POLICY II | Examines models of policy analysis and application of models to social welfare issues and problems. This graduate level course emphasizes the contextual factors contributing to social issues, service delivery, and resource allocation. Examines the various social, economic, and political forces that influence policy development, policy implementation, and program delivery. Opportunities for integrating knowledge in the field education setting are stressed with a primary focus on recognizing social problems, populations at risk, and the ways that legislative and political processes shape policy issues. Instructional methods may include but are not limited to presentations, experiential learning activities and discussion boards, online activities, synchronous and asynchronous lectures. Prerequisites: SOCWORK 551 - Advanced Practice with Individuals, Couples, and Families. | LEC | 3 | 3 |
| SOCWORK | 560 | ADVANCED PRACTICE ORG | Builds on the foundation of knowledge, values, and skills addressed in Generalist Macro Social Work practice. This course explores multiple approaches social workers use to influence organizations and other large systems. Concepts, theories and models of macro level practice and advance practice skills for addressing complex practice and organizational situations are examined. Application of course content will be facilitated by a practicum experience in a practice agency where concepts and skills from this course can be applied. The course is designed for graduate level social work students. Instructional methods may include by are not limited to lectures, readings, papers, reflections, and role plays. The course may be offered in a distance education format. Prerequisites for the course are SOCWORK 500 - Social Work Capstone or SOCWORK 522 - Generalist Practice with Organizations. | LEC | 3 | 3 |
| SPANISH | 101 | SPANISH 1 | Initiates students' development of the four language skills (speaking, listening, reading, writing) required to use the Spanish language in a communicative context. Anticipated proficiency upon successful completion of the course is the Novice-Mid sub-level (based upon the American Council on the Teaching of Foreign Languages). Introduces students to features of Hispanic culture that are associated with the targeted communicative activities. Open to all students. Offered at least one time per year. May be offered in traditional and distance education formats. Three hours lecture per week. | LEC | 3 | 3 |
| SPANISH | 102 | SPANISH 2 | Develops further the four principle language skills (speaking, listening, reading, and writing) to the level of basic second-language proficiency (the Novice-High proficiency level according to the guidelines of the American Council for the Teaching of Foreign Languages) and enhances students' knowledge of the cultures of the Spanish-speaking world. All course content is presented in communicative, culturally contextualized activities. Appropriate for students with one or two years of high school Spanish. Offered every semester. Counts toward the Spanish Minor. Offered as both traditional and distance education. Prerequisite: SPANISH.101 or equivalent proficiency level. Three hours lecture per week. This course earns one GEP toward Goal 4 Cultures and Diversity and two GEPs toward Goal 8 Second Language in general education. | LEC | 3 | 3 |
| SPANISH | 204 | SPANISH 4 | Continues the development of the four principal second language proficiencies (speaking, listening, writing, reading) at the Intermediate level of proficiency according to the guidelines of the American Council on the Teaching of Foreign Languages. Also focuses on the development of an appreciation of noteworthy literary and artistic works of Spain. Appropriate for all students who have satisfied the indicated prerequisites - completion of Spanish 3 or placement via the Spanish Language Placement Test. Offered each semester. | LEC | 3 | 3 |
| SPANISH | 206 | STRUCT SPAN LANG | Study of Spanish grammar and syntax through applied exercises and introduction to Spanish morphology. This course counts as a Group A, Humanities and The Arts General Education Requirements. Not offered every semester. Three hours lecture per week. Prerequisite: SPANISH.204 or equivalent. | LEC | 3 | 3 |

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| SPANISH | 305 | SPAN APP PHONE PRON | Develops ability to communicate effectively in spoken Spanish. Provides a detailed study of Spanish sound and intonation patterns through group and individual practice. Attends to individual pronunciation problems. This course counts as a Group A, Humanities and The Arts General Education Requirements. Not offered every semester. Prerequisite: SPANISH.206 or equivalent. | LEC | 3 | 3 |
| SPANISH | 420 | HISPANIC LIT | Instructs students with regard to the reading of selected works of literature from Spain and Spanish America, the authors of those works, the literary genres and literary movements to which they pertain, and the socio-cultural milieu in which they were composed. This course is approved as a Diversity General Education Course. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. Prerequisites: SPANISH.306 and SPANISH.350. | LEC | 3 | 3 |
| SPECED | 100 | ORIENTATION SPEC ED | Introduces freshman and transfer students to the Special Education (PK-8)/Early Childhood Education (PK-4) Dual Certification Program (PTE status). The content focuses on all requirements associated with the scope and sequence for successful program matriculation. The purpose of the course is to facilitate successful transition of students into this course of study within teacher education (special education) as well as provide an orientation to professional expectations associated with course work leading to a degree in the field. Classes are held weekly for the entire semester. Prerequisites: Admission in the Special Education Program (PTE status). | LEC | 1 | 1 |
| SPECED | 101 | INTRO INDIV W/EXCEPT | Reviews all major areas of exceptionality (visually impairments, intellectual disability, hearing impairments, communication disorders, behavior disorders, learning disabilities, etc.) and acquaints the student with social, sociological, psychological, medical, historical, legal, economic and professional aspects of these conditions. Reviews current research and the latest techniques for facilitating meaningful interactions with individuals with disabilities. This course earns two GEPs towards Goal 4 Cultures and Diversity and one GEP towards Goal 10 Responsible Citizenship in general education. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| SPECED | 202 | TECH INDIV W/DISAB | Introduces students to assistive technology and the existing and emerging technologies that are being used by various professionals working with individuals that have disabilities. The focus of this course is to prepare students for pk-12 Special Education Teacher Certification. Students use computers, assistive devices, educational software and other technologies utilized as instructional tools, administrative tools, and environmental interfaces. This course earns one GEP towards Goal 2 Information Literacy and one GEP towards Goal 4 Cultures and Diversity in general education. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| SPECED | 206 | INTRO EARLY INTERVEN | An overview of the field of early intervention (EI), including historical perspectives, philosophies of EI, influences of disabilities on the development of young children, early intervention models and intervention strategies. Three hours lecture per week. | LEC | 3 | 3 |
| SPECED | 275 | LINKING ASSESS/INSTR | Provides teacher candidates with a comprehensive overview of the skills, processes, and research-based interventions for linking assessment and instruction in inclusive settings for students with disabilities. The academic core areas to be addressed in this course will include literacy, math, and writing in P-12 setting. This course earns one GEP toward Goal 2 Information Literacy, one GEP toward Goal 3 Quantitative Reasoning and one GEP toward Goal 6 Social Sciences in general education. May be offered in traditional and distance education formats. Three hours lecture per week. Prerequisite: SPECED.101. | LEC | 3 | 3 |

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| SPECED | 358 | METH INSTR INDIV DIS | This course deals with the development of evidenced based skills in effective instructional strategies for students with exceptionalities, creating positive classroom learning environments, and teacher-candidate development of effective collaboration and communication skills. Three hours lecture per week. Prerequisite: SPECED.101. | LEC | 3 | 3 |
| SPECED | 410 | ASD WORKSHOP | Presents an overview of characteristics and interventions relevant to educating individuals with Autism Spectrum Disorders (ASD). Key aspects of background, personal and educational characteristics of individuals with ASD, personal parent perspectives, assessment practices and comparison of research and non-researched based interventions will be highlighted. Three hours lecture per week. | LEC | 3 | 3 |
| SPECED | 417 | BEHAVIOR INT/SUP | Develops skills and competencies in applying the principles of human behavior, group management procedures, and design/implementation of person (student) centered behavior support plans as delineated under the Individuals with Disabilities Act (IDEA) and the Americans with Disabilities Act (ADA). This course examines the relationship among research, policy and practice as it pertains to prevention and early intervention with group and individual problems at school and community levels. Three hours lecture per week. Prerequisites: SPECED.358; Admission to Teacher Education. | LEC | 3 | 3 |
| SPECED | 430 | INSTR PRAC MOD/SEV | This course presents an overview of the nature and needs of educating individuals with moderate and severe disabilities. Models, theories, and effective strategies for individual assessment and planning, cognitive, functional and social development in a standard aligned system, and research-based instructional methods are provided. The content focuses on the dynamics of including diverse learners in the home, school, general education classroom and community. This course provides students with an opportunity to apply knowledge through a field-based experience. Three hours lecture per week. Prerequisites: SPECED.358. | LEC | 3 | 3 |
| SPECED | 433 | LIT INSTR ST W/DIS | Provides preservice teachers with a comprehensive overview of skills, assessment and strategies for teaching listening, speaking, reading and written expression. Students will prepare a portfolio of resources and best practices for teaching language arts to students with special needs. Three credits completed in general reading instruction; Admission to Teacher Education. Three hours lecture per week. | LEC | 3 | 3 |
| SPECED | 446 | ASSESSMENT PRACTICUM | Provides application of theories in learning, assessment, classroom management, and teaching strategies to school settings. Topics include data-driven instruction, analysis of data from multiple sources, and the implementation of various assessment practices. Additional topics include professionalism, collaboration with other professionals and parents, and classroom management. This practicum is repeatable in different settings. Prerequisites: SPECED 358, admission to Teacher Education or Graduate Program, and permission from the practicum instructor. | CLN | 3 | 6 |
| SPECED | 449 | ACAD ASSESS INSTR | Develops skills and competencies in using formal and informal assessment tools and procedures that are in compliance with professional standards of ethical practice. Covers strategies and methods for gathering information about the learner prior to, during, and after instruction to maximize instructional effectiveness. Presents strategies and formats for synthesizing assessment results and developing evaluation reports and IEP goals. Three hours lecture per week. Prerequisites: SPECED.275 and Admission to Teacher Education. | LEC | 3 | 3 |
| SPECED | 450 | INSTR PRAC MILD PK-8 | This course focuses on the recognition and acquisition of learning characteristics and theory, effective teaching and classroom management strategies, as well as the understanding of collaborative roles and responsibilities of professionals in identifying, assessing and providing services to meet the instructional needs of students with disabilities. Three hours lecture per week. Prerequisites: SPECED.358 and Admission to Teacher Education. | LEC | 3 | 3 |

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| SPECED | 453 | INST ST DIS (7-12) | Prepares future educators to meet the diverse needs of students in secondary instructional settings. Management strategies, current theories of best practice, a variety of research-based methods of instruction, interventions, and service structures that facilitate the successful transition from school to adult living for individuals with disabilities are presented and explored. Inclusionary issues, such as, collaborative roles of educational professionals, paraprofessional management, and administrative concerns within secondary educational settings are addressed. Individual vocational assessment, development of functional vocational curriculum, vocational competencies, and strategies for differentiating instruction to meet the needs of adolescents with disabilities are analyzed for application. Prerequisites: SPECED 358 for Special Education minors and Admission to Teacher Education (for undergraduate majors) | LEC | 3 | 3 |
| SPECED | 461 | ST SEMINAR | Presents instruction in the development of effective teaching individuals with exceptionalities. Focuses on problems in the education of this population. Discusses its relationship to teaching as each problem is defined. Helps the future teacher meet practical problems in guiding the individual with exceptionalities in learning experiences at school. Three hours lecture per week. Prerequisite: Concurrent with SPECED.488/499. | SEM | 3 | 3 |
| SPECED | 480 | TRAUMA INFORM PRACT | Provides the opportunity to extend prerequisite knowledge and skills concerning adverse childhood experiences (ACEs), trauma, and associated programs and practices including Positive Behavior Support, Multi-tiered Systems of Support (MTSS) and the Positive Behavior Intervention and Support (PBIS) framework. This course can be taken as part of the sequence of courses that lead to the Endorsement in Social, Emotional, and Behavioral Wellness of Students PK-offered through the Pennsylvania Department of Education or as an elective. Prerequisites: SPECED 358 - Meth Instr Indiv Dis | LEC | 3 | 3 |
| SPECED | 488 | STUDENT TEACHING I | The student teaching semester requires two placements of eight to nine weeks in duration. One placement will be in a full-time, part-time or inclusionary setting with students with exceptionalities (PK-8). The other placement will be in a regular education class (K-6). Student teachers are responsible for demonstrating competence in the following areas: planning and preparation, classroom environment, instructional delivery, professionalism, and clerical task completion. The student teachers will systematically assume the role of each cooperating teacher. Prerequisites: Concurrent with SPECED.461; student teaching seminar. | FLD | 6 | 6 |
| SPECED | 489 | STUDENT TEACHING II | The student teaching semester requires two placements of eight to nine weeks in duration. One placement will be in a full-time, part-time or inclusionary setting with students with exceptionalities (PK-8). The other placement will be in a regular education class (K-6). Student teachers are responsible for demonstrating competence in the following areas: planning and preparation, classroom environment, instructional delivery, professionalism, and clerical task completion. The student teachers will systematically assume the role of each cooperating teacher. Prerequisites: Concurrent with SPECED.461; student teaching seminar. | FLD | 6 | 6 |
| SPECED | 501 | ADM & SUP SPEC EDUC | Examine the functions and responsibilities of the Administrator of Special Education. This includes functions in the areas of leadership, guidance, control, direction and management of special education programs and services within educational organizations. Understanding administrative theory and its application to current issues within the domain of special education will provide a framework for this course. Key programming areas of curricular content knowledge, collaboration, research and inquiry, professional and ethical practice, and leadership and policy will be addressed. Prerequisites: Admission to Graduate Program. | LEC | 3 | 3 |
| SPECED | 506 | INTRO EARLY INTERVEN | Presents an overview of the field of early intervention, including historical perspectives, philosophies of early intervention, influences of disabilities on the development of young children and early intervention models. Three hours lecture per week. | LEC | 3 | 3 |

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| SPECED | 517 | BEHAVIOR INT/SUP | Develops skills and competencies in applying the principles of human behavior, group management procedures, and design/implementation of person (student)centered behavior support plans as delineated under the Individuals with Disabilities Act (IDEA) and the Americans with Disabilities Act (ADA). This course examines the relationship among research, policy and practice as it pertains to prevention and early intervention with group and individual problems at school and community levels. Prerequisites: SPECED.558; Admission to Graduate Program. Three hours lecture per week. | LEC | 3 | 3 |
| SPECED | 530 | INSTR PRAC MOD/SEV | Presents an overview of the nature and needs of educating individuals with moderate and severe disabilities. Models, theories, and effective strategies for individual assessment and planning, cognitive, functional and social development in a standard aligned system, and research-based instructional methods are provided. The content focuses on the dynamics of including diverse learners in the home, school, general education classroom and community. This course provides students with an opportunity to apply knowledge through a field-based experience. Three hours lecture per week. Prerequisites: SPECED.358. This course satisfied PDE guidelines for Inclusive Classrooms/SAS. | LEC | 3 | 3 |
| SPECED | 533 | LIT INSTR ST W/DIS | Literacy Instruction for Students with Disabilities will provide teacher candidates with comprehensive, evidence-based literacy strategies and methodologies in alignment with Pennsylvania Standards-Based Instructional System. Emphasis will be on teaching reading, writing, listening and speaking. Students will examine and utilize systematic approaches for teaching literacy to students with disabilities. Students will prepare a portfolio of resources and evidence-based practices. Admission to Teacher Education. Three hours lecture per week. This course satisfied PDE guidelines for Inclusive Classrooms/SAS. | LEC | 3 | 3 |
| SPECED | 544 | ACAD ASSESS INSTR | Develops skills and competencies in using formal and informal assessment tools and procedures that are in compliance with professional standards of ethical practice. Covers strategies and methods for gathering information about the learner prior to, during, and after instruction to maximize instructional effectiveness. Presents strategies and formats for synthesizing assessment results and developing evaluation reports and IEPs. Three hours lecture per week. Prerequisites: SPECED.557 and Admission to Graduate Program. | LEC | 3 | 3 |
| SPECED | 547 | TECH INDIV W/DISAB | Introduces students to assistive technology and the existing and emerging technologies that are being used by various professionals working with individuals that have disabilities. The focus of this course is to prepare students for pk-12 Special Education Teacher Certification. Students use computers, assistive devices, educational software and other technologies utilized as instructional tools, administrative tools, and environmental interfaces. Three hours lecture per week. Prerequisites: None. | LEC | 3 | 3 |
| SPECED | 550 | INSTR PRAC MILD PK-8 | This course focuses on the recognition and acquisition of learning characteristics and theory, effective teaching and classroom management strategies, as well as the understanding of collaborative roles and responsibilities of professionals in identifying, assessing and providing services to meet the instructional needs of students with disabilities. Prerequisites: Admission to Teacher Education. Three hours lecture per week. This course satisfied PDE guidelines for Inclusive Classrooms/SAS. | LEC | 3 | 3 |

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| SPECED | 553 | INST ST DIS (7-12) | Prepares future educators to meet the diverse needs of students in secondary instructional settings. Management strategies, current theories of best practice, a variety of research-based methods of instruction, interventions, and service structures that facilitate the successful transition from school to adult living for individuals with disabilities are presented and explored. Inclusionary issues, such as, collaborative roles of educational professionals, paraprofessional management, and administrative concerns within secondary educational settings are addressed. Individual vocational assessment, development of functional vocational curriculum, vocational competencies, and strategies for differentiating instruction to meet the needs of adolescents with disabilities are analyzed for application. Prerequisites: SPECED 558 and Admission to Graduate Programs. | LEC | 3 | 3 |
| SPECED | 561 | ST SEMINAR | Presents instruction in the development of effective teaching individuals with exceptionalities. Focuses on problems in the education of this population. Discusses its relationship to teaching as each problem is defined. Helps the future teacher meet practical problems in guiding the individual with exceptionalities in learning experiences at school. Three hours lecture per week. Prerequisite: Concurrent with SPECED.509. | SEM | 3 | 3 |
| SPECED | 565 | SPEC ED RESEARCH I | Prepares students to read, understand, and evaluate statistical and behavioral research in the field of special education. The course includes the study of statistical terms, an introduction to the type of research questions that can be answered by various statistical procedures, a knowledge of the basic steps of hypothesis testing, analysis and comparison of research designs, and the analysis of the utility of research. This course supports graduate students in the investigation of a topic that informs the practice of special educators. Prerequisites: Admission to Graduate Program. | LEC | 3 | 3 |
| SPECED | 580 | TRAUMA INFORM PRACT | Provides the opportunity to extend prerequisite knowledge and skills concerning adverse childhood experiences (ACEs), trauma, and associated programs and practices including Positive Behavior Support, Multi-tiered Systems of Support (MTSS) and the Positive Behavior Intervention and Support (PBIS) framework. This course can be taken as part of the sequence of courses that lead to the Endorsement in Social, Emotional, and Behavioral Wellness of Students PK-offered through the Pennsylvania Department of Education or as an elective. Prerequisites: SPECED 558 - Methods of Instruction for Inclusive Classrooms | LEC | 3 | 3 |
| SPECED | 588 | STUDENT TEACHING I | The student teaching semester requires two placements of eight to nine weeks in duration. One placement will be in a full-time, part-time or inclusionary setting with students with exceptionalities (PK-8). The other placement will be in a regular education class (K-6). Student teachers are responsible for demonstrating competence in the following areas: planning and preparation, classroom environment, instructional delivery, professionalism, and clerical task completion. The student teachers will systematically assume the role of each cooperating teacher. Prerequisites: Concurrent with SPECED.561; Student Teaching Seminar.. | FLD | 5 | 5 |
| SPECED | 589 | STUDENT TEACHING II | The student teaching semester requires two placements of eight to nine weeks in duration. One placement will be in a full-time, part-time or inclusionary setting with students with exceptionalities (PK-8). The other placement will be in a regular education class (K-6). Student teachers are responsible for demonstrating competence in the following areas: planning and preparation, classroom environment, instructional delivery, professionalism, and clerical task completion. The student teachers will systematically assume the role of each cooperating teacher. Prerequisites: Concurrent with SPECED.561; Student Teaching Seminar. | FLD | 5 | 5 |

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| SPECED | 99 | CO-CURRICULAR | Student CEC, Best Buddies and Trinity Learning Community - Provides an opportunity for students to partially fulfill program service requirements, become immersed in direct service experiences with individuals with disabilities and to further skills in citizenship. Offered during the fall and spring semesters during the academic year. This course earns one GEP toward Goal 10 Citizenship in general education for student engagement in either Student CEC, Trinity Learning Community or Best Buddies. Prerequisites: Open only to Special Education (PK-8)/Early Childhood (PK-4) Dual Teacher Certification Majors. | ACT | 0 | 0 |
| THEATRE | 100 | THEATRE FORUM | Requires all tracks of the Bachelor of Arts in Theatre to attend weekly performance labs, including specialized workshops, lectures, readings, and performances. May be repeated each semester. | LAB | 0 | 0 |
| THEATRE | 102 | INTRO TO THEATRE | Students explore various aspects of the theatrical process and learn tools for evaluating theatrical productions in a hands-on class. Both group and individual projects are used to introduce and deepen understanding of several theatrical disciplines (playwriting, directing, performance, design) and varied genres and styles of theatre. Students also see and critique performances on and off campus. Open to all students; required for all Theatre majors. This course earns three GEPs toward Goal 7 - Arts and Humanities in general education. Prerequisites: None. | LEC | 3 | 3 |
| THEATRE | 103 | THEATRE APPRECIATION | Students will explore the fundamental relationship between theatre and empathy; examining how theatre invites audiences to learn about other people's perspectives and actions. The course introduces the terminology, process, genres, and basic techniques of theatrical production; students will learn about a variety of theatre artists and companies. This course uses a flipped class model: in-person class meetings focus on demonstration and discussion; homework topics are explored through recorded lectures, recorded theatrical productions, readings, and videos about theatre. Attendance at live theatrical events is required. Open to students in all majors. This course earns three GEPs towards Goal 7 - Arts & Humanities in general education. Prerequisites: None. | LEC | 3 | 3 |
| THEATRE | 108 | THEATRE PRACTICUM | Involves participation in plays: Acting or technical Work. Grade awarded each semester. May be repeated. Prerequisites: None. | ACT | 0 | 1 |
| THEATRE | 112 | FUND OF ACTING | Student actors explore the terms and techniques of acting in an active, hands-on learning environment. Students perform improvised and scripted scenes and monologues, as well as other individual, paired and group acting exercises. Students see and critique acting in performances on and off-campus. Open to all students; required for all Theatre majors. This course earns three GEPs toward Goal 7 - Arts and Humanities in general education. Prerequisites: None. | LEC | 3 | 3 |
| THEATRE | 215 | HISTORY OF THEATRE 1 | Surveys structures, production practices, plays and the theater's function in societies from ritual beginnings through the 19th century. This course counts as a Group A, Humanities and The Arts General Education Requirements. Three hours lecture per week. | LEC | 3 | 3 |
| THEATRE | 312 | INTERMEDIATE ACTING | Explores the relationship between the personalized actor, his/her ensemble of fellow artists and the script. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: THEATRE.112. Three hours lecture per week. | SEM | 3 | 3 |
| THEATRE | 490 | SP SEMINAR THEATRE | Provides for a concentrated study of an individual artist, a period or a movement in theater. Offered on demand. This course counts as a Group A, Humanities and The Arts General Education Requirements. Prerequisite: 9 semester hours in theater or consent of the instructor. Three hours lecture per week. | SEM | 3 | 3 |

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| THEATRE | 491 | SEM IN TECH & DESIGN | Provides opportunities for advanced studies and application of special topics as in theatrical design and technical theatre. Examples might include advanced studies in Lighting, Costume or Scene Design or Technical Theater Management. With division approval, this course may substitute for one-semester enrollment in Theatre 108, Theatre Practicum. This course counts as a Group A, Humanities and The Arts General Education Requirements. May be repeated for credit without limit. Concurrent registration in multiple sections within a semester permitted. Prerequisites: THEATRE.270 and one other design or technical course and permission of the instructor. Three hours lecture per week. | SEM | 3 | 3 |
| THEATRE | 492 | SEM IN PERFORMANCE | Provides opportunities for advance studies and application of special topics as selected by the instructor. Examples might include advanced studies in audition techniques, acting styles or performance theory. This course counts as a Group A, Humanities and The Arts General Education Requirements. May be repeated for credit without limit. Concurrent registration in multiple sections within a semester permitted. Prerequisites: THEATRE.112 and THEATRE.312 and permission of the instructor. Three hours lecture per week. | SEM | 3 | 3 |