



Course Listing

Course	Credits	Title
ACC 200	1 TO 3	Special Topics in Accounting
Description:	Current topics dealing with ongoing facets of accounting.	
ACC 201	3	Accounting & Budgeting
Description:	An introduction to accounting information and the basic accounting cycle. Techniques of accounting for business transactions, preparation and interpretation of financial statements for internal control and external reporting and for use in making sound business decisions, forecasting and budgeting methods. May not be substituted for ACC 203 or 204.	
ACC 203	3	Accounting Principles I
Description:	Develops an understanding of basic principles and procedures of accounting including account definition, classification, worksheet preparation, and generation of financial statements.	
ACC 204	3	Accounting Principles II
Description:	Develops an understanding of basic principles and procedures of accounting including account definition, classification, worksheet preparation, and generation of financial statements. This is a continuation of ACC 203. (Prerequisite: ACC 203)	
ACC 205	3	Financial Accounting
Description:	Focus on the financial aspects of accounting, financial statements, and applications. Emphasis is placed on three forms of business organization	
ACC 206	3	Managerial Accounting
Description:	Introduces concepts in analyzing and interpreting accounting information in product and service costing and the application of this information and statements in management planning, control, and decision-making	
ACC 303	3	Intermediate Accounting I
Description:	Comprehensive review of accounting principles with detailed study of balance sheets; accounting statements analysis. (Prerequisite: ACC 204)	
ACC 304	3	Intermediate Accounting II
Description:	Comprehensive review of accounting principles with detailed study of balance sheets; accounting statements analysis. This is a continuation of ACC 303. (Prerequisite: ACC 303)	
ACC 305	3	Intermediate Accounting III
Description:	Includes in-depth coverage of selected accounting topics, including, but not limited to, deferred income taxes, accounting for pension costs, cash flow statements, capitalized leases, and financial statements analysis. (Prerequisite: ACC 304)	
ACC 313	3	Income Tax Planning Ind & Bus
Description:	This course reviews federal tax law and explains income tax fundamentals for individuals, businesses, and trusts and estates. Topics include income tax fundamentals, AMT, tax reduction techniques, property transactions and passive activity, and charitable contributions and deductions. Prerequisite:	

Course	Credits	Title
		ACC 204
ACC 314	3	Advanced Taxes
Description:		Tax problems of partnerships, corporations, estates, trusts, deferred payments, gifts, with particular emphasis on tax planning and the role of the accountant. (Prerequisite: ACC 313)
ACC 317	3	Cost Accounting I
Description:		Basic cost accounting principles applied to job order, process, and standard cost systems. (Prerequisite: ACC 204)
ACC 318	3	Advanced Cost Accounting
Description:		Advanced cost techniques and theories, financial planning and control; profit planning with direct costing; flexible budgets, break-even and profit-volume relationships. (Prerequisite: ACC 317)
ACC 321	3	Internal Auditing
Description:		An introduction to internal auditing, its rapid growth and important role in the modern corporation. Topics include internal auditing standards, scope, responsibilities, ethics, the impact of the Sarbanes-Oxley Act of 2002, internal controls, techniques, and reporting practices. There will be some consideration given to the material included in the Certified Internal Auditor examination. Various techniques will be used to study internal auditing theory and practice which may include the use of problem sets and case studies. (Prerequisites: ACC 201 and 204, or ACC 206)
ACC 326	3	Proc Design & Internal Audit
Description:		The course covers the design of business processes and the implementation of key control concepts. The course utilizes a case study approach that will address tactical, strategic, systems, and operational areas. A study of the control aspects of accounting systems. Topics include: setting standards; defining and imposing administrative, operational, and security controls; and judging cost-effectiveness of systems. This is the first course leading to endorsed internal audit certificate and will prepare students planning on sitting for the Certified Internal Auditor Exam. (Prerequisite: ACC 201 or 203-204, ACC 321)
ACC 334	3	Forensic Accounting
Description:		This course will include a study of techniques used in solving financial crimes including: interviewing techniques, rules of evidence, and sources of information, forensic accounting procedures and current issues in financial investigations. The course will include the criminal statutes related to financial crimes. Case studies will be used to discuss interviewing techniques and other indirect methods of proof in resolving financial crimes. Various financial documents and instruments will be discussed and reviewed as part of the documentary evidence to support financial investigations. (Prerequisite: ACC 201 or 204)
ACC 398	3	Accounting Practicum
Description:		This culminating course prepares students for the real challenges of working in the field of accounting. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. (Instructor permission required)
ACC 399	3	Accounting Practicum
Description:		This culminating course prepares students for the real challenges of working in the field of accounting. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. (Instructor permission required)

Course	Credits	Title
ACC 401	1 TO 6	Independent Study & Research
Description:	Provides an opportunity for a junior or senior to engage in independent study and research in a specific phase of the major field.	
ACC 421	3	Advanced Accounting I
Description:	Covers theory and practice relating to business combinations, equity and cost methods of accounting, consolidated accounting issues, accounting for intercompany indebtedness, inventory transactions and related topics. (Prerequisite: ACC 304)	
ACC 422	3	Advanced Accounting II
Description:	Covers specialized areas of accounting including partnership accounting, foreign currency transactions, segment reporting, interim reporting, governmental accounting, accounting for non-profit organizations and International Financial Reporting Standards. (Prerequisite: ACC304) (Fee applies)	
ACC 425	3	Auditing
Description:	Generally accepted auditing standards employed in the verification of financial statements, evaluation of internal controls, statistical sampling, procedural testing, and moral and legal responsibilities of the auditor. (Prerequisite: ACC 303)	
AHS 100	1	Allied Health Seminar I
Description:	The first in the series of major courses/seminars for Allied Health majors. Students are oriented to the curriculum and to the allied health disciplines, including the collaboration with partner institutions. Students are coached on professional preparation in anticipation of applying for their clinical assignments. Guest speakers present other topics and students attend selected University and outside events. Special topics are covered each time the course is offered.	
AHS 200	1	Allied Health Seminar II
Description:	This course is the second in the series of major courses/seminars for Allied Health majors. Students in this course are required to explore selection of their specialization in anticipation of the collaboration with partner institutions. Students will be coached on professional preparation in anticipation of applying for their clinical assignments. As part of the course, students will be required to complete volunteer work in the health care field. Special topics will be covered each time the course is offered. (Prerequisite: AHS 100).	
AHS 300	1	Allied Health Seminar III
Description:	The third in the series of major courses/seminars for Allied Health majors. Students will deepen their investigation of their chosen specialization and prepare their application/placement for clinical training with partner institutions. Students are coached on professional preparation in anticipation of their clinical assignments. Guest speakers present other topics and students attend selected University and outside events, especially in conjunction with their chosen specialization. (Prerequisite: AHS 200)	
AHS 404	3	Capstone Professional Hlth Sci
Description:	In this course, students will examine their experience in professional health care settings, integrating the liberal arts core, to deepen their investigation into their career paths. Students are coached on professional preparation and will complete papers and presentations. (Prerequisite: with instructor approval)	
ARA 101	3	Elementary Arabic I
Description:	Fundamentals of spoken and written modern standard Arabic (Fusha) including proficiency development in basic skills of listening, speaking, reading, and writing. This form of Arabic is universally understood throughout the Arabic-speaking world and used in Islamic practice.	

Course	Credits	Title
ARA 102	3	Elementary Arabic II
Description:	Continuation of the fundamentals of spoken and written modern standard Arabic (Fusha) including proficiency development in basic skills of listening, speaking, reading, and writing. (Prerequisite: ARA 101 or instructor's approval)	
ARA 201	3	Adv Intermediate Arabic I
Description:	Contemporary overview of Arabic language, syntax, and grammar with materials selected for exploring cultures of the Arabic-speaking world. Emphasis on development of student autonomy in Arabic, especially in speaking and writing. Laboratory work required. (Prerequisite: ARA 102 or instructor's approval)	
ARA 202	3	Adv Intermediate Arabic II
Description:	Continuation of the study of Arabic language, syntax, and grammar with materials selected for exploring cultures of the Arabic-speaking world. Emphasis on development of student autonomy in Arabic, especially in speaking and writing. Laboratory work required. (Prerequisite: ARA 201 or instructor's approval)	
ART 102	3	Basic Drawing
Description:	A basic studio course designed to explore the elements of drawing. Students experience exercises in observation and memory drawing using various media: pencil, ink, charcoal, and pastel. (Fee applies)	
ART 105	3	Intro to Creating Computer Art
Description:	This course teaches students to create art and original graphics using computer software and technological equipment. Time spent in this course will be divided among learning Adobe Illustrator, Adobe Photoshop, and concepts of fine art and digital photography. Projects will be designed to integrate the use of scanners, digital drawing tablets, cameras and iPads while learning the elements and principles of design. Prior drawing experience is helpful but not necessary. Students will also be challenged to integrate these skills with traditional art media such as drawing and collage. Students from all disciplines will develop skills to apply in making flyers, posters, logos, and design. (Lab work required) (Fee applies)	
ART 200	1 TO 3	Special Topics
Description:	Several on-site guided museum tours and hands-on workshops in the visual arts will be offered on various themes.	
ART 201	3	Foundatns Visual Art & Design
Description:	This course will provide students with a foundation in the visual arts and design. This course enables students to develop and understand visual literacy by learning to apply the elements and principles of art and design through hands-on experiences using a variety of media and subject matter. Students will develop design thinking skills to create 2- and 3-D works of art. This is the foundation course for students to pursue fields within the Visual Arts in the disciplines of Fine Arts, Graphic Design or Art History. (Fee applies)	
ART 202	3	Anatomy Drawing:Figure it Out!
Description:	Go beyond theoretical learning to rely on your own observations. What constitutes the human body? How do these parts work together to make us "us"? This course allows you to observe, understand, and relate to the human body. It will center on anatomical drawings, which will be helpful for students in biology, nursing, exercise science, physical therapy, and allied health.	
ART 204	3	Typography
Description:	An introduction to the use of type-face as one of the primary elements of visual communication. In addition to an introduction to the history, terminology and technical issues related to typography, students will focus on the expressive characteristics of letterforms, fundamental typographic theories and rules of spatial organization. Lab work required. (Fee applies)	

Course	Credits	Title
ART 205	3	Drawing II
Description:	Introduces and defines drawing as an important form of visual expression and communication. The course encourages the application of fundamental drawing skills toward more personally expressive goals. (Prerequisite: ART 102) (Fee applies)	
ART 208	3	Art History I
Description:	A survey of visual arts from the Paleolithic to the Gothic period, exploring major monuments and masterpieces of sculpture, ceramics, architecture and painting as each form relates to the achievements of humankind. A broad range of cultures will be explored to provide an understanding of different perspectives on how people have communicated visually through art forms. This course introduces art fundamentals and helps to foster an appreciation for the visual arts.	
ART 209	3	Fundamentals of Ceramics
Description:	This is a fundamental ceramic course that develops pottery-making skills. Students learn the fundamentals of constructing clay objects using air drying clay and employ basic ceramic tools. Each week the instructor will provide a video of how to do the weekly technique and talk about the topic and include examples as well as other virtual references. Students can produce all the works right in their home. Students will explore cultural and historical developments in ceramics. Students explore ceramic work from Ancient Greece, Native American Pueblo's and Japan. Each week a new technique in hand building is introduced along with examples from a variety of ceramic artist throughout the world. The course will explore pinch, coil, and slab building ceramic techniques. This course helps foster creative development and an exploration of how to create a three - dimensional form. Students will keep a sketchbook with notes and reflection of the process of creating their ceramic work and include	
ART 210	3	Sculptural Ceramics
Description:	This studio course will investigate the use of water-based clay in creating sculptural forms. Students will employ fundamental hand building and wheel throwing techniques and explore the use of form, space and mass as they construct 3-dimensional forms. (Fee applies)	
ART 211	3	WI: Art History II
Description:	An inclusive survey of the history of arts from Fourteenth Century Art in Europe to Post Modernism, exploring major monuments and masterpieces of sculpture, ceramics, architecture and painting as each form relates to the achievements of humankind. A broad range of cultures will be examined to provide an understanding of different perspectives on how people have communicated visually through art forms.	
ART 212	1	Draw/Watercolor:Longwood Grdns
Description:	This course teaches basic painting techniques using Longwood gardens as inspiration.	
ART 213	1	Mutter Museum: Draw & Ceramics
Description:	Using the Mutter Museum as inspiration, students learn basic ceramic and drawing techniques.	
ART 214	1	Landscape Painting at IU
Description:	This course explores basic painting techniques using the Immaculata University campus as inspiration.	
ART 215	3	Art Appreciation
Description:	An introduction to the fundamentals of art through the analysis of the visual elements and principles of design that underlie all works of art. Students will discern an art work's subject matter and content through hands-on projects, lecture, writing assignments and class discussions. Students will explore themes, purposes, vocabulary and different media to expand their understanding and provide a deeper appreciation for the arts and the creative process involved.	

Course	Credits	Title
ART 216	3	Art Abroad
Description:	Discover the arts on a semester break to Europe. The tour will consist of guided visits to art museums, historical sites, lectures, discussions and a taste of the culture to enhance your appreciation of the arts. An additional cost will be added to the course fee that covers air, hotels, food, tours, transfer and a full time tour director.	
ART 217	3	Women Artists
Description:	This course will provide a survey of women artists from the Renaissance to the twenty-first century and will examine contributions women artists have made in the western art tradition. A broad range of artworks created by women will be explored for their historical, social, political and personal content. The course will explore major movements within art history by examining the contribution of women artists chronologically.	
ART 218	3	American Art
Description:	An overview of the visual arts in the United States. This course will cover the principal movements and trends in architecture, painting, and sculpture in American art from colonial to modern times.	
ART 219	3	Big Four Art Tour
Description:	Tours and lectures will be provided at each museum to look at art from a variety of views, collections, themes, history and medium of creation. Students will be introduced to how collections of art are formed and will learn about the four museums in Philadelphia. Students will be introduced to the works around the Impressionist period and compare how they are viewed in each museum. Students will experiment working with graphite, charcoal, watercolor and acrylics/gouache, and will become familiar with a variety of techniques for drawing and painting outdoors. Students will learn the basic elements of color mixing, composition, and spatial relationships, as well as how to investigate and analyze the effects of light and atmosphere in the landscape. No previous fine arts experience is required.	
ART 220	3	Art and Mindfulness
Description:	Learn about mindfulness and the use of art to engage in the benefits and practice of being in the present moment, mindfully. This course will help you in: Learning techniques to reduce stress, improve attention, enhance well-being, deepen empathy, and bring awareness to the present moment; Understanding the interplay of mind and body for being focused in the creative process; Using one's breath to develop awareness of focus, concentration, and peace of mind; Activating different parts of the brain.	
ART 301	3	Study Travel
Description:	Study/travel immersion course to France conducted in English. Attendance in scheduled on campus classes, participation in Study Abroad travel event, and completion of final paper required to receive credit. Limited enrollment. Travel costs additional.	
ART 302	3	Graphic Design I
Description:	Various aspects of graphic communication through the use of typography, photography, layout and general graphic techniques will be presented. Students will be encouraged to develop creative, original and conceptual ideas for solving communications problems utilizing professional studio practices and procedures. Lab work required. (Fee applies)	
ART 303	3	Painting I
Description:	A basic studio course designed to explore the elements of painting. Gradual experimentation with various media and techniques applied to studies in still life, landscape, and life. (Fee applies)	
ART 306	3	Ceramics I
Description:	This studio course develops pottery-making skills. The students experience the fundamentals of constructing clay objects, glazing, and firing hand-built ceramic ware. (Fee applies)	

Course	Credits	Title
ART 307	3	Potter's Whl & Hand Bldg Skills
Description:	This course develops the basic skills of pottery and provides an opportunity to develop the techniques of throwing pots on the potter's wheel. (Fee applies)	
ART 308	3	Interior Design
Description:	A study of the fundamentals of design as applied to the home. Development of living units to meet varied psychological, economic, and spatial needs during the life cycle.	
ART 311	3	Graphic Design II
Description:	This course will emphasize the observation and analysis of natural and man-made objects. This will lead students to create formalized graphic interpretations, developing images with correlation of text and their use with consideration for processes of reproduction. Studies outlined in ART 302 will continue with emphasis on the expressive possibilities of lettering and typography. Lab work required. (Prerequisite ART 302) (Fee applies)	
ART 319	3	Sculpture I
Description:	The oldest form of visual expression, the three-dimensional image, will be explored. Form, space, mass, and light will be studied through the making of representational and abstract configurations. The vehicle of expression is hollowed-out clay which will be fired to create permanent sculptures. (Fee applies)	
ART 401	1 TO 3	Independent Art Studies
Description:	This course involves the development of a special project with the permission and under the direction of a member of the department. (Fee applies)	
ART 403	3	Painting II
Description:	This studio course is designed to further develop the basics of painting and to apply these techniques to studies of still life, landscapes, and portraits. This course encourages application of fundamental painting skills toward more personally creative and expressive goals. (Prerequisite: ART 303) (Fee applies)	
ART 419	3	Sculpture II
Description:	This course provides students with the opportunity to learn the direct stone/wood carving technique. (Prerequisite: ART 319) (Fee applies)	
ATEP 201	3	Foundations in Athletic Trng
Description:	The fundamentals of athletic training, including the history, purpose, and professional standards of the National Athletic Trainers' Association (NATA). Introduction to the educational curriculum standards, career options, professional ethics and professional responsibilities as well as medical terminology and legal concepts as related to athletic training. Basic first aid and CPR/AED skills will be introduced. (Successful completion of this course is required for admission into the Athletic Training program.)	
ATEP 202	2	Fundamental Skills Athl Trng
Description:	Introduction to the foundational skill sets necessary to function at a proficient level at each clinical site. Techniques, principles, and theory will focus on developing essential cognitive and psychomotor competencies and proficiencies used in athletic training. Skill sets include but are not limited to: fitting of protective equipment, protective padding/splint fabrication, taping and wrapping skills, and modality application.	
ATEP 210	2	Clinical I
Description:	Course includes both didactic and experiential learning. Students will be assigned to assist the preceptors on campus or at an affiliated site with various sport assignments for a minimum of 100 hours. Focus of this clinical will be to understand the daily responsibilities of the certified athletic trainer and be introduced to the procedures for preventing, recognizing, evaluating, and treating athletic	

Course	Credits	Title
		injuries and illnesses. (Athletic Training majors only)
ATEP 301	0 OR 3	WI: Lower Extremity Evaluation
Description:		Introduction to procedures and tests used to examine and diagnose injuries of the lower extremities and spine. Students will be able to identify risk factors for musculoskeletal injuries and be instructed in theory and proper techniques for diagnostic and special tests, including neurological, strength and range of motion assessment. (Prerequisite BIOL 209-210) 2 hours lecture, 2 hours laboratory
ATEP 302	0 OR 3	Upper Extremity Evaluation
Description:		Introduction to the procedures and tests used to examine and diagnose injuries of the upper extremity, chest and head. Students will be able to identify risk factors for musculoskeletal injuries and illnesses and be instructed in theory and proper techniques for diagnostic and special tests, including neurological, strength and range of motion assessment. (Prerequisite BIOL 209-210) 2 hours lecture, 2 hours laboratory
ATEP 303	0 OR 3	Therapeutic Exercise
Description:		Focus on therapeutic exercises and rehabilitation used in the treatment of athletic injuries and illness. Introduction to various rehabilitation protocols stressing the importance of safe progression and body mechanics. Indications and contraindications for exercises are thoroughly examined. (Prerequisite BIOL 209-210). 2 hours lecture, 2 hours laboratory
ATEP 304	0 OR 3	WI: Therapeutic Modalities
Description:		Overview of the planning and implementation of therapeutic modalities used to treat injuries and illnesses. An introduction to the physical, chemical, and mechanical modalities will complement the students' understanding of wound healing and their purpose in the treatment protocol. Students will gain an understanding of the human body's physiological response to various treatment methods. (Prerequisite BIOL 209-210) 2 hours lecture, 2 hours laborator
ATEP 305	3	Athletic Trng Administration
Description:		Examination of the administrative policies and procedures related to state licensure, national certification, continuing education, legal concerns, and athletic training department staffing, budgeting, equipment maintenance and record keeping.
ATEP 306	3	Pharmacology and Pathology
Description:		Examination of how illnesses and pharmacological agents effect body functions, including the cardiorespiratory and musculoskeletal systems. Focus will be on common illnesses and diseases that strike the physically active population, as well as common medications prescribed to physically active individuals. The ethical dilemmas and legal ramifications surrounding the use of recreational drugs and performance enhancing drugs will also be discussed.
ATEP 310	3	Clinical II
Description:		Course includes both didactic and experiential learning. Students are assigned to a minimum of 150 hours working with a preceptor either on campus or an affiliated site. The didactic portion of the course will focus on student understanding of methods used to assess and treat upper and lower extremity injuries. (Prerequisite: Clinical I, Athletic Training majors only)
ATEP 311	3	Clinical III
Description:		Course includes both didactic and experiential learning. Students are assigned to a minimum of 150 hours working with a preceptor either on campus or an affiliated site. The didactic portion of the course focuses on student understanding of methods used to assess and treat upper and lower extremity injuries. (Prerequisites: Clinical I & II, Athletic Training majors only)

Course	Credits	Title
ATEP 312	3	Athletic Training Practicum
Description:	This practicum experience is designed to provide students with experiences in athletic training. Students will be assigned to one or more of the institution's clinical education sites. During this experience students will be exposed to the day-to-day routine of athletic trainers, while assisting with emergency first aid skills, and practicing basic athletic training techniques. Weekly seminar meetings will help students integrate their classroom knowledge and practical experiences.	
ATEP 401	3	Introduction to Research
Description:	Fundamental concepts of research introducing the students to research design, problem selection, review of literature, and research methodology. Students will develop their own research question for intensive study and proceed through the various steps of the research proposal process. (Prerequisite: PSY 208)	
ATEP 403	3	Athletic Training Seminar
Description:	Focus on current issues in athletic training. Students learn to become critical reflectors of published research and present their completed research projects at a department symposium. Students receive assistance in preparation for the National Athletic Trainers' Association Board of Certification (BOC) exam. (Prerequisites: ATEP 401, Athletic Training majors only, senior status)	
ATEP 410	3	Clinical IV
Description:	Focus is mainly on experiential learning in the athletic setting. Students will be assigned to a minimum of 200 hours working with a preceptor either on campus or an affiliated site. Students will also complete a didactic portion of the course to discuss issues related to these experiences, especially bringing classroom theory to practice. (Prerequisites: Clinical I, II & III, Athletic Training majors only)	
ATEP 411	3	Clinical V
Description:	Focus is mainly on experiential learning in the athletic setting. Students will be assigned to a minimum of 200 hours working with an ACI either on campus or an affiliated site. Students will also complete a didactic portion of the course that will focus on development as a professional in the field of athletic training. (Prerequisites: Clinical II, III, & IV, Athletic Training majors only)	
BIOL 100	0 OR 1	Intro to Biological Techniques
Description:	An introduction to the scientific method as well as the basic tools of modern biology from the microscope to gel electrophoresis. Designed for students who have completed a non-laboratory science course but need a laboratory component to fulfill core requirement. 2-hour laboratory	
BIOL 101	0 OR 1	Intro to Biological Techniques
Description:	An introduction to the scientific method as well as the basic tools of modern biology from the microscope to gel electrophoresis. Designed for students who have completed a non-laboratory science course but need a laboratory component to fulfill core requirement. 2-hour laboratory	
BIOL 103	0 OR 3	Human Biology & Ecology
Description:	Designed for students who have little science background or for students who want to increase their science knowledge. Case studies and interactive learning are used to present an overview of the body systems with an emphasis on current and practical knowledge of human anatomy and its functions. Students will research specific disorders and diseases as well as appropriate treatments. Also included is an understanding of the basic ecological interrelationships between man and the natural world. Students will analyze current ecological issues including invasive species, climate change, pollution and other environmental concerns. 2 hours lecture, 2 hours laboratory	
BIOL 104	0 OR 3	Cell Biology & Genetics
Description:	Designed for those interested in the health sciences, this course includes the principles of cellular life:	

Course	Credits	Title
		the chemistry, the structure, and the energetics of the cell as well as the principles of inheritance: cell division, chromosomes, human heredity, DNA structure and function, protein synthesis, recombinant DNA and genetic engineering. Laboratory activities will complement these topics. 2 hours lecture, 2 hours laboratory
BIOL 111	3	Introduction to Human Diseases
Description:		Designed for students with little or no science background, this online course provides an overview of various communicable diseases. The biological basis, mode of transmission, and treatments will be discussed as well as strategies for prevention and containment. The laboratory combines experimental and clinical investigations of several types of disease causing agents. 2 hours lecture, 2 hours laboratory
BIOL 112	3	Human Ecology
Description:		This online course is designed for students with no science background who wish to better understand current environmental problems and issues. Through use of online discussions, short essays, and laboratory reports, students examine and analyze the intricacies of current environmental issues on a local, regional and global basis. This course requires considerable independent thought, critical reading and thinking, and an interest in current environmental problems. 2 hours lecture, 2 hours laboratory. Students enrolling in BIOL112 cannot enroll in BIOL113.
BIOL 113	0 OR 3	Environmental Science
Description:		An introduction to environmental problems designed for students with no science background. This course presents an overview of current environmental issues with an emphasis on understanding the cause-effect relationships inherent in many of the environmental challenges we face today. Emphasis is placed on use of case studies, class discussions, laboratory investigations, and student presentations to study and analyze the issues. This course is engaging, but a serious course that requires considerable critical reading, an innate interest in the subject, and self-discipline to attend all the lectures and laboratories to do well. Business students are encouraged to learn concepts that can be applied to many current environmental fields. 2 hours lecture, 2 hours laboratory. Students enrolling in BIOL113 cannot enroll in BIOL112.
BIOL 115	0 OR 3	Biotechnology
Description:		Designed for students in business and those interested in the modern-day applications and controversies of biotechnology. This course will identify and explain the multi-step process of recombinant DNA technology and expression of a protein product and develop a business plan for its marketing. This course will also investigate biotech stocks and the use of bio-organisms as producers of energy. (Fulfills a core requirement) 2 hours of lecture, 2 hours of laboratory.
BIOL 204	0 OR 3	Microbiology for Food Science
Description:		Introduction to the basic principles of microbiology for students interested in the allied health professions, nutrition and food service management fields. This course is designed to provide a solid working knowledge of microorganisms and their relation to food, sanitation, health, and industry. 2 hours lecture, 2 hours laboratory
BIOL 205	0 OR 3	Human Genetics
Description:		A study of basic human genetics with a primary focus on gene transmission from generation to generation. Topics covered include human reproduction, gene transmission, biotechnology, epigenetics and genetic testing as well as basic gene expression. Laboratory will focus on classical genetics, molecular genetics and biotechnology to illustrate the rapidly advancing field of experimental genetics. 2 hours lecture, 2 hours laboratory
BIOL 207	0 OR 3	Human Biology
Description:		An introduction to the anatomy and physiology of the human body. All systems of the body will be considered with an emphasis on normal anatomy and physiology. 2 hours lecture and 2 hours

Course	Credits	Title
		laboratory
BIOL 208	0 OR 4	Microbiology for Health Sci
Description:	An exploration of the structure and function of microorganisms as they relate to the economy of nature; the role of pathogens in human disease; and methods of prevention of contamination. 3 hours lecture, 2 hours laboratory	
BIOL 209	0 OR 4	Human Anatomy & Physiology I
Description:	A study of the underlying process, at the cell, organ, and system levels of organization, which are the backbone of our modern understanding of the functioning human body; covers integumentary, skeletal, muscular, and nervous systems. 3 hours lecture, 2 hours laboratory	
BIOL 210	0 OR 4	Human Anatomy & Physiology II
Description:	Continuation of BIOL209; covers cardiovascular, immune, respiratory, digestive, urinary, reproductive, and endocrine systems. (Prerequisite: 209 or permission of instructor) 3 hours lecture, 2 hours laboratory	
BIOL 233	0 OR 4	Cell Biology
Description:	A study of basic cellular and biochemical processes to provide a foundation for advanced work in biology. Laboratory explores basic biological functions such as respiration, enzymatic digestion, cell structure and functions. (Pre- or co- requisites: CHE 101 or 103, MATH 203) 3 hours lecture, 3 hours laboratory	
BIOL 234	0 OR 4	Genetics
Description:	This course includes fundamental Mendelian principles of heredity as well as an introduction to molecular genetics. Topics covered include: DNA structure and function, protein synthesis, recombinant DNA, genetic engineering, viruses and biotechnology. Laboratory will focus on inheritance in fruit flies and an introduction to molecular biology techniques including restriction enzymes, PCR, and cloning. (Pre- or co- requisites: CHE 102 or 104, MATH 204 or 208) 3 hours lecture, 3 hours laboratory	
BIOL 245	3	Animal Behavior
Description:	Mentored exploration of the mechanisms, ecology, and evolution of diverse behaviors of animals. Emphasis on basic concepts and analysis of reported observations and experiments. Does not count as a lab science.	
BIOL 291	1 TO 3	Special Problems
Description:	Student-oriented laboratory, field, and/or literature studies. Admission to the courses by application to the Biology faculty.	
BIOL 292	1 TO 3	Special Problems
Description:	Student-oriented laboratory, field, and/or literature studies. Admission to the courses by application to the Biology faculty.	
BIOL 300	0 OR 4	HON: Special Topics
Description:	This designation is for courses offered as electives in the Undergraduate Honors Program, and may include both Honors-only courses and augmented Honors versions of courses that are offered elsewhere in the catalog. Courses have limited enrollment and content reflects Honors Program course outcomes around rigorous critical engagement, interdisciplinarity, effective communication, and meaningful collaboration.	

Course	Credits	Title
BIOL 305	0 OR 4	Principles of Evolution
Description:	A comprehensive overview of the theory of evolution including natural selection, genetic variation, evolution and population genetics, sexual selection, and evolution of certain traits. Laboratory studies include working with models of evolutionary processes and using artificial selection to observe microbial evolution. (Prerequisites: BIOL 234 or permission of instructor) 3 hours lecture, 3 hours laboratory	
BIOL 307	0 OR 4	WI: Ecology
Description:	This course focuses on how biotic and abiotic factors influence ecological adaptation. Population, community, and ecosystem level processes that generate the observed patterns of plant and animal distribution and abundance are studied. Patterns of diversity, stability, dominance, biogeography, succession, and behavior are examined. Principles are demonstrated through use of case studies, models, and field experiments. (Prerequisites: BIOL234 and SCI 250; or permission of instructor) 3 hours lecture, 3 hours field/laboratory	
BIOL 308	1	Botany
Description:	An introduction to the structure, growth, development, and responses of flowering plants. (Prerequisites: BIOL 234; or permission of instructor)	
BIOL 309	0 OR 4	Vertebrate Structure & Funct
Description:	A survey of vertebrate anatomy and physiology, placing vertebrate form and function within an evolutionary context. Beginning with fishes and ending with mammals, emphasis is placed on identification and description of key characteristics and evolutionary innovations of the vertebrate classes using a comparative approach. The laboratory involves making detailed comparisons among selected vertebrate types through observation, microscopy and dissection. (Prerequisites: BIOL233, CHE103; or permission of instructor) 3 hours lecture, 3 hours laboratory	
BIOL 310	0 OR 4	Developmental Biology
Description:	Developmental biology presents a classical and molecular analysis of our current understanding of embryonic development. A comparative approach is employed to demonstrate significant patterns in embryological development. Although vertebrate development is emphasized, other organisms are explored as time permits. Students conduct directed as well as independent research projects to explore the role of environmental agents on early embryonic development. (Prerequisites: BIOL234; or permission of instructor) 3 hours of lecture, 3 hours laboratory	
BIOL 323	0 OR 4	WI: Microbiology
Description:	Introduction to the microbial world with detailed study of bacteria: classification, morphology, physiology, and genetics, and the role of pathogens in human disease. Laboratory stresses aseptic handling and recognition of microorganisms, identification of unknown bacteria, and independent investigation. (Prerequisites: BIOL234; or permission of instructor) 3 hours lecture, 3 hours laboratory	
BIOL 335	0 OR 4	Principles of Physiology
Description:	Concentration on bioelectrical and biomechanical principles and their application to the functioning of cells and groups of cells, particularly in regard to epithelial transport, neurons, and muscles. (Prerequisites: BIOL234; or permission of instructor) 3 hours lecture, 3 hours laboratory	
BIOL 340	0 OR 4	Comparative Animal Behavior
Description:	A four-credit hour course with a laboratory component. It is intended to familiarize students with the perspectives, theories, and methods of the biological study of behavior. This course examines animal behavior from both a mechanistic and a functional perspective. The course will equip students to understand the variety, function, and evolution of animal behavior across a variety of species. We will examine the development, underlying neurology and physiology, adaptive function, and application of behavior to understanding feeding, habitat selection, communication, reproduction, parenting, etc. Current research advances will be stressed, including use of mathematical, statistical, and computer modeling approaches. Primary literature will be a focus of the reading assignments, supplemented by text material as deemed necessary. Students will be exposed to methods for the design, analysis and	

Course	Credits	Title
		interpretation of behavioral experiments. (Prerequisites: BIOL 234; or permission of instructo
BIOL 366	0 OR 4	Molecular Biology
Description:		An emphasis on the continuum of biological understanding, starting with basic properties of genes and genomes and extending to the complex interactions fundamental to all living organisms. This course will provide students with a comprehensive picture of the many ways molecular genetics is being applied to the analysis of complex systems. Laboratory will focus on molecular cloning methods including blotting techniques, transformation, electrophoresis, and fingerprinting as well as protein and antibody assays. (Prerequisites: BIOL234, or permission of the instructor; Co-requisite: CHE 211) 3 hours lecture, 3 hours laboratory
BIOL 391	1 TO 4	Biological Research
Description:		Students meeting certain academic requirements are invited to conduct a research project under the supervision of a Biology faculty member. (Prerequisite: 16 credits in BIOL200 and/or 300 level courses including 1 or 2 preparatory credits in BIOL291 and permission of department)
BIOL 392	1 TO 4	Biological Research
Description:		Students meeting certain academic requirements are invited to conduct a research project under the supervision of a Biology faculty member. (Prerequisite: 16 credits in BIOL200 and/or 300 level courses including 1 or 2 preparatory credits in BIOL291 and permission of department)
BUS 200	1 TO 3	Special Topics in Business
Description:		Current topics dealing with ongoing facets of business administration
BUS 235	3	Business Computer Applications
Description:		Designed for exploration and development of computer application skills in a practical business context. Computer applications covered include Microsoft Excel, Word and PowerPoint. Cloud computing and professional social networking are examined. These applications are applied to presentations, project planning, information display and research (Fee applies)
BUS 302	3	Personal Finance
Description:		Introduction to personal financial evaluation, management, and planning. The course provides the student with an understanding of consumer credit, life insurance, health insurance, property and casualty insurance, wills, trusts, Social Security, stocks, bonds, real estate, mutual funds, retirement planning, and other topics. Student may only receive credit for BUS 302 OR FIN 367.
BUS 303	3	History of American Business
Description:		The history of American business from colonial times to the present. The course offers a variety of case studies from well-known companies and industries and a thematic emphasis on government-business relations.
BUS 315	3	WI: Business Law I
Description:		Develops an understanding of the principles and doctrines of law as they relate to commercial transactions. Explores the impacts of judicial decisions (Case Law) and government regulation (Administrative Law) on business decisions and management. Discussions include: major classifications of law, types of business organizations, contract law as the foundation of all business transactions, and tort law and the operation of government regulatory agencies.
BUS 316	3	Business Law II
Description:		A study of the sources and enforcement mechanisms of administrative law (commonly known as government regulation) at local, state and federal levels with an aim for overall understanding of government administrative agencies and their impact on the operation of American businesses. Topics

Course	Credits	Title
		include environmental, employment, financial, banking and occupational safety laws.
BUS 320	3	Business of Health Care
Description:		An understanding of health care delivery in the United States. A comparative analysis with other nations will emphasize the complex nature of the health care industry. The course explores the changing nature of health and medical care and the implications for medical practice and health policy.
BUS 324	3	Entrepreneurship
Description:		How to start your own business: from concept to reality. A study of the challenges and responsibilities of an entrepreneur. Operational strategies concerning business, financial, and marketing plans, along with advertising, human resource, legal, and ethical issues.
BUS 327	3	Managing Business Information
Description:		A focus on the methods with which organizations access, compile, analyze, interpret and disseminate information and the way in which organizations use information in the planning, managing, and decision-making processes. The objective is to understand the constantly evolving role of information technology in providing the tools and techniques for effective use of management information.
BUS 338	3	Business Ethics
Description:		Provides students with insights into an organization's responsibilities to its stakeholders: employees, customers, shareholders, competitors, and the community at large. Moral principles and codes of ethics will be examined as the basis for the standards of leading and managing a commercial enterprise. This course is typically offered as a Service Learning (SL) course.
BUS 340	3	Topics in e-Commerce
Description:		An introduction to the business models, strategies, and tactics of doing business in the Internet economy. The course objective is to build a solid knowledge of e-commerce, current e-business trends, and the fundamental underlying web technologies, which will be achieved through case studies and online activities.
BUS 345	3	Global Business
Description:		This integrative course examines the challenges facing multinational companies in today's global economy. The course examines international political, legal, and economic differences, as well as cultural dimensions and foreign investment activities that companies must consider to compete in the global market place.
BUS 360	3	Business Management
Description:		Introduction to the structure and role of business management. Emphasis of discussions concentrates on the business strategies of planning, organizing, leading, staffing and controlling regarding policies and procedures.
BUS 365	3	WI: Strategic Planning
Description:		A survey of current concepts, models, and practices of strategic planning and resource allocation in a business organization. Discussions, exercises, and projects will provide practical experience with the development of organizational mission, vision and values statements, external and internal environmental analyses, long range goals and objectives, and implementation plans. (Students must hold senior status [90 credits] as department majors.) (Fee applies)
BUS 366	3	Leadership Dynamics
Description:		This course will develop an awareness of the knowledge, abilities, and skills that a professional needs in order to perform effectively in leadership situations. Areas of inquiry include examination of individual temperament, leadership theories and styles, leader-collaborator relationships, group and

Course	Credits	Title
		organizational dynamics, problem and decision analysis, and conflict resolution.
BUS 398	3	Business Practicum
Description:		This culminating course prepares students for the real challenges of working in business management. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. (Instructor permission required)
BUS 399	3	Business Practicum
Description:		This culminating course prepares students for the real challenges of working in business management. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. (Instructor permission required)
BUS 401	1 TO 6	Independent Study & Research
Description:		Provides an opportunity for a junior or senior to engage in independent study and research in a specific phase of the major field.
BUS 450	1 TO 12	Special Topics in Business
Description:		Advanced business studies special topics. (1- 12 credits)
BUSL 308	3	Technology in Decision Making
Description:		Technology is integrated throughout all areas of an organization. This course will focus on some of the major technology used in organizations, such as Microsoft Office products (Excel), SAP technology (such as Enterprise Resource Planning, through the SAP University Alliance) and Social Networking applications. These and/or other technology components, which are embedded throughout the curricular program, will be studied.
BUSL 375	3	Practices in Mgmt & Leadership
Description:		Management and Leadership theories and applications are examined. Relating planning, organizing, leading and controlling with many leadership styles focusing on the organization and its employees are necessary challenging skills in the 21st century.
BUSL 377	3	Corp Law&Social Responsibility
Description:		Develops an understanding of the principles and doctrines of law that govern the establishment and operation of business organizations. Explores the impacts of legislation (statutory law), judicial decisions (Case Law), and government regulation (Administrative Law) on business decisions and management. Discussions include: major classifications of law, types of business organizations, contract law as the foundation of all business transactions, tort law, and the operation of government regulatory agencies. Current trends in Corporate Social Responsibility that impact organizational governance and management are considered in light of their benefits to society.
BUSL 378	3	Team Leadership & Coaching
Description:		This course will develop the knowledge, abilities, and skills needed to lead high-performance teams in a rapidly changing, globalized commercial environment. Emphasis is placed on the study of group and organizational behavior, including examination of individual temperaments, interpersonal communication, leading change initiatives, mentoring, coaching and conflict resolution.
BUSL 393	3	Global Leadership
Description:		This course will develop a foundational understanding of the knowledge, abilities, and skills that professionals need in order to perform effectively in leadership situations in within globally-oriented business operations. Areas of inquiry include leadership theories and styles, interpersonal

Course	Credits	Title
		communication, emotional intelligence, group and organizational dynamics, problem and decision analysis, change management, and conflict resolution.
BUSL 394	3	Project Planning/Implementation
Description:	This course explores essentials of successful project management. Execution of complex projects requires decision-making clarity, and stakeholder alignment as well as alignment of the steps, timing, resources and capabilities with a project's overall goals. Throughout project implementation, effective communication, reallocation of resources and plan revisions impact success.	
BUSL 395	3	Bus Continuity & Disaster Mgmt
Description:	The course introduces students to business continuity management (BCM) including planning a holistic BCM program, human aspects BCM, response to a disaster, strategies for recovery, development of an exercise program, and plan maintenance.	
BUSL 396	3	Leading Strategy/Chng in Bus
Description:	Theories and practices of strategy development and execution are examined in business case scenarios. Key topics covered include vision-driven innovation, pursuit of differentiated competitive advantage, and deployment of distinctive capabilities. Although a plan is required to enact a strategy, often the most significant lever for success is establishing effective change. (Prerequisite: completion of 90 credit hours).	
CCS 101	3	Exchange Experience
Description:	The goal of this course is to develop intercultural competence among students that is consistent with the Immaculata University mission statement regarding "formation of the whole person for leadership and service, and empowerment of all to seek truth," and "promote justice." This program will introduce students to the world beyond which they know.	
CCS 103	3	Comparing Cultures-U.S./Others
Description:	Study of the assumptions and values of mainstream U.S. culture as contrasted with other cultures of the world. Oral presentations, roundtable discussions, and written essays to encourage contrastive analysis of U.S. and other cultures.	
CCS 115	3	East Asian Culture
Description:	In this survey course, students will read and discuss classical and contemporary sources regarding the history, socio-economic, religious, geographic, food and nutritional habits, immigration and aesthetic factors that have influenced the culture of China, Japan, and Korea. Students will experience various forms of East Asian culture present in our local area and reflect, through journaling, on their interaction with East Asian culture. They will research one specific area of culture and present their findings in their individual, culminating research paper and presentation to the class.	
CCS 201	3	WI: In the Shadow of Hitler
Description:	This course examines major works of German literature from the later 20th Century. The course focuses on how German authors and their readers have grappled with Germany's "freighted" past. This means German democracy and dictatorship, the moral responsibility for persecution and genocide, the moral responsibility of citizenship, and the anesthetic effects of material prosperity.	
CCS 320	3	Hispanic Culture
Description:	Students will learn the most important traits of the cultures of the Spanish-speaking world within and outside of the United States. They will further develop their sensitivity toward and appreciation of Hispanic cultures. Offered only through corporate training opportunities. (Prerequisites: SPAN 163, 164, 165)	

Course	Credits	Title
CCS 332	3	HON: Latinos in the U.S.
Description:	Study of the historical, literary, artistic development of Latinos in US, immigration issues and Latino participation in politics and civil life.	
CCS 335	3	HON: Global Studies
Description:	Theories of globalization. As the peoples of the world become more interdependent in terms of technology, economics, and cross-cultural exchange, various issues arise. Examination of the major views of globalization and its critics, studying how the process occurs in the context of one specific non-Western city.	
CCS 340	3	Cross Cultural Communication
Description:	Exploration of the dynamics of international diversity and intercultural communication within the context of the globalization of the world economy.	
CCS 341	3	Cultural Modes of Expression
Description:	Exploration of the nuances of intercultural expression in the global community for an awareness and sensitivity needed for mutual understanding in international affairs. (Offered only in ACCEL® accelerated format.) CUS student required special permission to enroll.	
CHE 100	0 OR 4	Survey of Chemistry
Description:	A survey of general, organic, and biochemistry with emphasis on basic chemical concepts and the relationships among these three branches. 3 hours lecture, 2 hours laboratory. (BSN, RN to BSN, Sport Management, and Movement Science students only)	
CHE 101	0 OR 3	Basic College Chemistry I
Description:	A basic course in the fundamental laws, theories, and experimental techniques of chemistry and the application of chemistry to relevant societal concerns. Introduction to scientific method, matter and elements, chemical reactions, chemical composition. 2 hours lecture, 2 hours laboratory.	
CHE 102	0 OR 3	Basic College Chemistry II
Description:	A continuation of CHE 101, continuing the study of the fundamental laws, theories, and experimental techniques of chemistry and the application of chemistry to relevant societal concerns. Introduction to chemical quantities, energy, modern atomic theory, chemical bonding, acids and bases. 2 hours lecture, 2 hours laboratory. (Prerequisite: CHE 101)	
CHE 103	0 OR 4	Fundamental Chem Concepts I
Description:	A systematic study of the theories and principles governing the composition and behavior of matter. Dimensional analysis, unit conversions, basic atomic theory, basic inorganic nomenclature, introduction to chemical reactions, stoichiometry, gases, and thermochemistry. 3 hours lecture, 3 hours laboratory. (Prerequisites: Secondary school chemistry with at least a B grade or CHE 101-102 at Immaculata with at least a B grade, or permission of the instructor. Pre- or Co-Requisites: MATH 207/208)	
CHE 104	0 OR 4	Fundamental Chem Concepts II
Description:	A systematic study of the theories and principles governing the composition and behavior of matter. Valence bond and molecular orbital theory, solutions, inter- and intramolecular forces, chemical equilibrium, chemical kinetics, and electrochemistry. 3 hours lecture, 3 hours laboratory. (Prerequisites: Secondary school chemistry with at least a B grade or permission of the instructor; (Pre-requisite or co-requisite: CHE 103, Pre-requisite or co-requisite: MATH 203 or MATH 207).	
CHE 105	0 OR 3	Forensic Science
Description:	An introduction to the terminology and techniques used in forensic science. The course will include basic general, analytical and organic chemistry as applied to the analysis of physical evidence such as glass,	

Course	Credits	Title
		hair, fibers, fingerprints, firearms, blood, arson analysis, drugs, poisons, DNA, and other relevant forensic topics. Application of the techniques in the laboratory will provide hands-on experience of analytical techniques used in the forensic field.
CHE 110	1	Lab Techniques in Chemistry
Description:	A two-hour introductory laboratory for those who need a one credit laboratory course.	
CHE 200	3	WI: Chemical Literature
Description:	An introduction in how to retrieve and understand chemical information from print and electronic sources. Discussion topics will include: the process of conducting research in chemistry, grant writing, manuscript preparation, the process of peer review, major publishers of chemical literature, different types of journals, and the various types of publications. The course will survey current chemical issues and research. 3 hours lecture	
CHE 201	0 OR 3	Introductory Organic Chemistry
Description:	A basic course in the study of carbon compounds. Classification of organic compounds, nomenclature, chemical and physical properties of organic compounds, stereochemistry, and introduction to organic reactions. 2 hours lecture, 2 hours laboratory. Open to students who are not concentrating in chemistry. (Prerequisites: CHE 101-102 or CHE 103-104)	
CHE 202	0 OR 3	Introductory Biochemistry
Description:	An introduction to the study of lipids, proteins, carbohydrates, and nucleic acids in relation to metabolism. Open to students who are not concentrating in chemistry.(Prerequisite: CHE 201or CHE 211) 2 hours lecture, 2 hours laboratory	
CHE 211	0 OR 4	Organic Chemistry I
Description:	A comprehensive study of the structure, reactions, and reaction mechanisms of organic compounds. Classification of organic compounds, structure and bonding, nomenclature, stereochemistry, spectroscopy, and physical organic chemistry. 3 hours lecture, 3 hours laboratory (Prerequisite: CHE 103-104 with a grade of C or better)	
CHE 212	0 OR 4	Organic Chemistry II
Description:	A comprehensive study of the reactions and mechanisms of organic compounds with an emphasis on synthesis and how molecular structure effects reactivity. Carbonyl chemistry, amines, substitution reactions, addition and elimination reactions, aromaticity and electrophilic aromatic substitution. 3 hours lecture, 3 hours laboratory. (Prerequisite: CHE 211)	
CHE 300	0 OR 3	HON: Special Topics
Description:	This designation is for courses offered as electives in the Undergraduate Honors Program, and may include both Honors-only courses and augmented Honors versions of courses that are offered elsewhere in the catalog. Courses have limited enrollment and content reflects Honors Program course outcomes around rigorous critical engagement, interdisciplinarity, effective communication, and meaningful collaboration.	
CHE 304	0 OR 4	Instrumental Analysis
Description:	Gravimetric, volumetric, and instrumental analysis with emphasis on application of analytical separation techniques, spectroscopic methods, and other methods. 2 hours lecture, 4 hours laboratory (Prerequisites: CHE 103-104 and CHE 211-212)	
CHE 309	1	Process Chemistry
Description:	This course is a survey of process chemistry, a support branch of synthetic chemistry. Topics covered include: the SELECT paradigm, comparison of batch versus continuous flow chemistry, retrosynthetic	

Course	Credits	Title
		analysis, case studies from pharmaceuticals and chemical manufacturing and design of experiments (DoE). (Pre/Co-reqs: CHE 211, 212)
CHE 310	3	Structural Organic Analysis
Description:		Qualitative organic chemistry presented via a spectroscopic methodology supplemented by classical chemical and physical techniques. Topics include mass spectrometry, infrared spectroscopy, 1&2D NMR, multi-nuclear NMR, advanced NMR methods, and electron spin resonance (ESR). (Prerequisites: CHE 211-212)
CHE 313	0 OR 4	Physical Chemistry I
Description:		A qualitative and quantitative study of the properties of bulk matter. Classical chemical thermodynamics, fundamental thermodynamic functions, 1st, 2nd, and 3rd laws, electrochemistry, equilibria, properties of solutions, colligative properties, application of thermodynamics to biological processes, and chemical kinetics. 3 hours lecture, 3 hours laboratory (Prerequisite: CHE 211-212)
CHE 314	0 OR 4	WI: Physical Chemistry II
Description:		A qualitative and quantitative study of the microscopic properties of matter. Statistical thermodynamics, partition functions, Quantum mechanics, chemical bonding, molecular symmetry/group theory, spectroscopy, IR, Raman, ESR, and NMR. CHE 313 is not a prerequisite. 3 hours lecture, 3 hours laboratory (Prerequisite: CHE 211-212)
CHE 315	3	Physical Chemistry III
Description:		A study of the solid state, chemical processes at surfaces, and the role of photochemistry and photobiology. 3 hours lecture (Prerequisite: CHE 313-314)
CHE 317	1	History of Chemistry
Description:		The evolution and ethics of modern chemistry from the late 1800s. 1 hour lecture
CHE 318	3	Advanced Organic Chemistry
Description:		Physical organic chemistry, the thermodynamic and kinetic basis for organic reactions. Mechanisms of organic reactions and methods for studying them. 3 hours lecture (Prerequisite: CHE 211-212)
CHE 320	3	Inorganic Chemistry
Description:		In-depth study of atomic and molecular structure related to metal and metalloid compounds. Review of acids and bases. Study of the structure and reactivity of the main group elements, transition metal, and organometallic complexes and compounds. Use of spectroscopic data in interpreting structure and reactivity of inorganic compounds. 3 hours lecture (Prerequisite: CHE 313)
CHE 326	3	Fundamentals of Medicinal Chem
Description:		An introductory course in drug discovery and drug design. Topics include: the drug discovery process, organic chemistry of drug synthesis (lead compounds and analogues), therapeutic areas elementary pharmacokinetics and pharmacodynamics, receptor sites and drug targets, optimization of physico-chemical properties, and mechanisms of drug action in biochemical pathways. (Prerequisite: CHE 211) 3 hours lecture
CHE 327	0 OR 3	Analytical Chemistry
Description:		The course is an advanced chemistry elective with an emphasis on classical quantitative chemical analysis applicable to topics important to chemistry and biology majors. Topics will include: sample

Course	Credits	Title
		preparation, equilibrium, statistics for analysis of data; methods will include, titration, gravimetric, volumetric, potentiometric and colorimetric analysis. (Pre-requisite: CHE 211) 2 hours laboratory, 1 hour lecture
CHE 330	3	Biochemistry I
Description:		Physical and chemical behavior of biomolecules, receptors/signaling mechanisms, and a consideration of metabolism. 3 hours lecture. (Prerequisite: CHE 211 with a grade of C or better; Pre-requisite or Co-requisite: CHE 212)
CHE 331	3	Biochemistry II
Description:		Selected topics in metabolism, biosynthesis, hormonal regulation, and information pathways of biomolecules. 3 hours lecture. (Prerequisite: CHE 211 w/min grade of C; Co-requisite: CHE 212)
CHE 399	1 TO 3	Intro Lab & Recitation Tchg
Description:		This course is a one semester laboratory course where the student works with a faculty member teaching either a CHE 1XX or CHE 2XX level course. The student will be exposed to safety, setup and mentoring the students during the laboratory hours under the direction of the laboratory instructor. In addition the student will serve as a tutor and mentor for those students enrolled in the laboratory course. They will not be involved in any grading of the enrolled students. It is open to any STEM or secondary education certification student. (Prerequisites: a grade of B or better in CHE 103/104 and CHE 211/212)
CHE 401	1 TO 6	Advanced Research in Chemistry
Description:		Student works on a laboratory research project with permission and guidance of a Chemistry Department faculty member.
CHE 402	1 TO 6	Advanced Research in Chemistry
Description:		Student works on a laboratory research project with permission and guidance of a Chemistry Department faculty member.
CIS 105	3	Introduction to Programming
Description:		Introduces computing concepts using a visual environment which simplifies the complexities associated with computing. Provides an understanding of computing constructs, logic, algorithms, and problem solving.
CIS 203	3	Computers and Information
Description:		Explores how and why computers are bringing about the current shift in the meaning of and the access to information. Hands-on use of computers will be an essential ingredient in the development of the knowledge and skills necessary to use computers for common business applications, in an understanding of the fundamentals of technology, and in the ability to assess the advantages and limitations of computers. (Accelerated format only)
CIS 209	3	Introduction to Linux
Description:		Explores the role of the Linux operating system within computer systems. This includes hands-on experience installing and administering Linux. Emphasis will be placed on utilizing Linux in a professional setting.
CIS 218	3	Software Design&Programming I
Description:		Applies intermediate concepts for designing and creating software applications. Content includes problem solving, algorithm design, decomposition of complex ideas into manageable and understandable components, evaluation of algorithm design and implementation via an object-oriented

Course	Credits	Title
		programming. (Prerequisite: MATH 216 and CIS 105, an approved prior programming course, or instructor's approval)
CIS 224	3	Database and Information I
Description:		Introduces the fundamentals of database, including: development life cycle, data modeling, SQL, architecture, and a survey of new developments. Hands-on projects give the student practical experience with these concepts. If CIS 224 is taken, CIS 226 cannot be taken.
CIS 226	3	Databases:Querying & Reporting
Description:		Introduces the concepts driving the data modeling process with an emphasis on interpreting data models, creating queries via Structured Query Language (SQL), and determining reporting requirements. If CIS 226 is taken, CIS 224 cannot be taken.
CIS 317	3	Networks and Infrastructure
Description:		Introduces technical strategies in terms of the hardware, software, and networking concepts that form the infrastructure supporting data communication for organizations.
CIS 326	3	Data Structures
Description:		Explores basic concepts of data organization. Topics include strings, lists, graphs, and trees; file structure; searching and sorting techniques, applications. (Prerequisite: CIS 218, approved prior programming course(s), or instructor's approval)
CIS 335	3	Technology and Ethical Issues
Description:		Presents the social and professional environment and context in which information technologists work. Explores the historical, ethical, and legal aspects of computing as it applies to organizations. Also develops communication and teamwork skills relevant to presenting technical information.
CIS 343	3	Analysis and Modeling
Description:		Introduces concepts and approaches used to perform systems analysis and design. Students learn analysis and design modeling techniques. Pre-requisite: CIS 218 with a C+ or above.
CIS 345	3	Data and Information II
Description:		Explores advanced topics of data theory and practice, including data quality, data integration, data administration, and overviews of distributed databases and object-oriented data modeling. (Prerequisite: CIS 224)
CIS 351	3	Software Design&Programming II
Description:		Applies advanced concepts for designing and creating software applications. Continues the development of problem solving, algorithm design and implementation via object-oriented programming begun in CIS 218 (Prerequisite: CIS 218)
CIS 405	1 TO 3	Professional Internship
Description:		A limited-enrollment, mentored professional field experience in the application of computer-science skills. Students apply for positions that will provide hands-on field experience and enhance career readiness. (By prior arrangement with a member of the department)
CIS 411	3	Algorithms
Description:		Computer algorithms are presented and implemented using a compiled programming language. This course will discuss asymptotic notation and its use in evaluation the space and time complexity of the programs. Divide-and-Conquer, Greedy, and Dynamic programming will be among the techniques

Course	Credits	Title
		presented.
COM 190	1	Theatre Practice
Description:	Participation in the fall or spring production of Cue and Curtain (major role or responsibility). Open to all students who qualify by audition or experience.	
COM 200	3	Business & Technical Writing
Description:	An introduction to style and forms in business and technical writing with emphasis on an understanding of global communication in the modern workforce and the importance of purpose and audience, using direct writing and clear language.	
COM 201	3	Sign Language I
Description:	American Sign Language (ASL) is the language used by the Deaf Community in the United States. American Sign Language I will help students learn vocabulary and the sentence structure needed to communicate through American Sign Language.	
COM 202	3	Sign Language II
Description:	American Sign Language (ASL) is the language used by the Deaf Community in the United States. American Sign Language II will continue the learning started in American Sign Language I and help students learn vocabulary and the sentence structure needed to communicate through American Sign Language. (Prerequisite: COM 201)	
COM 206	3	WI: Journalism
Description:	An introduction to the practice of journalism and the role of the journalist in today's media world. Students will demonstrate an understanding of and enjoy the process of journalistic writing in all of its steps.	
COM 207	3	Intro to Creative Writing
Description:	Discussion of terms, strategies, and professional models in poetry and fiction with practice in writing and critiquing.	
COM 208	3	Cell Phone Photography
Description:	This course will engage in critical thinking as to the intent of cell phone cameras in our culture and provide theory to support some discourse on responsible use of such devices while also providing instruction on maximizing both picture and video usage of these cell phones to fully engage, appreciate, and capitalize on the values of such in the fields camera functions & operation, workflow, cell phone photo apps, and photoshopping/editing images with phone apps.	
COM 209	3	WI: Short Story Writing
Description:	Story-telling in America has a long and engaging history tied to the evolution of national identity, the growth of the magazine industry, and the proving ground for major literary movements and styles. This course looks to explore as much of that rich history, (as chronologically and diversely as possible), while touching on both well-recognized and underappreciated purveyors of the genre.	
COM 210	3	Broadcasting Basics
Description:	Introduces students to broadcasting history and medium. Includes principles of voicing, posture, composure, copy editing, and interaction with copy on the screen.	
COM 211	3	HON: Media and Love
Description:	On film and through new technologies, media have influenced how we find romantic love, what we	

Course	Credits	Title
		expect from romance, and where or with whom we make meaningful connections. This course will ask students to think critically about media representations in American Culture, as well as new technologies of love. Do media help us understand and practice love? If not, how can we expand our conception of love beyond formulaic narratives and compatibility matrices? Why is popular culture so myopically focused on romantic love? How are different kinds of love connected to our search for a happy and meaningful life? Our exploration will be theoretically grounded by readings in Cultural Studies, which proposes media representations as ideologically charged through rhetorics of difference (race, class, gender, etc); Media Ecology, which sees new technology as an environment that dictates the kind of conversations we can have, who can speak, and who can listen; and perspectives on the concept of love
COM 212	3	Video Production Basics
Description:	An introduction to the process of video production for professional use. Students would learn how to: plan a video production, operate various pieces of production equipment, produce a program, evaluate the quality of finished video productions, and determine the appropriate type of production for a given circumstance.	
COM 216	3	Media Scriptwriting
Description:	Introduction to writing scripts for broadcast radio and television, cable systems, and podcasts. Students learn the process and appropriate formats for writing continuity, including commercials and PSAs, as well as long-form informational programs.	
COM 217	3	Broadcast Performance
Description:	An introduction to voice and body work in front of the camera through basic elements of anchoring, weather reporting, sports casting, interviewing, and commercial reads for both radio and television.	
COM 218	3	Broadcast Marketing
Description:	This course covers translating marketing objectives into media objectives, analyzing audience data and estimating costs, as well as buying and selling advertising time and space for radio, television, Internet and mobile. Students will learn to evaluate all major media assessing their inherent strengths and weaknesses to ultimately develop focused media campaigns and compelling media presentations.	
COM 220	3	Media Programing
Description:	Introduction to the theory and practice of programming for electronic media, including broadcast radio and television, cable TV, satellite radio and TV and online video and audio.	
COM 221	3	Broadcast Performance II
Description:	An extention of the broadcast performance class focusing on finer skills sets of broadcast arts culminating in a full-class project benefitting the university. (Pre-requisite: COM 217)	
COM 222	3	Health Communication
Description:	How do we talk about "health?" How should important health information be delivered? Can we really create healthy behaviors through targeted communication? In the first half of the semester, students will be introduced to issues in doctor-patient interaction, social and cultural perspectives on health, mass media representations of healthy and risky behaviors, and communication within health organizations. In the second half of the semester, students will develop health communication campaigns designed to address real-world health problems through the application of health communication theory and research.	
COM 224	3	WI: Writing for the Web
Description:	This course focuses on the language, form, presentation value, and effective communication of email, business and corporate websites, blogs, wikis, microblogs and professional social networking sites as a response to and in continued anticipation of cultural shift to on-line self-sufficiency.	

Course	Credits	Title
COM 225	3	The Film Experience
Description:	Introduction to and analysis of literary, sensory, technical, genre-based, and production aspects of film. This will largely be accomplished via film clips and reaction papers. A cohesive study of entire films presented in long papers will culminate the course.	
COM 226	3	Mass Media
Description:	A survey of the historical development and contemporary issues of both print and non-print media with a focus on mass media as it pertains to our digital world today. This course is a deliberate review of basic communication theory and seeks to comprehend the historical contexts of major mass media entities while developing a capacity for strategic thinking when considering media.	
COM 227	3	Decoding the Media
Description:	Media, the great monolith, and the entity that is so full of biases and light on objectivity thrives in this hyper-connected, reflexive, postmodern world, and it is not going away; in fact, it will only continue to be exacerbated, so one might as well strive to be media literate, at least in a cursory sense. That is where this course comes in. Media, collectively, are full of narratives and intents seeking audiences and attention. However, media literacy is very much about the stories we as audiences generate about said media. A one semester course cannot offer a comprehensive understanding of media literacy, but attempts at providing some structure, insight, confidence, and agency in relation to understanding and engaging media are realistic expectations.	
COM 228	3	Women and the Media
Description:	This course investigates the relationship of women and media through film, television, magazines, news, politics, advertising, and the internet. Media, collectively, are full of narratives and intents seeking audiences and attention. However, media literacy as it pertains to women is very much about who or what is driving those stories and the cultural impact they leave upon us. The ultimate goal is to determine if there are women in media today who are self-actualized enough to transcend stereotyping and exploitation and what our cultural response is to such women.	
COM 229	3	The American Road Movie
Description:	This class will investigate the history and evolution of the road movie in American film while simultaneously considering the genre's reflection on America and its ever-changing social and cultural landscape.	
COM 230	3	Global Media
Description:	An examination of the role of communication media in the context of changing global realities. The course examines the theoretical underpinnings of understanding multiculturalism and the effect of the processes that constitute difference as we define it. The course explores the multicultural practices, theories, policies, normative models, relationships between media and society, and the production of cultural diversity. (Fulfills the required course for the Global Studies Minor)	
COM 231	3	WI: Intercultural Communication
Description:	The purpose of this course is to expand your understanding of intercultural communication and the practical applications of such knowledge to intercultural relations and cross-cultural communication. To this extent, we will analyze issues connected to the conceptualization of culture and the importance intercultural communication has for your personal life; we will examine verbal and nonverbal messages in intercultural communication; and finally, we will focus on intercultural communication in several contexts, such as organizational, interpersonal, or media. By the end of the course, you should have gained a better understanding of the values, beliefs, and behaviors of people from other cultures, as well as your own. In addition, you will have gained new skills that permit you to analyze quotidian events from an intercultural perspective and to communicate in a culturally effective manner with people from other cultures.	
COM 232	3	Narrative and Screenwriting
Description:	Introduces students to tools, vocabulary, and techniques used to tell a screen story and take an original	

Course	Credits	Title
		idea to outline form. Students become familiar with screenwriting terminology as scenes from well-known films are analyzed to reveal structural elements in the writing. By the end of the course, students have developed an original idea into a detailed short-length screenplay.
COM 233	3	Short Films
Description:		Students will take the screenplays from COM 232 and learn all of the production attributes of film necessary to bring those screenplays to life in the form of 10-20 minutes films.
COM 234	3	WI: Life Writing
Description:		An introduction to the contemporary memoir and the related genres of life writing, the autobiographical essay, the personal essay, etc. The course will require a balance of reading well-known contemporary authors as well as working on our own essays, including weekly writing, sharing, editing, and providing feedback to others. Topics covered will include defining memoir, the nature of memory and truth, how to make our life experiences accessible to readers, form, scene, character, voice details, and methods for critique and revision. Students will also document their writing process through memos, drafts, and a final portfolio project.
COM 236	3	Children's Theatre
Description:		Introduction to stagecraft with practical applications to productions for children.
COM 237	3	Film Genre Study
Description:		This course will focus on specific genres, directors, themes or eras in film as comprehensively as possible through critique and analysis of film directly and consideration of cultural context and critical analysis and academic evaluation of said theme. The topic of the course will be a revolving one.
COM 238	3	Communication Research Methods
Description:		This course gives students the tools to design, write, and present primary communication research in both academic and professional contexts. Developing the literacy to interpret and evaluate published research will also be stressed. The research methods introduced will include experiments, surveys, content analysis, focus groups, interviews, and participant observation.
COM 239	3	Intro to Public Relations
Description:		Focus on how the discipline of public relations evolved, and how public attitudes are influenced by the media. Students will learn to recognize ethical and legal implications of media situations.
COM 240	3	Forms of Professional Writing
Description:		A study of the style and forms of business and professional writing with emphasis on direct sentence patterns and clear language. (Offered only in the accelerated format.)
COM 241	3	Talk about Wrtg:Pedagogy&Prac
Description:		Introduction to writing center scholarship, theory, and practice. Students will explore how writers engage with each other and the writing process, and will become familiar with ways of responding to writers in one-to-one contexts. Open to those who already work or wish to work in the Immaculata Writing Center as a Writing Assistant, as well as to students interested in broader issues of writing studies and teaching at the secondary and college levels.
COM 242	3	WI:Investigating Identity:Wrtg
Description:		Issues of race, gender, class, and disability and the ways these impact the teaching of writing are introduced. Students learn and contrast disciplinary conventions and features of academic genres to understand how embedded values inform writing style. Through exploring how tutor and writer identities are implicated in the tutorial and examining language from various sociolinguistic, multi-literacy, and

Course	Credits	Title
		translingual perspectives, students learn how to navigate differences to collaborate with writers in meaningful ways.
COM 243	3	WI: Contempry Issues Prof Wrtg
Description:		An introduction to the range of career opportunities and responsibilities within the field of professional writing as learned through article presentations, writing workshops, and discussion/research on current newsworthy issues. This course is geared to English and Communication majors, interested in exploring various types of professional writing as it exists in the current media landscape and is designed to address myriad and varied writing styles, culminating in a revised portfolio of all efforts that the writing students have accomplished.
COM 250	3	Public Speaking
Description:		Development of communication techniques through speech writing and delivery. This course helps to ease communication apprehension, organize speech material appropriately, and develop verbal and nonverbal techniques for delivery.
COM 251	3	Broadcast Journalism
Description:		This course will address the intersection of print journalism with the digital world and all of its complications and ethical implications contained therein while still assiduously pursuing the story
COM 270	1 TO 3	Spec Topics in Communications
Description:		This independent research enhances academic rigor while applying theories or processes to a specific field in communication studies.
COM 278	3	Digital Cityscapes
Description:		An introduction to the variety of digital publishers covering Philadelphia culture, the characteristics of art and culture reviews and review-essays, researching and meeting the standards for a particular web publication, exploring Philadelphia's cultural scene independently, and reflecting on the relationship between suburban campuses like Immaculata and the city of Philadelphia. All assignments will contribute to a course website.
COM 305	3	Communication Theory
Description:		An introduction to theories and principles of communication as they apply to various communication environments, such as interpersonal, small group, organizational, and public communication. This course explores the nature of communication theory, how theory is developed, and how it is used. The approach will be both conceptual and applied. Thus, the student will gain proficiency in using theories to describe, explain, understand and practice communication.
COM 306	3	WI: Adv Reporting&Feature Wrtg
Description:		Planning, researching, and writing in-depth news projects and features with attention to writing for radio and television. (Prerequisite: COM 206 or instructor approval)
COM 308	3	Media Ethics and Law
Description:		An introduction to historic rationales that determine the balance between freedom of expression and control of the mass media of communication in the United States. The course will focus on the historic legal rulings and the reasoning behind efforts to expand or to limit the expressive rights of journalists and other users of the mass media. It will emphasize the important distinction between legal and ethical obligations and constraints.
COM 312	3	Field Reporting and Production
Description:		Introduces students to field reporting techniques, scenarios, and single camera field production.

Course	Credits	Title
		Students learn about planning and production strategies, shooting to edit, and time code editing systems. (Prerequisite: COM 217 or 221)
COM 320	3	WI: Short Scripts that Sell
Description:		There is a demand for short scripts, particularly in corporate America, but very little information on how to craft the kinds of short scripts that sell. This course will guide students in how to craft both narrative short scripts that exist purely for entertainment purposes (which must abide by certain considerations that feature screenplays do not), and then how to take those skills one step further and craft short scripts that can be monetized for corporations, such as those used for training videos, conference introduction videos, and inspirational/mission statement videos.
COM 329	3	Digital Portfolio Development
Description:		Senior level course focusing on the development of a digital portfolio for presentation to professional and graduate-level audiences. The portfolio will highlight professional level work created by the student via a digital platform. Together, we will examine various approaches to portfolio creation and different scenarios of their use and application. Other visual presentation material, such as mailers, and handouts will also be examined. Methods and theories of formatting, layout, visual narrative, and graphic impact will be investigated. Entry into the professional world will be further prepared by the creation of resumes and interview documents, and the examination of networking, public speaking, and interviewing techniques.
COM 330	3	WI:Proposal and Grant Writing
Description:		This course teaches the entire proposal writing experience of research, funders, project definition, letters of inquiry, proposal components, and tracking systems all through the spectrum of practical experience with real non-profits.
COM 331	3	Social Media Relations
Description:		Social media is rapidly changing the way businesses interact with their target audiences and markets. A happy or unhappy customer used to tell 10 people about their experience, today they can tell 10,000+ in minutes. Businesses of all sizes need to understand how this new way of communication is changing their competitive landscape. Public relations professionals need to understand how to communicate via social media platforms since it has become an important communication vehicle for target publics. This course provides an in-depth understanding of the use of social media as a form of business communication by public relations professionals as well as strategies and tools to aid in the decision-making process.
COM 333	3	Media Relations
Description:		Discussion of processes for building appropriate media kits, following ethical standards and use of technology in communicating with the public. Relationships between the promotion of products, services, and the entire organization will be investigated.
COM 334	3	Trends in Public Relations
Description:		Course focuses on exploring current or special topics of relevance to public relations, journalism and communication majors and minors. Possible invited guest instructors or speakers will bring current professional expertise into the course. Expectations of the student in this course approximate those in other 300-level courses.
COM 335	3	Crisis Communication
Description:		Utilization of case studies and events to decipher practical crisis management processes that will help prevent and handle unexpected organizational incidents that can damage corporate reputation and client trust. Planning, preventing and repairing unexpected organization incidents will be investigated. Inclusion of issues management with crisis communication. Issues management (IM) involves scanning the social, political and environmental communities for issues that affect the organization's structure, function and responses.

Course	Credits	Title
COM 336	3	Community,Govern & Global Rels
Description:	Investigation of communication on multiple levels including profit and non-profit organizations and the analysis of processes dealing with community, government and international clients. Case studies and strategies will be discussed.	
COM 337	3	WI:Wrtnng for Public Relations
Description:	An advanced review of both the purpose and process of public relations writing. This course emphasizes stylistic procedures of writing including; planning, researching, targeting an audience, using the appropriate media format and writing for new emerging media. Successful students will be able to attend job interviews with a strong assurance that they have had professional exposure to the writing required for a public relations career. (Prerequisite: COM 239)	
COM 338	3	HON: Political Communication
Description:	This course is an introduction to the field of political communication, and uses conceptual approaches to analyzing forms of political communication including advertising, speech making, campaign debates, and politicians' use of news. The focus of this course is on the interplay in the U.S. between television and politics, the functions of media in election contests, and the ways that campaign & media organizations seek to manipulate each other; these processes have a great deal to do with the way our contemporary government functions and how the political debates of our age are shaped. The course includes a history of practices from the 1948 through 2012 presidential elections, as well as selected congressional, senatorial, and gubernatorial campaigns.	
COM 339	3	WI:PR Campaigns & Case Studies
Description:	This course offers students the opportunity to review, discuss, analyze and design public relations campaigns across a variety of disciplines. Students will enhance their understanding of public relations principles by analyzing past and present case studies, while developing their practical skills by creating public relations campaigns to address organizational needs.	
COM 340	3	Small Group Communication
Description:	An introduction to communication skills needed when working with people in small group settings. The focus is on developing a working knowledge of the theory and skills needed for participation in problem-solving groups.	
COM 341	3	WI:Research, Assessment & Trng
Description:	This course will focus on issues of writing center administration related to research, assessment, and training. Students will explore various models of staff training, learn how to conduct assessment, and be exposed to research methodologies in writing center studies while undertaking their own research project related to the Immaculata Writing Center. Prerequisite: ENG 106 and 107 or ENG 117 (or equivalent).	
COM 342	3	Writing Cntr Scholarshp Project
Description:	Advanced research in a chosen area of writing studies, culminating in a scholarly written project with the aim of publication or conference presentation.	
COM 350	3	Business&Professional Speaking
Description:	An advanced review of communication principles, communication skills, and leadership. Thus, the individual student gains much practice in public speaking. The best way to improve in this area is to repeat the process for understanding and confidence. The techniques of public speaking, such as eye contact, gaining audience interest, and organizing the presentation will be addressed.	
COM 355	3	WI:Effect Bus Comm Digital Age
Description:	Emerging communication technologies are drastically changing the current representations of the organizational environment. Constructs of identity, community, physical space, transparency, expediency of information dissemination, and the means through which it is expressed have all been	

Course	Credits	Title
		altered reflecting the impact of the digital age and its processes. This course will explore the role of effective communication in the organization with an emphasis on learning current best communication practices, anticipating future communication developments in the digital age, and bridging the communication gap between younger generations inured in technology and those continuing to adapt to the frenetic changes such technologies inspire for organizations. The course will assess and practice implementing how new communication technologies affect the organization, its evolving culture, processes, and decision-making choices in light of this ever mutable digital age.
COM 356	3	Novel Writing
Description:	This course will give professional writing majors, and more specifically, professional writing majors with a creative writing concentration, another diverse genre of writing to engage in with strong insights into the freelance and publishing company pursuits of such writing.	
COM 401	1 TO 3	Independent Study
Description:	Advanced research in a chosen area of communication study or advanced writing in a specific mode. (Agreed upon by the student and instructor, with permission of the department.)	
COM 402	1 TO 3	Independent Study
Description:	Advanced research in a chosen area of communication study or advanced writing in a specific mode. (Agreed upon by the student and instructor, with permission of the department.)	
COM 403	3	Communication Field Exper I
Description:	This course is for junior and senior communication students who wish to gain practical, curriculum-related experience in the field of communications. Students will complete a 145-hours of practical experience within a communication under professional supervision and with the support and feedback of their fellow peers completing similar internships. This course can be taken multiple times for credit but not at the same organization. Internship hours run concurrently with the course and students must complete internship paperwork prior to enrolling. Communication Field Experience I and II must be with taken with different organizations. (Prerequisites: COM 305 and Instructor Permission)	
COM 404	3	Theatre Internship I
Description:	Practical experience in play direction or stage management under the supervision of the faculty director.	
COM 405	3	Theatre Internship II
Description:	Practical experience in play direction or stage management under the supervision of the faculty director.	
COM 406	3	Comm Field Exp II & Sr Seminar
Description:	The course is specifically designed for the senior communication student to gain greater insight as to how a specific field of communication may be best contextualized within a theory or principle of communication. COM 406 is designed to enable interaction with both supervisors and peers in order to garner constructive understanding in the field which will allow for feedback, heightens the 145-hour internship experience and places the overall effort in a position that contributes to a comprehensive communication senior seminar paper and artifacts for their professional portfolio. Internship hours run concurrently with the course and students must complete internship paperwork prior to enrolling. Communication Field Experience I and II must be with taken with different organizations. (Prerequisites: COM 305 and Instructor Permission)	
CYB 301	3	Cybersecurity Fundamentals
Description:	Cybersecurity Fundamentals introduces learners to the interdisciplinary field of cybersecurity. During the course, learners will review the evolution of information security into cybersecurity, and explores the relationship of cybersecurity to organizations and society. Learners will analyze topics such as vulnerability assessment, ethical hacking, malicious software (malware), virus attacks, spyware, network defense, passwords, firewalls, and intrusion detection. Current issues such as privacy concerns	

Course	Credits	Title
		and cyberbullying are also discussed. (prerequisites; CIS 105, CIS 218, CIS 224 and MATH 216 all with grade of C+ or higher)
CYB 320	3	Defense in Depth
Description:		Defense in depth is the coordinated use of multiple security countermeasures to protect an information technology (IT) enterprise. Students will study the concept of creating multiple layers of security controls as a defense throughout an IT environment to provide redundancy in the event security controls fail or vulnerabilities are exploited. The course will cover aspects of personnel, procedural, technical and physical security controls.
CYB 325	3	Vulnerability Assess & Testing
Description:		Cybersecurity professionals must be knowledgeable of the possible dangers to their systems. This course will review the common threats to computer networks and provide students with a basic understanding of how systems are attacked. Further, students will be introduced to industry standard and leading methodologies for vulnerability assessment as well as ethical hacking techniques used to simulate real-world attacks in order to assess security and demonstrate business risk. With this understanding of threats and attack techniques. Along with methodologies for technical security assessments, students will be positioned to evaluate network, system, and application security controls, identify and demonstrate security risks, and prioritize vulnerability remediation.
CYB 330	3	IT Security Governance
Description:		IT Security Governance is the process of establishing and maintaining a framework and supporting management structure and processes to provide assurance that IT security strategies are aligned with and support business objectives, are consistent with applicable laws and regulations through adherence to policies and internal controls, and provide assignment of responsibility, all in an effort to manage risk. The course will introduce students to the key components of IT security governance and review governance frameworks and approaches utilized by large enterprise organizations. Students will gain an understanding of the goals and structure of a security governance program and the key performance indicators used to measure program success.
CYB 340	3	Offensive Operations and OSINT
Description:		The course provides students with a background in Offensive Cybersecurity Operations and Open-Source Intelligence Collection. Students will use the latest tools, techniques, and procedures (TTPs) to succeed in exploiting vulnerabilities and evading modern antivirus systems. Students will identify an entity's public presence from an attacker's perspective including who within the organization would be a compelling target for an advanced persistent threat.
CYB 350	3	Open Source Intelligence
Description:		Prior to attacking a particular system or organization, hackers will gather intelligence on potential targets to understand its strengths and weaknesses. This course will instruct students how to utilize open-source intelligence (OSINT) methods on the deep and dark web, and techniques to improve the way they collect, collate and analyze open source information to generate intelligence. Students will learn how to develop target assessments which list potential vulnerabilities and can be utilized for penetration testing. (Prerequisite: CYB 325)
CYB 360	3	Digital Forensics
Description:		An introduction to the legal and technical knowledge required to gather and analyze information from computer systems. Recover methods will be demonstrated for intentional and accidental destruction of storage devices. Learners will also learn how to interpret the data gathered and how to maintain a legally sound chain of custody.
CYB 390	3	Cybersecurity Capstone
Description:		This class will guide the learner in the development of his or her capstone project. The capstone project is at least a 30-page proposal for a cybersecurity plan, a project for implementation at an actual

Course	Credits	Title
		organization. Learners are expected to utilize all of the skills and knowledge learned from previous classes. After they create and have approved a comprehensive project proposal, class sessions and assignments will progressively assist learners to research and develop their project This course will utilize web-conferencing, on-line discussion boards, research, and readings to assist learners in the development and creation of their project or proposal. Learners will work collaboratively with the facilitator and other learners. (Prerequisites: CYB 320, CYB 325, CYB 330, and CYB 350 all with grade C+ or higher)
ECO 200	1 TO 3	Special Topics in Economics
Description:		Current topics dealing with ongoing facets of economics.
ECO 201	3	Principles of Macroeconomics
Description:		A study of the overall economy with emphasis on inflation, unemployment, government policies and their effect on both long- and short-term economic growth.
ECO 202	3	Principles of Microeconomics
Description:		A study of the economic behavior of industries, firms, and individuals. It investigates the dynamics of the market system.
ECO 203	3	Principles of Economics
Description:		Focus on the core concepts of macro and micro economics which include the problem of scarcity, the comparison of the market system to mixed economies, the importance of the global economy, government policies, and income inequality.
ECO 307	3	Statistics
Description:		Fundamental concepts of descriptive and inferential statistics with business and economic applications: measures of central tendency and dispersion, techniques for data reduction and summarization, hypothesis testing, tests of significance, confidence intervals, correlation, regression, and variance analysis. Instruction integrates personal computer and software for business and economics. (Prerequisites: ECO 202 or 203; and Math 203, 207 or 217)
ECO 313	3	HON: Great Economic Debate
Description:		An examination of current topics in the U.S. economy. Debate topics include the economics of poverty and discrimination, and the economics of crime and prevention. (GPA of 3.5 required)
ECO 319	3	History of Economic Thought
Description:		A survey of the great economists and schools of influence on economic thought with a focus on the lives and ideas of the economics that shaped modern economics. (Prerequisites: ECO 201 and 202)
ECO 320	3	Comparative Economic Systems
Description:		Decision-making and practices employed in free market, socialist, command, and transition economies. Emphasis is placed on the economic problems of the former Eastern European and Soviet systems, emerging markets, and newly industrialized countries.
ECO 322	3	Economic Development
Description:		Study of the meaning, measures, issues, theories, and policies of economic development of the Third World.

Course	Credits	Title
ECO 323	3	Global Economics
Description:	Given the advancement in global economic integration in today's world, this course will analyze the cause and effect associated with global economic issues. The class will focus on current microeconomic and macroeconomic debates and public policy responses to these global economic concerns. Topics addressed will include international trade, economic development, labor markets, poverty and inequality, and population changes.	
ECO 327	3	Intermediate Microeconomics
Description:	A study of the microeconomic theory of a consumer behavior, decision-making of the firm, and how markets functions. Case studies of firms and market will allow for an examination of efficiency and market failures. (Prerequisites: ECO 202 or 203, MATH 203 and 204 or MATH 207 and 208)	
ECO 328	3	Intermediate Macroeconomics
Description:	An analysis of the classical theory of the economy in the long-run and the business cycle theory in the short-run. Basic macro models are used to describe economic problems and macroeconomic stabilization policies. (Prerequisites: ECO 201 or 203, MATH 203 and 204 or MATH 207 and 208)	
ECO 344	3	Business Analytics
Description:	Analytics and statistics are key for any decision maker. This course will introduce the descriptive and inferential statistics used by organizations. This course will integrate technology, such as Microsoft Excel, to explore statistical data analysis. Students will learn to think critically and apply creative techniques to solve problems.	
ECO 380	3	Current Issues in Economics
Description:	This course analyzes contemporary economic issues such as poverty and affluence, urban congestion, crime and crime prevention, race and gender discrimination, and environmental pollution. An evenly balanced presentation of the full range of economics will be presented as a foundation for understanding the economic circumstances which directly affect our lives.	
ECO 381	3	Global Economics
Description:	The course examines the U.S. in the global economy, with a focus on the interdependence of nations in the world economy. Topics include the global financial crisis, debt crisis, fiscal and monetary policies, income inequality, trade and protectionism. Specific case studies will be introduced to apply theoretical concepts. (Prerequisites: ECO 201 and 202, or 203)	
ECO 386	3	The Economics of Public Policy
Description:	This course explores the relationship between economic power and political influence. Emphasis is placed on understanding public policy actions taken by the US government and the resulting policy implications. (Prerequisites: ECO 201 and 202, or 203)	
ECO 387	3	Antitrust and Regulation
Description:	This course examines economic policy in the form of government regulation and antitrust. The course focuses on the market failures and potential excesses of market power that warrant government scrutiny and intervention. A discussion of emerging health, safety, and environmental regulations will be added to antitrust issues. (Prerequisites: ECO 201 and 202, or 203)	
ECO 389	3	The Economics of Law
Description:	This course provides an introduction into the economic analysis of law and its effect on social welfare. Areas of focus include evaluating the legal rules and impact of property rights, contractual arrangements, tort, and intellectual property. (Prerequisites: ECO 201 and 202, or 203)	

Course	Credits	Title
EDU 095	0	Basic Skills Requirement
Description:	Course indicates formal acceptance into Education major through fulfillment of PDE Basic Skills requirements.	
EDU 200	0 TO 3	Topics in Education
Description:	Selected topics to enrich the understanding of a variety of educational issues.	
EDU 201	0	Sophomore I Field Experience
Description:	Students participate in 40 hours of observations in varied schools and grade levels.	
EDU 202	0	Sophomore II Field Experience
Description:	Students participate in a 40-hour field experience in an urban setting.	
EDU 203	0	Junior I Field Experience
Description:	Students participate in a 40-hour field experience with initial teaching and managing responsibilities.	
EDU 204	0	Junior II Pre Student Teaching
Description:	Students participate in a 70-hour pre-student teaching experience usually in the same classroom in which they will complete their student teaching. Students are responsible for their own transportation.	
EDU 206	3	AOP Boot Camp
Description:	This course is designed as an orientation to the AOP residency program. Topics covered include the philosophy of Catholic education, qualities of a good teacher, classroom management, communication strategies, professionalism, curriculum, reading instruction and teaching effectiveness.	
EDU 290	3	Multicultural Education
Description:	An exploration of global educational systems (focus on non-western). Students will investigate the impact of culture on children's cognitive and social growth. Includes an overview of English Language Learning (ELL) issues and instructional strategies. A 40-hour field experience is required (EDU 202).	
EDU 291	3	HON: Schools and Society
Description:	Exploration of the issues related to diversity in society and in education through the lens of a critical social justice framework. Students will explore the perspective that recognizes that society is stratified by race, class, gender, sexual orientation, and ability and that inequality is deeply embedded in our society. Students are introduced to key concepts such as critical thinking, socialization, group identity, prejudice, discrimination, oppression, power and privilege in order to gain new insights, and seek means to positively impact these issues in society and in schools. Students are encouraged to connect their personal experiences to course materials. The format for this course is modeled on the constructivist approach in which students are encouraged to construct their own knowledge through active involvement, critical thinking, key experiences, readings, and assignments.	
EDU 302	3	Education Psychology
Description:	A problem-solving approach to the study of human development as it relates to the learning environment, including: student development, learning styles, and exceptionalities; major learning theories in relationship to the instruction of all students; as well as assessment and management techniques. A 40-hour field experience is required (EDU 201).	
EDU 310	3	Orientation to Teaching
Description:	This course introduces pre-service teachers (Pre-K through high school) to appropriate and relevant pedagogy, learning activities, and resources. Topics include: Effective teaching strategies applicable to all content areas, reflective decision making, issues of professionalism, student diversity, lesson	

Course	Credits	Title
		planning, classroom management and practical applications of these concepts. A 40-hour field experience is required.
EDU 317	3	WI: Language Arts Methods
Description:		Introduction to the reading/writing connection in the teaching of language arts to the PreK-4 child, including: types of writing, quality of writing, and speaking and listening as well as characteristics and functions of the English language.
EDU 318	3	WI: Social Studies Methods
Description:		Introduces pre-service, PreK-4 teachers to curriculum and instructional methods used by professional, elementary level, social studies educators. Students are exposed to the social studies curriculum as it relates to learning and development, differences in learning styles, critical thinking, problem solving, active learning, and inquiry. Areas of focus to be explored include effective teaching strategies and appropriate/relevant pedagogy applicable to the social studies content areas (geography, history, economics, and civics/government) based on standards identified by Pennsylvania Department of Education and the National Council for the Social Studies.
EDU 319	3	Mathematics Methods
Description:		Address mathematics instruction consistent with the developmental needs of the PreK-4 student within the framework of helping to build children's beliefs about mathematics, what it means to know and apply mathematics, and establishing children as mathematical learners.
EDU 320	3	WI:Science & Technology Methods
Description:		This course is designed to introduce pre-service PreK-4 teachers to methods and materials for teaching science. The course emphasizes problem solving, reasoning, communication, scientific inquiry, and the use of concrete materials to investigate scientific concepts. . Students will develop curriculum materials containing both Five E's lessons and activities which demonstrate an understanding of the national and Pennsylvania state standards for science.
EDU 328	12	Student Teaching: Secondary
Description:		Full-time supervised student teaching for students seeking Secondary Education Certification will student teach for a minimum of 14 weeks in a secondary school directed by a qualified supervising teacher. The course includes a weekly seminar conducted by members of the University staff. Through lectures and discussions led by local school personnel, the prospective teachers are given the opportunity to become familiar with their professional responsibilities and benefits. Current trends in curricula and best practices are considered and explained. A fee is charged and students must apply for student teaching and be approved by the Division.
EDU 330	3	Reading in the Content Area
Description:		An examination of instructional strategies that relate to reading in middle and secondary school content areas. The course will provide an overview of the developmental reading process, with methods for promoting student learning and thinking with reading materials.
EDU 331	3	Creative Thought & Expression
Description:		An examination of the current state and national standards governing music, art, drama, and physical education for the elementary classroom. Resources for these curriculum areas will be studied and evaluated. Student preparation and presentation of integrated units of study for these areas will also be developed.
EDU 338	3	Children's Literature
Description:		Introduces pre-service teachers to various types of juvenile literature including drama. The course encourages extensive reading on selected levels and provides the opportunity for pre-service teachers to examine the integration of literature across the curriculum. There is a focus on the development,

Course	Credits	Title
		implementation, and modification of the reading curriculum through the lens of authentic fiction and non-fiction reading material. Additional focus on the application of literacy strategies as applied to examples found in literature written for children in grades PreK-4 as well as for students seeking grades 4-8 certification.
EDU 345	3	Fundamentals of Reading Instr
Description:		Focus on research-based reading instruction with emphasis on language and literacy. Relevant national standards from the International Reading Association (IRA) and the National Association for the Education of Young Children (NAEYC) will be examined as a basis for developing meaningful literacy experiences for students in PreK-4.
EDU 348	12	Student Teaching: Elementary
Description:		Full-time supervised student teaching for students seeking PreK-4, Special Education PreK-8 (with PreK-4), or Grades 4 to 8 certification with a concentration in English, Science, Social Studies or Math, will student teach for a minimum of 14 weeks in an elementary school directed by a qualified supervising teacher. The course includes a weekly seminar conducted by members of the University staff. Through lectures and discussions led by local school personnel, the prospective teachers are given the opportunity to become familiar with their professional responsibilities and benefits. Current trends in curricula and best practices are considered and explained. A fee is charged and students must apply for student teaching and be approved by the Division.
EDU 352	3	Differentiated Reading Instruc
Description:		Focus on the manner in which reading instruction can be designed to meet the individual needs of students. Understanding of assessment measures/ instruments specific to literacy will be stressed. Knowledge of formal and informal reading assessments will be developed. Focus will be on students in PreK-4 classroom settings.
EDU 355	3	Educational Testing
Description:		Introduction to the concepts, theories, and methods regarding educational and psychological testing. Students will learn about standardized tests and other diagnostic tools frequently encountered and/or used by classroom teachers, guidance counselors and/or school psychologists. Psychometric principles (e.g., validity and reliability), test construction, test and item analysis, and applications of testing in a variety of settings will be explored.
EDU 365	3	Early Childhood
Description:		Focus on the field of early childhood education with an emphasis on creating an environment conducive to early learning with a reference to major early childhood models. This includes developing an understanding of the social, intellectual, creative and physical development of young children and the importance of working with parents in the educational process. Readiness skills and concepts in all curricular areas are addressed
EDU 366	3	Technology in Education
Description:		Instructional (sometimes called educational) technology is becoming an increasingly important part of K-12 education. The course will take a look at SMARTboard, other Interactive White Boards (IWBs), Web 2.0 Tools, and iPads vs. Androids. There will be discussions and explorations of Web 2.0 tools, which will enhance the curriculum within the classroom. We will examine Interactive White Boards and how they impact the classroom and differentiation. Finally, the course will focus on professional development and where to learn about new technology as it becomes available.
EDU 381	3	Intro to Special Education
Description:		Survey course introducing the general categories and identification of children with disabilities as per the Individuals with Disabilities Education Improvement Act. It also introduces the process of special education at the federal and state (PA) levels including the legal rights, components, and implications for these persons. Factors that promote effective communication and collaboration among all school

Course	Credits	Title
		personnel, families, students, and other community members are included.
EDU 384	3	Adapting Instruction
Description:		This course includes introductory level instructional adaptations and accommodations for all school-age students who are academically and functionally at-risk for learning and/or for students identified as needing special education. It covers universally designed instructional techniques in a standards aligned system within the least restrictive environment, primarily in inclusive school settings. Reviews of general assessments and data collection processes, along with progress monitoring techniques, are incorporated within the instructional components. Responses to intervention models are utilized to allow for appropriate educational decision-making for these diverse learners. (Prerequisite: EDU 381). A 70-hour field experience is required, which should be in an inclusive setting (EDU 204).
ENG 106	3	Composition I
Description:		Introduction to academic writing with emphasis on using language clearly and correctly. This course develops and reinforces skills needed for proficient academic writing.
ENG 107	3	Composition II
Description:		Introduction to research techniques with continued emphasis on academic writing techniques developed in ENG 106. (Prerequisite: ENG 106)
ENG 117	3	HON: English Comp & Rhetoric
Description:		Concentration on developing critical reading, thinking, and writing skills. Students will research and respond to a variety of topics using both argumentative and expository compositional styles. The course also provides an opportunity for students to achieve high proficiency in academic research methods.
ENG 122	3	Introduction to Literature
Description:		An introduction to short stories, poetry, and drama as literary genres with an emphasis on techniques of literary analysis and appreciation.
ENG 150	1 TO 3	Special Topics in Literature
Description:		Varied approaches to specific authors, themes, literary genres, and writing styles.
ENG 216	3	WI: World Literature
Description:		An introduction to the literature of many cultures. Students write response papers that explicate and analyze diverse literary works. They also research and compose a critical essay that explores the works of two writers, one from the traditional canon, one from outside the traditional canon.
ENG 234	3	WI: The American Short Story
Description:		Make it interesting and it will be true. Story-telling in America has a long and engaging history tied to the evolution of national identity, the growth of the magazine industry, and the proving ground for major literary movements and styles. This course looks to explore as much of that rich history, (as chronologically and diversely as possible), while touching on both well-recognized and underappreciated purveyors of the genre.
ENG 241	3	Principles & Practice of Rsrch
Description:		Fundamental grounding in research methodology focusing on theoretical understanding and practical application of the research process. (Offered only in the accelerated format)
ENG 242	3	Writing for Applied Research
Description:		Theoretical principles and practical application of the academic research process with a focus on

Course	Credits	Title
		business. Students learn to form initial inquiry questions; locate and evaluate print and electronic sources; and summarize, paraphrase, and incorporate source material in written presentations using the APA citation format. (Offered only in the accelerated format)
ENG 260	3	Literary Analysis & Research
Description:		An introduction to methods of research required for literary studies with emphasis on the most useful print and electronic secondary sources.
ENG 261	3	WI: Major American Fiction
Description:		An exploration of the American Dream and how it is portrayed, glamorized, and deconstructed in early to late 20th century American fiction. The exploration is multicultural and acquaints students with the leading domestic literary figures of the last eighty years.
ENG 262	3	WI: 20th Cntry British Authors
Description:		An examination of the major trends in 20th century British poetry and fiction from World War I to the present. Critical approaches and written analysis form part of the course.
ENG 263	3	WI: Modern Drama
Description:		A study of selected texts in English and American drama from mid-nineteenth century to the present. The course includes readings in dramatic criticism.
ENG 264	3	WI: Modern Poetry
Description:		A study of major twentieth-century poets and literary movements in England and America and Modernism's complicated relationship with its literary predecessors.
ENG 265	3	WI: Modern Women Writers
Description:		An exploration of the energies, purposes, attitudes, and literary contributions of modern and contemporary women writers.
ENG 266	3	WI: Modern Women Writers: Pt 2
Description:		A study of the work of women writers of mid- and late twentieth century. While ENG 265 is not a prerequisite for this course, its background provides a helpful framework for this sequel.
ENG 267	3	WI: African American Lit I
Description:		Exploration of the writings of African-Americans from 17th-19th centuries in a cultural, historical, and literary context. The genres of captivity narrative, autobiography, and short story are examined with focus on their contribution to the canon of American literature as well as their unique African-American characteristics.
ENG 268	3	WI: African American Lit II
Description:		What lies ahead? Focus on African-American literary tropes after Reconstruction, through the Harlem Renaissance, into the Civil Rights movement, and to the present. This course explores how race as a social construct and literary identity has been articulated and altered through the 20th century, and considers what lies ahead.
ENG 271	3	Strats for Teaching English
Description:		An introduction to the strategies of teaching English. Students will learn methods for teaching the structure, grammar, style, research, and media of English. The study of rhetorical theory, composition theory, and literacy theory and the investigation of writing in the disciplines will help students gain

Course	Credits	Title
		insight for particular student audiences when teaching English.
ENG 272	3	WI: Young Adult Literature
Description:		An exploration of the historical context, various reading strategies and contemporary critical theories of the Adolescent/Young Adult (YA) literature available for study on middle and secondary school levels. The cross section of works examined will enable discussions of multiculturalism, globalism, diverse audiences and subject matter.
ENG 275	0 TO 3	WI: Special Topics
Description:		Varied approaches to authors, themes, and literary genres.
ENG 299	3	Advanced Composition
Description:		A further reinforcement of the strategies of rhetoric and style introduced in freshman writing courses. Students learn writing by investigating theories of writing, particularly argumentation.
ENG 300	3	Honors English Special Topics
Description:		This course will cover various topics and count as an honors program elective.
ENG 301	3	Honors Advanced Composition
Description:		A further reinforcement of the strategies of rhetoric and style introduced in freshman honors writing courses. Students learn writing by investigating theories of writing, particularly argumentation.
ENG 314	3	WI:Film Adaptations Literature
Description:		An exposition of good literature and good films made from this literature as a means of learning to appreciate the value of both methods of presenting great stories and ideas. Students form a critical apparatus that allows perceptive judgments of both genres.
ENG 321	3	Literary Theory
Description:		An introduction to literary theory and analysis. This course explores the development of literary theory, the variety of approaches that open up literary works, and the influence of cultural diversity on the varied theories. Students explore, evaluate, and discover their own preferences as literary critics.
ENG 329	3	WI: Ancient&Medieval World Lit
Description:		A study of representative works of ancient and medieval world literature (in translation) with a concentration on myth, epic, and drama.
ENG 330	3	HON: Twisted Sisters: Brontes
Description:		The many modern and contemporary versions of Jane Eyre and Wuthering Heights testify to the endurance and significance of the novels. Students will examine some of the adaptations, such as Wide Sargasso Sea by Jean Rhys (a prequel to Jane Eyre), Rebecca by Daphne du Maurier, Jane Slayre by Charlotte Brontë and Sheri Browning Erwin (a mash-up of Jane Eyre), Jane Steele by Lyndsay Faye, and Re Jane by Patricia Park—all of which reimagine Jane Eyre—and Heathcliff: Vampire of Wuthering Heights by Emily Brontë and Amanda Paris (a mash-up of Wuthering Heights), Here on Earth by Alice Hoffman, Solsbury Hill by Susan M. Wyler, and Abide with Me by Sabin Willett—all of which reinvent Wuthering Heights. Students will consider, not just how and why the authors recreate the Brontë novels, but also the ways in which the adaptations shed light on the original works.
ENG 337	3	History of English Language
Description:		An introduction to the development of modern English, with historical background providing proper

Course	Credits	Title
		perspective for examination of current linguistic trends.
ENG 338	3	Linguistics: Intro Readings
Description:		A study of linguistic systems and related topics including language acquisition and comprehension, brain theory, language bias, and non-verbal communication.
ENG 340	3	WI: Chaucer
Description:		A study of Chaucer's major works, with special emphasis on The Canterbury Tales.
ENG 341	3	English Literature to 1500
Description:		A study of early English works with emphasis on Old English poetry, the evolution of Arthurian literature, medieval romances, and the development of drama.
ENG 342	3	WI: Renaissance Literature
Description:		An introduction to representative works of English literature of the 16th and 17th centuries, exclusive of Shakespearean drama.
ENG 343	3	WI: Shakespeare
Description:		A concentrated study of selected major comedies, histories, and tragedies with an introduction to Shakespearean criticism.
ENG 344	3	WI: Restoration & 18th Cent Lit
Description:		An introduction to the major literary movements in England from representative works in English literature 1660-1775, with emphasis on Dryden, Pope, Swift, and the development of the periodical essay and the novel.
ENG 346	3	WI: Romantic Literature
Description:		A study of Blake, Wordsworth, Coleridge, Shelley, Keats, Byron, with additional focus on contemporary essayists and writers of Gothic fiction.
ENG 348	3	WI: Victorian Literature
Description:		A study of the major poets and prose writers of nineteenth century Britain, including selected works of Carlyle, Arnold, Tennyson, Browning, Dante and Christina Rossetti, and Hopkins.
ENG 349	3	WI: Irish Literature
Description:		An introduction to selected works in of classical and contemporary writers; course fulfills a requirement for the minor in Irish Studies.
ENG 350	3	WI: Major American Writers I
Description:		A study of major American writers with concentration on Emerson, Thoreau, Poe, Hawthorne, and Melville.
ENG 351	3	WI: Major American Writers II
Description:		A study of major American writers with concentration on Whitman, Dickinson, Twain, James, Eliot, Hemingway, Faulkner, and Frost.

Course	Credits	Title
ENG 353	3	WI: Major American Writers III
Description:	A study of major American writers from the late 20th century and contemporary literature.	
ENG 355	3	HON: Tolkien Political Thinker
Description:	An exploration of JRR Tolkien's <i>The Lord of the Rings</i> and other writings both as literature and as political thought. Contemporary interpretations of Tolkien's work will also be critiqued, and special consideration will be given to the political teachings within <i>The Lord of the Rings</i> .	
ENG 365	3	WI: Postcolonial Literature
Description:	A study of the literature of nations that have experienced and/or are reacting to some type of colonization. The course examines recurrent themes, such as identity, power, migration, race, gender, nation, representation, containment, and resistance.	
ENG 367	3	WI: Postmodernism
Description:	This course engages literature in a state of entropic disillusionment over World War II, which reacts against anything resembling traditional ideals. The representative literature and social commentary is a complex, ironic, fragmented, inter-referential, parodic, non-traditional, and distrustful amalgam.	
ENG 368	3	WI: Irish Drama
Description:	An examination of the themes and structures of drama from Brian Friel to contemporary authors, including Sebastian Barry, Marina Carr and Martin McDonagh.	
ENG 400	3	English Seminar
Description:	Independent research and seminar discussion on a literary theme chosen by the instructor. Work in progress and results of research are presented orally to the seminar; final papers are submitted to instructor. (Prerequisites: ENG 260 and ENG 321, or departmental permission)	
ENG 401	1 TO 3	Independent Study
Description:	Research in a theme, genre, period, literary group or single author, or advanced writing in a specific mode. (Agreed upon by the student and instructor with permission of the department)	
EPM 205	1 TO 3	Disaster Response Field Exp
Description:	This cross-disciplinary field experience is designed to provide students with a hands-on practice in disaster response. Assigned to small teams, students are exposed to various aspects of disaster response through a realistic exercise. Throughout the three days, participants receive blocks of training (e.g., search & rescue, incident command, and first aid), and then apply the skills they learn on different training lanes. To facilitate learning, teams conduct after-action reviews, and students receive coaching at several times during the exercise.	
EPM 301	3	Principles of Emergency Mgmt
Description:	This introductory course provides the scope, objectives, and principles of emergency management; preparedness, including prevention, protection, mitigation, response, and recovery strategies as well as roles of federal, state and local emergency management agencies, and private agencies. Learners will also be able to explain how various emergency management services work together in a system of resources and capabilities.	
EPM 303	3	Emergency Management Systems
Description:	Examination of the emergency management practices used during an emergency situation by responders, particularly the structure and responsibilities of the Incident Command System (ICS), the management of facilities and resource identification. National Incident Management System (NIMS) principles are also discussed and applied.	

Course	Credits	Title
EPM 310	3	Risk Analysis & Threat Assess
Description:	This course prepares emergency response managers to conduct a comprehensive, capabilities-based threat and risk assessment for terrorism/all-hazards incidents under the National Response Framework (NRF) and National Preparedness Guidelines. Learners will identify shortfalls, perform gap analysis and develop a needs assessment to fill shortfalls/gaps identified within the preparedness cycle.	
EPM 312	3	Public Sector Acctng & Finance
Description:	Introduction to the general principles of accounting and budgets specific to emergency management, including an overview of fiscal issues related primarily to the public sector in emergency services, specifically public funding sources, spending, budgeting/allocations, risk management, and grant writing. The fundamentals of financial planning, cost concepts, capital budgeting and management analysis are applied in the public and private sectors. Issues surrounding the development and management of budgets are also examined.	
EPM 315	3	Legal Aspects Emergency Mgmt
Description:	An overview of the major legal and liability issues in emergency management. The focus is on the legal environment within which emergency managers operate, including their roles in rule-making, policy administration, contract law and their potential personal legal liability for discretionary actions.	
EPM 320	3	Mitigation and Preparedness
Description:	Hazard mitigation reduces loss of life and property by minimizing the impact of disasters and helps break the cycle of disaster damage and reconstruction. Mitigation efforts can contribute to a community's preparedness, which is a state of readiness to respond to disasters or other emergency situations. This course will introduce the major principles involved with emergency preparedness, including mitigating the impact of hazards in the context of emergency / disaster management.	
EPM 325	3	Response and Recovery
Description:	This course provides a basic overview of disaster response and recovery, focusing on methods to manage and minimize the consequences of disasters (natural, man-made, and technical). The components of response and recovery are reviewed in the context of strategies that organizations, particularly governmental bodies, and communities can utilize to respond to and recover emergency situations.	
EPM 350	3	Humn Dimensn Comm Pln Dstr Mgt
Description:	This course prepares emergency managers to consider the human dimensions of disaster, and to operate effectively with the public and media concerning a variety of threats to community wellbeing. Students will understand and learn to develop strategies for community-based planning, communicating and negotiating with the public, and managing conflict.	
EPM 360	3	Emergency Operations Planning
Description:	The course examines the fundamentals of the emergency operations planning process, including the art and science of planning. The focus is on developing effective all-hazard emergency operations plans that save lives and protect property threatened by disaster. The course considers the spectrum of emergency planning and explores processes used to develop strategic plans. Upon completion of the course, students will have a broad knowledge of many aspects of emergency operations planning.	
EPM 372	3	Curr Issues Ntn'l Preparedness
Description:	This seminar course will explore contemporary issues and topics in homeland security, disaster preparedness, and emergency management. Due to the complexity and coupling of modern society, strategic factors such as globalization, climate change, and technological interconnection have an impact on risk and resilience at the community level. Throughout the course, students will guide their own group discussions, utilize various media to report on important topics, and engage with subject matter experts.	

Course	Credits	Title
EPM 390	3	Capstone: Emerg Planning &Mgmt
Description:	The culminating academic experience for emergency management students draws on the foundational knowledge from earlier courses in research, risk analysis, law, and budgeting while focusing on the art and science of planning to produce a comprehensive emergency management plan. (Prerequisites: EPM 301, 303, 310, 312, 315, 350)	
EPM 401	1 TO 3	Independent Study and Research
Description:	This course is designed to provide a student who has completed more than half of the courses in the major, with a mentored opportunity to engage in independent study and research in a specific aspect of emergency management. (By prior arrangement with the program director; enrollment is limited; Pre-/co-requisites: ENG 242, ORBH 315, 325, 3.0 GPA in the major)	
EPM 405	1 TO 3	Professional Internship
Description:	EPM 301, EPM 303, and EPM 310 (9 credits) and hold a 3.0 GPA in the major. A professional field experience in the application of emergency management and planning skills. Students can apply for positions that will provide hands-on field experience to enhance their career readiness and receive credits through a structured learning experience. (By prior arrangement with the program director; enrollment is limited; Pre-requisites: EPM 301, 303, 310, 3.0 GPA in the major)	
EPOL 400	0 TO 100	Law School: Elective credits
ESL 215	3	Advanced Oral English
Description:	Vocabulary development and emphasis on idiomatic use of spoken English. Improvement of pronunciation through class work and recordings prepared by students. Appropriate written exercises.	
ESL 220	3	Adv Written & Oral English
Description:	Exercises aimed at developing facility in written and spoken English. Grammar review. Vocabulary development.	
ESL 221	3	Critical Reading
Description:	Exploration, intensive study, and critical analysis of notable works in English. Emphasis on style, structure, and meaning of each work.	
EXS 101	2	Personal Fitness and Wellness
Description:	Addresses students' lifestyles, attitudes, and behaviors as they relate to personal fitness and wellness. A combination of lecture and activity sessions empowers the students to develop personal strategies that will enable them to achieve positive lifestyle practices.	
EXS 102	2	Amer Heart Assoc Emerg Resp
Description:	This course provides the knowledge and skills necessary to work as a first responder in an emergency to help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until more advanced medical help can arrive. This course prepares students for the American Red Cross CPR/AED for the Professional Rescuer and American Red Cross Emergency Response examinations.	
EXS 103	2	What Every Woman Needs to Know
Description:	Examines the various health issues that affect women today. These issues will be critically examined in the context of history, gender, socio-economic status, ethnicity, and recent medical research.	
EXS 104	2	Men's Health Issues
Description:	Examines the various health issues that confront men during each of life's stages. Emphasis will be	

Course	Credits	Title
		placed on the benefits of a positive healthy lifestyle as it relates to a variety of men's health concerns.
EXS 105	2	Consumer Issues Fit & Wellness
Description:		A variety of consumer issues relating to fitness, wellness, and health will be examined. Topics will include quackery and fraud in health and fitness, consumer product safety, environmental health issues, and other current issues.
EXS 106	2	Group Fitness Instruction
Description:		Students will learn the various methods and techniques for teaching group fitness classes in cardiovascular and strength training.
EXS 107	2	Amer Red Cross Lifeguard Trng
Description:		This course provides the knowledge and skills needed to prevent and respond to aquatic emergencies. Students will be able to recognize and respond quickly and effectively to emergencies and prevent drowning and injuries. This course prepares students for the American Red Cross Lifeguarding and CPR for Lifeguards examinations.
EXS 200	1 TO 3	Special Topics in Exercise Sci
Description:		Selected topics in exercise science, fitness, and wellness. Topics will rotate based on student and faculty interest. (Does not meet a liberal arts core requirement.)
EXS 201	3	Intro to Exercise Sci&Fitness
Description:		An introduction to the concepts, theories, principles, and concerns associated with exercise science and fitness. Required for all exercise science majors.
EXS 202	3	Current Trends:Sport & Fitness
Description:		With the continuance of research in the exercise science area, this course examines the current trends and findings in sports and fitness as it relates particularly to injury and illnesses as well as the promotion of health education through individual and community education.
EXS 204	1	Exploring Health Professions
Description:		This course will explore various aspects of the health professions, including but not limited to appropriate professional development, resume writing and career development, networking skills, and professional expectations. The course will include a speaker series of professionals in the fields of allied health (PA, PT, OT), exercise science, and public health. Students will be expected to complete professional development hours related to work experience, certifications, or participation in professional or student organizations related to their future career choice.
EXS 205	2	Health Coaching
Description:		Students will learn and practice the main principles and techniques of health coaching. These include, but are not limited to, assessing motivation, asking open ended questions, reflective listening, and goal setting. They will receive instructor and peer feedback on practice sessions. They will be given the opportunity to be a Peer Health Coach after passing the course with a B or higher.
EXS 210	3	Physcn Asst Patient Experience
Description:		Students in this course will examine their experience in professional health care settings related to the various specialties within the physician assistant field. In addition, students will be coached on professional preparation in anticipation of applying for their graduate study. Special topics related to patient communication, education and healthcare administration will also be covered to introduce students to the scope of practice as a physician assistant.

Course	Credits	Title
EXS 230	3	African Dance
Description:	West African secular and sacred dance forms will be examined, with attention given to the religious, cultural, and social histories in which these dances developed and to the ways in which dance expresses the cultural norms and aspirations of a people. Studies will also include the critical impact that African dance has made on dance in the United States, from the Charleston to Elvis to Alvin Ailey American Dance Theater.	
EXS 231	3	Principles Coaching/Leadership
Description:	This course will concentrate on the principles, techniques, and responsibilities involved in coaching competitive athletics. Course content will include coaching philosophies, athlete safety, sport psychology, evaluative techniques, and team/league administration.	
EXS 300	3	HON: Special Topics
Description:	This designation is for courses offered as electives in the Undergraduate Honors Program, and may include both Honors-only courses and augmented Honors versions of courses that are offered elsewhere in the catalog. Courses have limited enrollment and content reflects Honors Program course outcomes around rigorous critical engagement, interdisciplinarity, effective communication, and meaningful collaboration.	
EXS 301	3	WI: Prevent&Care Ath Injuries
Description:	The study of prevention and treatment of athletic injuries and first aid techniques. Emphasis is on the integration of the classroom study to the practical application of treating injuries in their initial phases.	
EXS 302	3	Kinesiology
Description:	Examination of the human body with regard to how movement is created and maintained. Emphasis is on the anatomical basis of human motion with focus on the skeletal, neural, and muscular systems. (Pre- or co-requisite BIOL 209-210 or BIOL202 or BIOL 207 or with permission of the department)	
EXS 303	3	Exercise & Sport Physiology
Description:	Exploration of a wide variety of subject matter that focuses on enhancing athletic and training accomplishments. Emphasis is on the description of relevant physiological techniques proven to augment readiness and improve performance in exercise and sport settings. (Prerequisite BIOL 209-210 or BIOL202 or with permission of the department)	
EXS 304	3	Exercise Assessment & Program
Description:	Examination and study of the techniques, procedures, and practical laboratory experience in aerobic strength, flexibility, blood pressure, and related measurements. (Prerequisite: EXS 302)	
EXS 305	3	Biomechanics
Description:	Study of the structural and functional applications of movement related to the physical constraints on body support and movement. Topics include walking, running, jumping, throwing and swimming movement analysis. (Prerequisite BIOL 209-210 or BIOL202 and EXS 302 or with permission of the department)	
EXS 306	3	Sports Facility & Event Mgmt
Description:	Provides the necessary background and foundation needed to plan, organize, and administer various athletic and/or special events in sports or other related activities.	
EXS 307	3	Sports Administration
Description:	Examination of the administrative tasks and policies/procedures necessary for sports managers in the operation of programs. Included is the development of organizational skills and human resource management, issues regarding risk management and liability, and the development of media	

Course	Credits	Title
		relationships.
EXS 309	3	Personal Training Cert Prep
Description:	This course enhances student knowledge in the areas of health and fitness. Focus is on assessment of fitness, motivation techniques, goal setting and design of individual fitness and wellness training programs. This course prepares students to take personal training certification examinations.	
EXS 310	3	Practicum
Description:	The practicum course requires direct participation in experiences with sport, fitness, recreation and/or physical and occupational therapy facilities to develop and understand the theories and information presented in the classroom and apply them to a real world setting. Weekly seminar meetings help students integrate their knowledge and experiences and offer students a wide range of professional development topics. (Exercise Science majors and minors only)	
EXS 313	0 OR 3	Eval Methods Injury & Illness
Description:	Introduction to procedures and tests used to examine illness and injuries of the extremities, head, and trunk regions. Students will be able to identify risk factors for musculoskeletal injuries and illnesses and be instructed in theory and proper techniques for diagnostic and special tests, including neurological, strength, and range of motion assessment. (Prerequisites: BIOL 209, 210)	
EXS 403	3	Senior Sem/Research Methods
Description:	Incorporation of the fundamental concepts of research methodology by research design and problem selection, literature review, statistical analysis and presentation of data in the area of Exercise Science and related fields.	
EXS 404	3	WI: DPT/EMOT Seminar
Description:	This course is designed for students in the DPT/EMOT affiliation programs at Thomas Jefferson University. In this course students will develop the fundamental concepts of research methodology, integrate exercise science concepts into the practice of physical or occupational therapy.	
EXS 405	3	Strength & Condition Spec Prep
Description:	Designed to enhance student knowledge in the areas of improving athletic performance, including sport-specific testing and the design and implementation of strength and conditioning programs. Preparation for taking the National Strength and Conditioning Association's Certified Strength and Conditioning Specialist Examination. (Prerequisites: BIOL 209-210 or BIOL 202, EXS 302, or permission of the instructor, senior status)	
EXS 406	3	Professional Prep for Hlth Sci
Description:	This course is designed to continue the work students began in EXS200: Exploring Health Professions. Students will finalize their resume, join a professional organization related to their career choice, and choose a professional certification they will obtain upon graduation. The course will review common content related to all exercise science certifications and serve as test preparation for those that choose to obtain a certification. Topics related to career management in movement science will also be explored.	
EXS 407	3	Research Methods I
Description:	This course is designed to incorporate the fundamental concepts of research by introducing the students to research design, problem selection, review of literature, and research methodology. Students will develop their own research question for intensive study and proceed through the various steps of the research proposal process. Collection of data and formal presentation will be concluded in the second half of the research methods course. (Co-/Prerequisite: PSY 208; Senior status)	

Course	Credits	Title
EXS 408	3	Research Methods II
Description:	Students will continue the research process stated in the previous semester through the collection and interpretation of data, discussion of results, and development of conclusions. The culminating research will be presented at departmental and university symposiums. This course will also focus on current issues in health and wellness while critically reflecting on published research. (Prerequisites: PSY 208, EXS 407, Senior status)	
EXS 410	3	Exercise Science Study Abroad
Description:	Emphasis on the study of selected sport programs, sport facilities, education programs, and clinical exercise settings outside of the United States. Through travel and lecture, this course builds an appreciation of sport and exercise culture in other countries and the affect globalization has on sport and exercise culture internationally.	
FCS 200	1 TO 3	Focused Study of FCS Topics
Description:	Focused study of a family consumer sciences topic of current interest.	
FIN 200	1 TO 3	Special Topics in Finance
Description:	Current topics which deal with on-going facets of finance.	
FIN 306	3	Money and Banking
Description:	Basic principles of money and banking in a credit economy; organization and structure of financial systems in the United States; recent developments in monetary and banking policy; proposals for financial reform. (Prerequisite: ECO 201 or 203)	
FIN 310	3	Insurance and Risk Management
Description:	This course addresses the importance of planning for insurance needs and covers the basic concepts in risk management and insurance. Topics include health and disability insurance, life insurance and annuities, long-term care, property and casualty insurance. Pre-requisite: FIN 367	
FIN 311	3	Internatn'l Financial Markets
FIN 320	3	Retirement Planning
Description:	This course focuses on retirement savings and income planning for individuals and businesses. Topics include retirement needs analysis, Social Security and Medicare, types of retirement plans, qualified plan rules and options, key factors affecting plan selection for businesses, distribution rules and strategies, and business succession planning. Pre-requisite: FIN 367	
FIN 325	3	Securities Analysis
Description:	This course discusses the characteristics, uses, and taxation of investment vehicles. Also addressed are the types of investment risk, calculating investment returns, asset allocation and portfolio diversification, and portfolio development and investment strategies. Prerequisite: FIN 362	
FIN 326	3	Advanced Investment Analysis
Description:	This course provides a deeper understanding of subjects covered in FIN 325 Investments. Emphasis is given to derivative investments and security analysis. Mutual Funds are examined as investment vehicles. Portfolio management and risk management are explored. Case studies are analyzed in the context of theory. (Prerequisite: FIN 325)	

Course	Credits	Title
FIN 350	3	Fundamentals of Estate Planning
Description:	This course provides an overview of the gift and estate tax system and basic estate planning strategies. Topics include characteristics of property titling and strategies to transfer property, critical estate planning documents, gift and estate tax calculations, sources for estate liquidity, types and features of trusts, and estate planning for nontraditional relationships. (Prerequisite: FIN 367)	
FIN 360	3	Financial Planning Capstone
Description:	This capstone course applies the knowledge gleaned during the program in the areas of risk, tax, retirement, investment, and estate financial planning through the use of case study analysis. Prerequisite: FIN 367	
FIN 362	3	Introduction to Finance
Description:	Introduction to financial decision-making: institutions, markets, essential concepts, analysis, planning, strategies, and methods. (Prerequisites: ACC 201 or 203-204 or ACC 205 & 206; MATH 203, 207 or 217 may be taken concurrently)	
FIN 363	3	International Finance
Description:	A look at the global financial marketplace, focusing on the foreign exchange market and the balance of payments. Examination of the political, legal, and economic variables that determine the exchange rate. (Prerequisites: ECO 203 or ECO 201 and 202; FIN 362)	
FIN 365	3	Securities Industry Essentials
Description:	This course provides the basic securities industry concepts necessary to master the SIE Exam, an introductory-level FINRA exam, and prep for the Series Exams. The course is broken into four principle sections: knowledge of capital markets; understanding products and their risks; understanding trading, customer accounts and prohibited activities; and an overview of the regulatory framework. All areas addressed in the course are fundamental to careers in investment banking, wealth management, and securities sales and trading. Pre-requisite: FIN 362	
FIN 367	3	Fndmntls of Financial Planning
Description:	This course provides an overview of the financial planning process, including the role and responsibilities of a financial planner and the analytical tools required for effective decision making. Topics include professional conduct and ethics, regulatory issues, economic concepts, time-value-of money, debt management, and education planning. Student may only receive credit for BUS 302 or FIN 367.	
FIN 368	3	Advanced Corporate Finance
Description:	An examination of corporate restructuring, equity and debt offerings, mergers and acquisitions, bankruptcy, derivative securities such as options, futures and swaps, and other topics of current interest in the corporate finance area. The course will also examine case studies of prominent and news-worthy businesses and discuss corporate culture as it relates to financial performance. (Prerequisite: FIN 362)	
FIN 370	3	Non Profit Finance
Description:	A study of the theories and practices of non-profit financial management and decision making, including budgeting, reporting requirement, non-profit accounting and financial standards, laws, regulations, and tax provisions. Focus is on the role of financial management in maintaining financial health and legal status of a non-profit organization and preserving public access and ethical standards. (Prerequisites: FIN 362)	
FIN 372	3	Current Issues in Finance
Description:	Exploration of contemporary topics in finance. The complex topics may vary each semester to reflect the dynamic nature of financial markets in a globalizing, regulatory and ethical environment. (Prerequisites: FIN 362)	

Course	Credits	Title
FIN 373	4	Finance for Decision Making
Description:	Management level analysis and discussions of the techniques of accounting for business transactions and reporting will be studied. This course will have an emphasis on interpretation of financial statements for both planning and controlling functions of management for use in making sound business decisions.	
FIN 398	3	Finance Practicum
Description:	This culminating course prepares students for the real challenges of working in the field of finance. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. (Instructor permission required)	
FIN 399	3	Finance Practicum
Description:	This culminating course prepares students for the real challenges of working in the field of finance. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. (Instructor permission required)	
FIN 401	1 TO 6	Independent Study & Research
Description:	Designed to provide an opportunity for a junior or senior to engage in independent study and research in a specific phase of the major field.	
FLE 307	3	Strats Tchng Foreign Languages
Description:	Specialized instruction in the theories and practices of global language teaching and learning, integrating the use of current technologies.	
FMD 101	3	Apparel Construction & Design
Description:	This course provides students with a basic understanding of garment construction. Students apply textile principles, design elements and styling into constructing garments which are a reflection and reinterpretation of current trends in a specific market. A sample book of various construction methods and details is developed. Selection of fabrics, fabric utilization, measuring bodies and sizing are incorporated into the understanding of proper construction and fit. 2 hour lecture, 2 hours laboratory. (Fee applies)	
FMD 106	3	Computer Appls for Fashion
Description:	An introduction to the use of various computer applications used in the fashion industry. Students will experience and acquire skills in the fundamental use of the Adobe Creative Suite and Microsoft Office, including Excel, Word and PowerPoint. (Fee applies)	
FMD 126	3	Intro to the Fashion Industry
Description:	Comprehensive study of the fashion industry including history, current events and potential career paths in fashion. Students will gain an understanding of business and economic principles and understand the direct application to the rationale and decision-making of the fashion industry. From the Industrial Revolution to contemporary trends in textiles and fashion, this course explores business and economic theories through real world, up-to-date examples applied to the fashion industry.	
FMD 127	3	Intro to Product Development
Description:	An in-depth study of product development and the processes involved in creating new products from concept to consumer which include business planning, consumer markets, trend forecasting, color management, fabrication, garment styling, line development, sizing, quality, sourcing, pricing, costing, sales, production, and distribution. (Prerequisite: FMD 126)	
FMD 200	1 TO 3	WI: Special Topics in Fashion
Description:	Survey of contemporary trends in fashion focusing on specific categories of fashion products or specific	

Course	Credits	Title
		segments of the industry. Topics include: menswear, bridal, lingerie, children's, accessories, cosmetics, film, sustainability, outdoor/activewear, etc.
FMD 206	3	Flat-Pattern Making & Design
Description:		Principles of design and textiles are applied in the development of original designs utilizing flat pattern methods. 2 hour lecture, 2 hours laboratory. (Prerequisite: FMD101). (Fee applies)
FMD 207	3	Draping
Description:		Principles of design and textiles are applied in the development of original designs utilizing draping methods. 2 hour lecture, 2 hours laboratory. (Prerequisite: FMD 101, 206) (Fee applies)
FMD 208	3	Technical Design in Adobe
Description:		Exploration of the technical design process and creation of flats and specifications for various types of garments and products. Students learn about print repeats along with woven and knit simulation. (Prerequisite: FMD 209)
FMD 209	3	Adobe II for Fashion
Description:		Students advance their skills in using Adobe for technical drawings, illustrations, print design and store layouts for visual presentations. (Prerequisite: FMD 106).
FMD 300	0 OR 3	Internatn'l Fashion Study Tour
Description:		Travel to key countries/cities of the world during spring break experiencing various aspects of the fashion industry and meeting industry professionals abroad. These trips are customized for fashion merchandising students to provide a hands-on experience.
FMD 309	0 OR 3	Textiles
Description:		Analysis of material and products from the basic concepts, including fiber content, yarn construction, fabric construction, finishes, applied surface design, dyeing and printing, and the basic components of construction and quality.
FMD 310	3	Apparel Construct & Design II
Description:		Students advance their construction and design skills while furthering their understanding of proper construction and fit. Industrial sewing machines will be used for construction. Students will develop a collection from concept to technical packs to final garments. 2 hour lecture, 2 hours laboratory. (Prerequisites: FMD 207, 344) (Fee Applies)
FMD 320	3	Visual Merchandising I
Description:		Visual Merchandising promotes the communication of a brand and/or fashion trend to the consumer. Students will learn the basic concepts, methods and application of visual design for various retail venues with a concentration in department store visual and merchandising practices. Students will be exposed to common tools of the trade, design principles, consumer psychology and marketing principles to aid in the creation of various displays on and off campus. The course covers methods of promoting and displaying merchandise, retail analysis and use of props and lighting to influence consumer spending.
FMD 321	3	Visual Merchandising II
Description:		Visual communication has a key role in the success of a company. In this course, students advance skills in visual merchandising and styling to communicate brand identity which translates a company's value into appealing imagery for their target market. The course covers how to establish a career in styling and lays out the base knowledge a stylist must have in order to work in the industry. This course also includes an exploration of fashion terms, icons, history, and sources of inspiration, as well as portfolio building, branding and networking. (Prerequisite: FMD 320)

Course	Credits	Title
FMD 322	3	Advance CAD
Description:	A senior level course in which students develop advanced skills in the Adobe Creative Suite and apply these skills to various graphic related projects with the objective of designing product for a global marketplace using current trend information. (Prerequisite: FMD 208, ART 302)	
FMD 324	3	History of Costume
Description:	Study of historic costume from ancient times to the present day with emphasis on the geographical, political, religious, and social factors, which affected the clothing worn.	
FMD 328	3	Buying Principles & Practices
Description:	In-depth study of the purchasing functions and responsibilities of the buyer (traditional retailer) or merchant (private-label retailer) of various product categories. Analysis of buying plans based on merchandise assortment and dollar planning. (Prerequisites: FMD 106, MATH 205)	
FMD 334	3	WI: Fashion Seminar
Description:	Senior level course designed to provide students with job search skills and strategies, and will hone their presentation and interview skills. This course builds and expands on all coursework with the goal of integrating content and applying it to real-life scenarios. The students will use their business and creative skills to craft an innovative response to the needs of a company. (Senior status required)	
FMD 337	3	Fashion Field Experience I
Description:	The purpose of this course, via reflection and analysis, is to integrate the experience (90-120 hours of off-campus work experience) and insights gained with the academic theory, principles, concepts and ethical aspects of the industry. In addition to academic goals, this course is intended to enhance their professional and public speaking skills, strengthen their personal and professional values and ethics, clarify their personal and career goals, and develop their self-confidence.	
FMD 338	3	Fashion Field Experience II
Description:	The purpose of this course, via reflection and analysis, is to integrate the experience (90-120 hours of off-campus work experience) and insights gained with the academic theory, principles, concepts and ethical aspects of the industry. In addition to academic goals, this course is intended to enhance their professional and public speaking skills, strengthen their personal and professional values and ethics, clarify their personal and career goals, and develop their self-confidence. Experience I and II must be with different companies. (Pre-requisite: FMD 337)	
FMD 339	3	Portfolio Development
Description:	Senior level course which covers the preparation and enhancement of a professional portfolio including professional image, demonstration of skills, and display of relevant projects. Students will refine their presentation and interview skills.	
FMD 344	3	Product Line Management
Description:	Product managers, sometimes known as brand managers, are responsible for managing the marketing activities for their product or brand and typically have responsibility for sales volume and revenues. The courses will focus on developing critical skills such as developing brand strategy, advertising, promotional programs, and the planning activities associated with those tasks. (Prerequisites: FMD 106, 127, 328)	
FMD 345	4	Fashion Marketing
Description:	This course focuses on the integration of fashion marketing concepts, practices and applications. Students will analyze opportunities regarding merchandise positioning, brand imagery, targeting and segmentation of fashion products and will facilitate the development of a marketing/merchandising plan. In addition, students will learn about all aspects of fashion show production; a key promotional activity. Throughout the course various careers in fashion are examined including, advertising, marketing, and	

Course	Credits	Title
		public relations. (Prerequisite: MKT 309)
FMD 350	3	WI: Industry Challenge
Description:	The Industry Challenge Course is an essential hands-on experience course that challenges students to apply what they are currently learning in the classroom to the real world. Every year the challenge is with a company that is a leader in design, sourcing, manufacturing, and distribution of apparel. Responding to industry data and customer trends, the students must develop a product or a business strategy to grow the company's portfolio or improve the company's business practices. The expectation is to create a full proposal for launching with economic viability. (Department Chair Approval required)	
FNU 109	0 OR 4	Food Fundamentals
Description:	Study of food, food preparation and meal planning, with an emphasis on composition, nutritive value, convenience, preservation, and safety.	
FNU 200	1 TO 3	Spec Tpcs in Food & Nutrition
Description:	Focused study of a food and nutrition topic of current interest. Topic varies by semester.	
FNU 206	1	Intro to Dietetics Profession
Description:	Survey of the historical and philosophical foundations of the profession of dietetics, including the Academy of Nutrition and Dietetics, professional ethics, the professional role of the registered dietitian, and career opportunities. Course is for Nutrition majors only.	
FNU 208	3	Normal Nutrition
Description:	The role of nutrients in body structure and function. Identification of the normal nutritional needs of individuals. Clarification of contemporary issues concerning health and nutrition.	
FNU 212	3	Nutrition and Culture
Description:	Study of historical, socio-economic, religious and immigration factors that have influenced the food and nutritional habits of diverse groups around the world and in the United States.	
FNU 213	3	HON: Current Issues in Nutr
Description:	Identification and investigation of timely nutrition issues; critical thinking skills, research and analysis applied to scientific, consumer-oriented, and global aspects of nutrition.	
FNU 220	2	Lifecycle Nutrition
Description:	The study of the nutritional needs throughout the life cycle, including: pregnancy and lactation, infants, children, adolescents, adults and older adults. Review of nutrient and energy needs, assessment of nutritional status and consequences of inadequate nutrition at each stage of life. (Prerequisite: FNU 208)	
FNU 300	3	HON: Special Topics
Description:	This designation is for courses offered as electives in the Undergraduate Honors Program, and may include both Honors-only courses and augmented Honors versions of courses that are offered elsewhere in the catalog. Courses have limited enrollment and content reflects Honors Program course outcomes around rigorous critical engagement, interdisciplinarity, effective communication, and meaningful collaboration.	
FNU 305	3	Advanced Nutrition I
Description:	Principles of human nutrition; factors involved in the availability, digestion, absorption, and utilization of macronutrients; energy balance; techniques for assessing personal nutritional status. (Prerequisites:	

Course	Credits	Title
		CHE 201, FNU 208)
FNU 310	0 OR 3	Experimental Foods
Description:	Experimental techniques and procedures used to study the physical and chemical properties of basic food materials and the alterations they undergo during preparation. (Prerequisites: CHE 101-102; FNU 109) 2 hours lecture, 2 hours laboratory	
FNU 315	3	Plant Powered Nutrition
Description:	Principles of plant-based nutrition in health and wellbeing, including the review of current science, dietary trends, and application in the prevention and treatment of chronic disease. Students will investigate the use of plant-based diets in different cultural practices and as a part of complementary and integrative medical practice. (Prerequisite: FNU 208, grade of C)	
FNU 317	3	Sports Nutrition
Description:	The role of nutrients in physical activity and performance. Application of the principles of nutrition to the special requirements of the athlete. Exploration of ergogenic aids and supplements. (Prerequisites: FNU 208 or 305)	
FNU 320	3	WI: Community Nutrition
Description:	Study of nutritional needs during the stages of the life cycle; methods used to provide care through utilization of local, state, and federal resources, services for health promotion, health maintenance, and rehabilitation; evaluation of multicultural factors in nutrition. (Prerequisites: FNU 220, 305)	
FNU 322	3	Advanced Nutrition II
Description:	Study of the nutritive process with a focus on the micronutrients; interrelationships among nutrients and mechanisms by which nutrients are metabolized in the cell; the interpretation and application of current research in nutrition studies. (Prerequisites: FNU 305; CHE 202)	
FNU 325	3	Medical Nutrition Therapy I
Description:	Study of the physiological basis for therapeutic diets in disease; dietary modifications for specific disease conditions; role of the dietitian in patient care. (Prerequisites: FNU 322; BIOL 210)	
FNU 326	3	Medical Nutrition Therapy II
Description:	Study of the physiological basis for therapeutic diets in disease; dietary modifications for specific disease conditions; role of the dietitian in patient care. (Prerequisite: FNU 325)	
FNU 353	3	Strategies Tchg Nutr Concepts
Description:	Survey of historical and philosophical development of the profession of dietetics. Study of educational objectives, teaching strategies, selection and production of nutrition education materials, and evaluation techniques. Application of these strategies to in-service and client instruction. (Prerequisites: FNU 220, 305)	
FNU 357	3	Foodservice Operations
Description:	Essentials of the operation of a foodservice facility; cycle menus, purchasing specifications, food and equipment, storage, production, quality control, safety and sanitation, delivery and service. (Prerequisite: FNU 109)	

Course	Credits	Title
FNU 358	3	Foodservice Management
Description:	Concepts, theory and design of foodservice organizational structure. Management decision-making, planning, communication, implementation, and control. (Prerequisites: FNU 357, 359)	
FNU 359	1	Foodservice Experience
Description:	Four class meetings and 48 hours of off-campus experience in foodservice operations. To be taken concurrently with FNU 357. (Prerequisite: FNU 109; Co-requisite: FNU 357)	
FNU 362	3	Nutrition Counseling
Description:	Examination and application of counseling skills, strategies and tools needed to promote changes in nutritional health behavior. (Prerequisite: FNU 353)	
FNU 370	3	Nutrition Practicum
Description:	Application of practice and research skills in acute, long-term care, and community environments. Combination of classes and off-campus experiences. Proof of medical insurance is required. Transportation to and from facilities is each student's responsibility. (Prerequisite: FNU 353; Co-requisite: FNU 372)	
FNU 372	3	WI: Nutrition Seminar
Description:	Study of practice and research skills in acute, long-term care, and community environments. (Co-requisite: FNU 370)	
FREN 101	3	Elementary French I
Description:	Introduction to the four basic language skills: speaking, writing, listening, reading. Emphasis on pronunciation and the fundamental elements of verb and sentence structure. Laboratory work required.	
FREN 102	3	Elementary French II
Description:	Continuation of the study of the four basic language skills: speaking, writing, listening, reading. Emphasis on pronunciation and the fundamental elements of verb and sentence structure. Laboratory work required. (Prerequisite: FREN 101 or instructor approval)	
FREN 201	3	Adv Intermediate French I
Description:	Contemporary overview of French language, syntax, and grammar with materials selected for exploring French culture. Emphasis on development of student autonomy in French, especially in speaking and writing. Laboratory work required. (Prerequisite: FRE 102 or instructor's approval) (Offered every fall)	
FREN 202	3	Adv Intermediate French II
Description:	Continuation of contemporary overview of French language, syntax, and grammar with materials selected for exploring French culture. Emphasis on development of student autonomy in French, especially in speaking and writing. Laboratory work required. (Prerequisite: FREN 201 or instructor approval)	
FREN 301	3	Study Travel: France
Description:	Study/travel immersion course conducted in English with the option of receiving credit in French. Classes meet once a week in the spring. Travel in May with final paper required to receive credit. Limited enrollment. Travel costs additional. Students who opt for French credit will utilize the French versions of the readings and films when available. Students may be enrolled in FREN 202 simultaneously with this course. This course is cross-listed with ART 301 and HIST 301. No prerequisite required for history credit.	

Course	Credits	Title
FREN 302	3	Intensive Study Abroad:French
Description:	Study/travel immersion course conducted in French. Classes meet once a week in the spring. Travel in May/June and final paper required to receive credit. Limited enrollment. Travel costs additional. (Prerequisite: 201-202 and departmental approval)	
FREN 309	3	French Phonetics&Conversation
Description:	Concentrated exercises in French diction, pronunciation, and conversation; application of international phonetic principles. Emphasis on oral proficiency. Extensive laboratory work required. (Prerequisite: FREN 202 or instructor's approval)	
FREN 310	3	French Stylistics: Composition
Description:	Concentrated study of the elements of grammar and expression through the imitation of selected passages and the writing of various forms of original composition: essay, instruction, narration, description, correspondence, and poetry. (Prerequisite: FREN 202 or instructor's approval)	
FREN 312	3	Advanced Conversation
Description:	Intensive group discussions and oral reports revolving around current themes and issues. Emphasis on oral proficiency and use of specialized vocabulary and idioms. Laboratory work required. (Prerequisite: FREN 309 or instructor's approval)	
FREN 314	3	WI: Francophone Cultures- Film
Description:	Exploration of the French-speaking world through film. Study of people, places, and contributions of French speakers from around the globe. Discussion of similarities and differences among Francophone cultures and in comparison with American culture. (Prerequisite: FREN 309 and 310, or instructor's approval)	
FREN 323	3	French for Careers
Description:	Specialized French language for careers in industry, government, and service to respond to the needs of international transactions in the French-speaking world. (Prerequisite: FREN 309 and 310, or instructor's approval)	
FREN 336	3	WI: La Francophonie
Description:	Study of the geography and cultures of the French-speaking world. Independent readings and discussion of major Francophone authors and the social and political issues reflected in their work. (Prerequisite: FREN 309 and 310, or instructor's approval)	
FREN 339	3	Contemporary Culture&Readings
Description:	Taught in seminar mode, this course is the study of contemporary issues, culture and civilization in France. Independent readings and discussion of major 20th century French authors. (Prerequisite: FREN 309 and 310, or instructor's approval)	
FREN 401	1 TO 3	Independent French Studies I
Description:	Individual research under the guidance and supervision of a member of the department. Approval of the chairperson is required.	
FYS 100	3	First Year Seminar
Description:	First Year Seminar focuses on academic engagement and skill building using a wellness centered approach that includes cognitive, interpersonal and intrapersonal development. Students will pursue truth through critical, independent, and creative thinking and collaborate effectively in groups in an inclusive and respectful manner. Each course will include an essential, enduring question based on at least one dimension of wellness (social, physical, emotional, occupational, intellectual, environmental, spiritual or financial) that sparks imagination and creativity.	

Course	Credits	Title
FYS 101	3	Success!
Description:	<p>FYS 101 is a unique three-credit course designed to provide participants with the opportunity to explore issues relevant to new students at Immaculata University while providing an open forum for discussion about college transition issues and concerns. Discussion topics aim to promote greater self-awareness, growth, and understanding of the student as a scholar, an individual, a member of the Immaculata community, and a global citizen. Furthermore, the design of this specialized course will front load students with academic skills and strategies they can apply and practice in all other classes for a successful semester.</p> <p>This course is designed to be fun, supportive, practical, and intellectually challenging. Most of the work in this class will be cooperative. Therefore, SUCCESS will largely rely on active, earnest participation. Students who successfully complete the course will leave with critical thinking skills, a knowledge of Immaculata resources and programs, increased self-awareness</p>	
FYS 110	3	Honors First Year Seminar
Description:	<p>Honors First Year Seminar focuses on academic engagement and skill building using a wellness centered approach that includes cognitive, interpersonal and intrapersonal development. Students will pursue truth through critical, independent, and creative thinking and collaborate effectively in groups in an inclusive and respectful manner. Each course will include an essential, enduring question based on at least one dimension of wellness (social, physical, emotional, occupational, intellectual, environmental, spiritual or financial) that sparks imagination and creativity.</p>	
GEO 101	3	Introductory World Geography
Description:	<p>A study of the physical environment for its geographic significance. Examination of the similarities and differences from place to place, on a world scale, of man and his works.</p>	
GER 101	3	Elementary German I
Description:	<p>Elementary German I introduces basic elements of grammar, brief conversational skills and an approach to the German culture through directed dialogues and a variety of oral and written exercises. Language Lab is required and it will serve as a useful, creative and motivating tool to build language proficiency.</p>	
HCM 120	2	Introduction to Health Care
Description:	<p>Introduction to the health care environment and information that is pertinent to the delivery of health care. Emphasis is placed on legal, ethical, safety, interpersonal behaviors, and communication considerations within the health care system. The course also reviews selected health professions and covers associated details of the occupation including work descriptions, environments, education and training, licensure, advancement and trends.</p>	
HCM 201	3	Medical Terminology
Description:	<p>This course provides an overview of medical terminology designed for allied health and exercise science program students. Delivered in an online, full-semester format, the course content is predominately self-instructional, utilizing course information from a textbook and accompanying software. Open to Allied Health and Exercise Science students. (Students who have taken HCM 307 may not take HCM 201.)</p>	
HCM 301	3	Health Data Management
Description:	<p>An introduction to the storage and retrieval, classification systems, access and release of health information, transcription, electronic document management systems will be addressed. Documentation requirements and standards for data sets will be reviewed.</p>	
HCM 302	3	Contemporary Iss in Hlth Care
Description:	<p>Introduction to the challenges facing the contemporary health care system and its managers. Focus is on the increasing complexity of the health care system, the underlying forces affecting health care outcomes, sources of health care data, and the rapid proliferation of health care resources.</p>	

Course	Credits	Title
HCM 306	3	Humn Res Mgt Hlth Care Setting
Description:	Conveys the principles of human resource management in the health care environment. Emphasizes management techniques such as interviewing, training, performance evaluation, compensation and benefits. Addresses trends in human resource management in the health care arena.	
HCM 307	3	HCM Medical Terminology
Description:	This course provides an overview of medical terminology designed for health care management students. Delivered in an online, accelerated format, the course content is predominately self-instructional, utilizing course information from a textbook and accompanying software. Students should complete HCM 307 before taking HCM 311. Open to HCM students ONLY. Students who have taken HCM 201 may not take HCM 307.	
HCM 311	3	Health Care Information Sys
Description:	Foundational knowledge needed to participate in the selection, implementation and use of clinical and administrative information systems. Familiarizes the student with new and emerging software applications in the health care field and how they can be used by health care managers.	
HCM 312	3	Budget & Finance Hlth Care Org
Description:	Exploration of the financial management functions at the institutional and department level. The institutional financial process is reviewed. Focus is on budgeting and cost analysis for department-level operations and the accounting for capital expenditures.	
HCM 314	3	Finance Accounting in Hlthcare
Description:	This course will address the basic principles of accounting required in the healthcare environment: relevant financial terminology, financial statements and the analysis of financial statements within the health care industry.	
HCM 315	3	Finance Reporting in Hlthcare
Description:	This course will address financial reporting issues in the healthcare environment, including coding and reimbursement, in both private and public health systems. Financial Reporting in Health Care Systems supports the development of a solid understanding of the role of financial management, budgeting and activity costing within the health care industry. (Prerequisite: HCM 314).	
HCM 321	3	Ldrshp in Hlth Care Settings
Description:	Exploration of various concepts and theories of leadership and how these might be applied to and impact management functions in health care settings. Review of the multiple leadership structures in health care organizations. Discussed are leadership versus management skills, team development, systems theory, organizational culture, and the role of the middle manager.	
HCM 326	3	Community Rels in Hlth Care
Description:	Delineation of the dual role of the health care industry as a provider of a public "good," while at the same time, functioning as a business enterprise. Students are introduced to the field of population (public) health. Students discuss outreach to underserved populations, health education and information, community activism, as well as marketing principles and strategies, market research, advertising and public relations as these are applied in health care.	
HCM 340	3	Legal&Soc Aspects of Hlth Care
Description:	Students become familiar with the legal and ethical issues in the delivery of health care services and the social environment in which health care is provided. In addition to aspects of the law pertaining to negligence, contracts, consents, confidentiality, privacy, risk management and medical research, students investigate the implications of the socio/economic status of patients, demographics, and health insurance/payment policies.	

Course	Credits	Title
HCM 421	3	WI: Health Ethics
Description:	This course meets Liberal Arts Core Requirements for ethics. An introduction to Health Ethics for those anticipating a career in health care. Health Ethics includes but is not limited to Medical Ethics, Health care Ethics, Bioethics, Biomedical Ethics, and Health Professional Ethics. Topics include the foundation for ethics in the theories and principles of ethics as applied to health care and a variety of ethical issues in health, including beginning of life issues (e.g. cloning, abortion, etc.) and end of life issues (e.g. euthanasia, assisted suicide, etc.).The Ethical and Religious Directives for Health care from the American Council of Bishops is covered. Special topics according to the interests of the professor and students will also be included (e.g. transplants, informed consent, medical mistakes). Required course for Health Care Management and Allied Health majors.	
HIST 115	3	World Civilization I
Description:	An introductory survey of the origins, development, and achievements of the world's major civilizations from ancient times to the end of the European Middle Ages; emphasizes the comparative study of cultures and institutions, and contacts among different civilizations.	
HIST 116	3	World Civilization II
Description:	An introductory survey of the development and transformation of the world's major civilizations since the 15th century; emphasizes the process of social, economic, and political change as the West asserted global dominance, the reaction of non-western societies, and the development of interdependence among civilizations in the contemporary world.	
HIST 117	3	Vietnam Today
Description:	Despite the obsession of the public, the media, and politicians with the latest crisis in the Middle East or Russian misbehavior, the coming decades are most likely to be dominated by relations between the United States and East Asia. To understand East Asia it is useful to examine one of the Asian societies in some detail. The "usual suspects" are China and Japan.This course takes a different approach by examining Vietnam. Once we were enemies. Now we are not. The past thirty years has witnessed a tremendous amount of change in Vietnamese culture and society. Since 1986, when the Vietnamese government instituted the renovation policy (doi moi), Vietnam has become one of the "Asian Tigers" economies, it has become a popular tourist destination, religious practices have flourished, and many Vietnamese-Americans have returned to visit their country of origin. This course will explore culture and society in Vietnam, focusing on recent social and cultural changes, and the relationships b	
HIST 200	1 TO 6	Special Topics in History
Description:	Selected topics in history and politics. Topics will rotate based on student and faculty interest.	
HIST 204	3	I.H.M. History
Description:	History and spirituality of the Congregation of the Sisters, Servants of the Immaculate Heart of Mary. (Offered in the IHM Formation Academic Program)	
HIST 205	3	The American Revolution
Description:	Origins, progression, and consequences of the founding of the American Republic.	
HIST 206	3	The American Civil War
Description:	Military, social, and political history of the American Iliad.	
HIST 207	3	Seminar: The Historian's Craft
Description:	An introduction to historiography and to the methods of historical research, analysis and writing. This course should be taken in sophomore year and is required for the major.	
HIST 209	3	Screen History:Am Hist & Film
Description:	For moviegoers, films both reinforce and challenge their conceptions of their world and their past. This	

Course	Credits	Title
		course will examine noteworthy American films in light of their historical significance and context.
HIST 211	3	Documentary Film
Description:		This course examines the problems, techniques, and achievements of efforts to record or reconstruct events on film in a historically accurate way.
HIST 213	3	The Contemporary United States
Description:		An exploration of the roots of contemporary issues in society in the United States: the increased power of the executive in government, the rise of minority groups, the changing family, the place of communications media in the formation of public opinion, and changes in the economy.
HIST 214	3	HON: Refugees
Description:		Examines the origins, experiences, consequences and future of mass flights of humans across national boundaries.
HIST 216	3	Women's History
Description:		Historical perspectives on the evolution of women's lives and roles in America and the rest of the world.
HIST 217	3	Ireland & Irish Diaspora: Film
Description:		This course examines decisive moments and important developments in the history of Ireland and of the Irish abroad through the medium of film.
HIST 218	3	The History of Ireland
Description:		Survey of the history of Ireland from pre-Celtic times through the present with a special emphasis on the development of the Anglo-Irish ethnic and religious conflict.
HIST 219	3	WI: The First World War
Description:		Military, political, economic, social, and cultural aspects of the watershed event in modern history, the war of 1914-1918.
HIST 220	1 OR 3	The Legend of Duffy's Cut
Description:		Examine the tragic death by cholera and violence of 57 Irish immigrant railroad laborers near campus in 1832 from the perspectives of American immigration, epidemiology, labor history, and forensics. A subject unique to Immaculata University, the course will utilize the exclusive book and film of the same subject. (Usually one credit, but may run as three credits).
HIST 224	3	The World Conquerors
Description:		This course explores, through biographies and other sources, the global history created through the activities of five individuals who created personal, universal empires and shaped whole epochs of human history: Alexander the Great, Attila the Hun, Genghis Khan, Napoleon Bonaparte and Adolf Hitler.
HIST 225	3	HON: Conflict in Islamic World
Description:		This course will explore the contemporary conflict in the Middle East and its roots. With the departure of European colonial powers from the Middle East after World War II, several factors put the region on a course for conflict—including the creation of Israel in 1949, the rise in the global demand for oil, and the social displacement caused by infrastructure modernization in the Arab lands that accompanied the growing oil industry.

Course	Credits	Title
HIST 228	3	WI: The Second World War
Description:	Examines the many facets of the most important event of the 20th Century in its global context.	
HIST 232	3	Industrial East Asia
Description:	East Asia has been an important part of the world economy since ancient times. China's advanced economy provided many goods - both luxuries and practicalities - to foreign lands. The rapid industrialization of the West in the Nineteenth Century reversed the relationship, with the Asian market taking an important place in world trade. Belatedly, Japan, then China, then other Far Eastern countries began their own industrialization. These countries have been so successful that political power has followed on economic power. Now, China, Japan, the United States, and the European Union are entangled in a complex relationship. That relationship mixes competition with cooperation, and envy with ambition. Understanding something of the economy, society, and politics of "Industrial East Asia" is now and will remain in your lifetimes essential for business, travel, and informed citizenship.	
HIST 234	3	WI: Revolutionary Europe
Description:	European history from the late 18th century to the outbreak of the First World War. Examines the political, economic, and social revolutions of the century of European ascendancy.	
HIST 235	3	WI: Europe in Twentieth Century
Description:	The European experience from the outbreak of the First World War through the Great Depression and the crisis of democracy, the Second World War and reconstruction, to the collapse of communism and the movement toward European unity.	
HIST 239	3	Film History
Description:	A survey of the history of film from silent film to the present. The course introduces students to genres, directors, and national cinemas while touching upon changing technologies, modes of production, and forms of distribution.	
HIST 242	3	Medieval Studies
Description:	This course explores the history of the Western world from the mid-5th century through the mid-fifteenth century. Topics include: the end of the Roman Empire, the Germanic barbarian kingdoms, Byzantium and the Slavs, the rise of Islam, the Vikings, Church reform and crusade, economy and society, "Gothic Age" culture.	
HIST 246	3	Middle East History & Politics
Description:	A study of the historic forces that have shaped the contemporary Middle East, and an analysis of the region's significance in international politics including basic principles of Islam, Arab culture, and the influence of new forces in the Middle East.	
HIST 247	3	Russia: Politics and People
Description:	Historical forces shaping the Russian identity and institutions; the rise and fall of the Communist regime, and contemporary developments in Russia.	
HIST 293	3	Westerns
Description:	Examines the history of the Westward movement through film and scholarship. Topics covered include race and culture, gender, capitalism, law and order, war, and the West in myth and legend.	
HIST 294	3	Crime Story
Description:	Examines the portrayal and reality of major themes in crime and policing in films and literature.	

Course	Credits	Title
HIST 295	3	War Movies
Description:	Examines the evolution of the military art across time, some of the chief professional and moral issues facing commanders, and artistic representations of war.	
HIST 296	1 TO 3	Staff Ride
Description:	This course examines the anatomy of a battle on the terrain where it occurred. The course involves trips to actual battlefields.	
HIST 297	3	Models of Military Leadership
Description:	This course uses historical cases to study the evolution of military leadership. It examines various models and styles of military leadership in the context of history utilizing contemporary concepts and principles. Students will consider how exemplary military leaders communicated, solved problems, and motivated their subordinates. A focus of this class will be on the moral dilemmas that military leaders have historically faced. The course will provide students with models and approaches that they can apply in today's dynamic leadership environment.	
HIST 300	3	HON: Special Topics
Description:	This designation is for courses offered as electives in the Undergraduate Honors Program, and may include both Honors-only courses and augmented Honors versions of courses that are offered elsewhere in the catalog. Courses have limited enrollment and content reflects Honors Program course outcomes around rigorous critical engagement, interdisciplinarity, effective communication, and meaningful collaboration.	
HIST 301	3	Study Travel
Description:	Study/travel immersion course conducted in English with the option of receiving credit in French, Spanish, or Italian. Classes meet once a week in the spring. Travel in May with final paper required to receive credit. Limited enrollment. Travel costs additional. Students who opt for French/Spanish/Italian credit will utilize the French/Spanish/Italian versions of the readings and films where available. Prerequisite for French/Spanish /Italian credit: 201-202 and departmental approval. Students may be enrolled in 202 simultaneously with this course. This course is cross-listed with FREN301/SPAN301/ITAL301. No prerequisite required for history credit.	
HIST 303	3	History of American Business
Description:	The history of American business from colonial times to the present. The course offers a variety of case studies from well-known companies and industries and a thematic emphasis on government-business relations.	
HIST 305	3	Introduction to Public History
Description:	An introduction to theoretical and methodological practices of public history, this class serves as a foundation for considering the implications of shared practices of history in which professionals consider and collaborate on the meaning of the past for the present. This introductory public history class looks at the history of the field, varied approaches to public history, and specific topics such as material culture studies, 'race and place,' and modern war memory.	
HIST 311	3	WI: American Studies I
Description:	A study of the American character, revolutionary America, and an analysis of America's race relations.	
HIST 312	3	WI: American Studies II
Description:	An examination of modernity, reform, race, gender, and conflict in twentieth century America.	
HIST 355	3	Afghanistan: Culture & History
Description:	The recently ended conflict in Afghanistan was America's longest war. But what do Americans really	

Course	Credits	Title
		know about this country? Long a crossroads of cultures and a bane of empires, this course will examine its rich history and diverse peoples from the time of Alexander the Great to the modern era, considering how its history could inform the future of the country and its status in the world.
HIST 359	3 TO 6	Field Experience /Internship
Description:		An active participation in field areas related to history, politics, law, public policy, and international studies. Students may explore the work of museums, government agencies, aspects of the legal system, archives and historical societies, and social service agencies.
HIST 360	3	WI: The Ancient World
Description:		History of the ancient societies of Mesopotamia, Egypt, Greece and Rome, from the rise of the Sumerian city-states to the fall of the Western Roman Empire in 476.
HIST 370	3	Themes in Religious Life
Description:		Students will focus on the life and times of men and women who have embraced the consecrated life and develop a greater awareness and appreciation of the influence of this vocation within the Catholic religious tradition. (Offered in the IHM Formation Academic Program)
HIST 371	3	WI: Junior Seminar in History
Description:		Preparation for the Senior Seminar entailing an examination of topics to be explored in greater depth in HIST 415. This course is required for the major.
HIST 415	3	WI: Senior Seminar in Hist
Description:		In-depth research on a specific historical theme. Formal oral presentation to the seminar class, followed by a polished scholarly paper. This course is required for the major.
HON 201	1	WI: Research Presentation
Description:		This course provides guidance and support for students presenting or publishing independent research outside of the supervision of an existing course or section. Examples of presentation or publication may include poster or panel presentations at external academic or professional conferences, publication in digital or print outlets, or presentation at governmental hearings or events.
HON 366	3	HON:Sci & Tech Literacy 21st C
Description:		The course is designed for anyone interested in exploring science topics especially when it pertains to one of their major and/or minor disciplines. The student will be asked to use technology as a tool for research and for enrichment. Ideally it should be a mix of science and non-science majors. The topics covered will be student driven with suggestions made by the instructor. These topics will be explored individually and together with class members, outside speakers, and faculty where needed. The course material will consist of video, web and multimedia. Assessment will be through individual research papers group and individual in class presentations. This will help fulfill the goals of writing and presenting across disciplines. Finally, the course also provides an opportunity for students to achieve high proficiency in scientific academic research methods.
HON 400	3	HON: Independent Honors Rsrch
Description:		The student plans and completes independent research on a subject of interest, which has been approved by the Honors Committee as having rigor commensurate with the goals of the Honors Program.
HON 401	3	HON: Honors Colloquium
Description:		Students and the faculty seminar leader determine a topic as the basis from which students can conduct independent research in their fields of interest.

Course	Credits	Title
HRM 311	3	Human Resource Management
Description:	The study of the role of human resource management within an organization. Topics include job analysis and design, employee recruitment, selection, orientation, training, motivation, performance review, and benefits, as well as the administration of legal and safety laws.	
HRM 318	3	Compensation and Benefits
Description:	This course focuses on styles of compensation and the various benefits offered by employers to their employees. Compensation such as bases for pay and incentive plans along with legal, health, and social benefits will be presented.	
HRM 335	3	Business Training Strategies
Description:	This course focuses on needs assessments, training styles, and forms of evaluation that may be utilized within an organization. Tools to implement each area of inquiry along with how training should be for the betterment of the company as well as employees.	
HRM 336	3	Managing Business Conflicts
Description:	This course addresses the sources of and the resolutions for a variety of conflicts that arise within organizations. Discussions and assignments will address the organizational leader's roles, and responsibilities and relationships that are critical to successful conflict resolution. A case study approach is used to examine real-world conflict situations and methods for dealing with them.	
HRM 344	3	Recruitment & Selection
Description:	In-depth research and discussions regarding employee recruitment and selection processes. Strategies of employee development, delineation of positions, and candidate selection are examined for internal and external candidates. Topics emphasize recruitment, interviewing, testing and validation from the view of an organization, the human resource department and the prospective employee. (Prerequisite: HRM 311)	
HRM 347	3	Employee Relations
Description:	Topics focus on achieving and maintaining healthy employer-employee relationships. Labor-management relations and collective bargaining are examined in-depth. Addressing internal employee issues is a key consideration. Research, role play, and case study analysis in the incorporation of topics presented within required course readings will be the bases for discussions.	
HRM 348	3	Business Employment Law
Description:	This course presents the legal environment of the employer-employee relationship. It provides an overview of the main areas of employment law, including anti-discrimination, labor relations, workplace safety and health, and compensation and benefits. Course content will consider legislation that governs employment activities. Primary focus will be on compliance with government regulations (Administrative Law) that detail rights and obligations within the employer-employee relationship. Case studies of significant court decisions are analyzed.	
HRM 376	3	Managing Human Capital
Description:	Management level study and discussions relating to the application and working functions of organizational internal and external human resource issues. Issues have the focus of employees and their roles and responsibilities when they are components in the working successes of an organization.	
HRM 398	3	Human Resource Mgmt Practicum
Description:	This culminating course prepares students for the real challenges of working in the field of human resources. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. (Instructor permission required)	

Course	Credits	Title
HRM 399	3	Human Resource Mgmt Practicum
Description:	This culminating course prepares students for the real challenges of working in the field of human resources. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. (Instructor permission required)	
HUM 200	1 TO 6	Special Topics in Humanities
IDM 110	3	WI:Living in the Digital World
Description:	Study of the wide variety of ways that technology is used in everyday life, as well as, how our lives are impacted by our daily technological choices. Our society would not exist without the aid of technology, and our dependence upon technological devices for the management and communication of every facet of our lives is paramount. Topics covered include the technological impact upon such themes as: religion, politics, entertainment, healthcare, education, sports, social media, and business.	
IDM 220	3	Prin Interactive Digital Media
Description:	This course is an introductory course to the world of interactive and digital media design. The focus will be on creating interactive experiences that are both functional and engaging. This will be approached from various points-of-view: design, usability, technique, and entertainment. Students will explore ways of constructing types of digital media and consider aesthetic, technical, and social effects of this work.	
IDM 325	3	Dynamic Program & Frameworks
Description:	This course is an introduction to computer programming using various programming languages, such as: Processing, HTML, Java, C++, Python and others. This course covers basic procedural techniques such as variables, data types, selection, iteration, and functions. It will also introduce students to object-oriented programming. We'll also look at various general programming concepts, such as algorithm design and debugging. By the end of the course, students should be able to construct a moderately-sized, coded program.	
IDM 330	3	Found of Animation & 3-D Model
Description:	This course offers a comprehensive introduction to the techniques, theory, history and cultural significance of animation and 3-D Modeling. Students will explore the history of animation as an entertainment and art form as well as demonstrate and apply basic skills in traditional (cell/stop motion) and digital animation.	
IDM 405	3	Internship
Description:	The IDM internship Program provides an opportunity for professional experience supporting application and further development of the knowledge gained in the classroom. Under faculty supervision, students work in positions related to their program and/or career goal, and complete reflective academic assignments. Specific assignments related to project management, project development, and project completion will be required in the internship. Mentors in the field will complete a review of student projects, supervision of student's day-to-day work in the industry, and a final professional characteristics and professional skill set evaluation. (Prerequisites: IDM 110, 220, 325, 330)	
IDM 410	3	Senior Capstone I:Rsch & Innov
Description:	The first of two courses in the IDM Capstone sequence, and to be followed by IDM 420. This course requires students to conduct rigorous research into an area of interest within Interactive Digital Multimedia, and to devise a project that demonstrates that research. Students are expected to implement a series of proofs-of-concept and ultimately write a thorough proposal for the project they will execute in the second semester of the IDM sequence, IDM 420. (Capstone)	
IDM 420	3	Senior Capstone II:Proc & Publ
Description:	The second of two courses in the IDM Capstone sequence, proceeded by IDM 410. In this capstone	

Course	Credits	Title
		course, students work closely with faculty to implement, test and refine the project they devised in the earlier semester. This course is writing-intensive, requiring students to extensively document their research, their process and their results. It is required that each student will have a working product prototype. (Capstone - Prerequisite: IDM 410)
IMAC 101	0	Immaculata 101
Description:		Immaculata 101 is designed to provide the learner with information and exercises to raise self-awareness and build the student's capacity to be resilient, informed, proficient, and resourceful in their academic and personal journey. The course will help prepare the learner for a successful academic experience and topics include: resiliency as an adult student, time management, academic tips and tools for success, navigating Moodle, policies and procedures, financing your degree, and the benefits and ROI (Return on Investment) of your degree.
INFO 103	3	Data Anlyt & Artificial Intell
Description:		Surveys the history, uses, and potential applications of big data and artificial intelligence (AI). Students learn how data is used to gain insight into the past, present, and future. Research and documented applications exemplify how data and AI is being used in business, sports, education, healthcare, and other industries. (Open to all students)
INFO 104	3	Computer Technology & Appls
Description:		Explores the skills required to effectively and efficiently use technology to increase productivity in terms of electronic communication and the management of information systems. Case studies are used to show the use of technology in various industries.
INFO 105	3	Storytelling with Data
Description:		A first course in creating and using charts, graphs, data maps, infographics in order to present data in a format that explains and interprets data.
INFO 120	3	Web Design Fundamentals
Description:		Introduces the fundamental technology and tools used for designing and managing web-based content. Hands-on projects provide the development of the skill proficiency required for designing and managing web-based content. (Open to all students)
INFO 125	3	Intro to Information Policy
Description:		Explores information policy through case studies that highlight the advantages and challenges regarding the collection and use of data/information for individuals and organizations. Information policy topics include, but are not limited to the collection, access, security, and privacy of data/information.
INFO 151	3	Sports Analytics
Description:		Students learn how to use statistical thinking and statistical methodology to make inferences and predictions on the vast amounts of data available in the world of sports. There are two key aspects of sports analytics - on-field (e.g. player and playing analytics) as well as the business side of sports management. Students will explore how examples like Moneyball and Trust the Process are influencing sports franchises to take a revolutionary approach to organizational management.
INFO 200	3	Topics in Technology
Description:		A topic in technology outside the standard course offerings in a specialized area of technology.
INFO 214	3	Multimedia: Concepts & Design
Description:		Explores the philosophical, cultural, and sociological aspects of multimedia. Hands-on projects utilize both creativity and the design process required to organize and produce a multimedia presentation. (Open to all students)

Course	Credits	Title
INFO 215	3	Social Media Dynamics
Description:	Examines the use of social software while exploring the benefits and issues associated with the latest digital technology. Develops proficiency in terms of effective use of data and information: searching, organizing, analyzing, storing, and communicating via the latest social computing tools. (Open to all students)	
INFO 230	3	Web Design Applications
Description:	Develops skills for designing, implementing, and testing web-based applications. Considers design approaches leading to the implementation of effective interfaces appropriate for the users of the applications. Includes the use of current tools, databases, and digital media.	
INFO 240	0 TO 3	Technology Workshops
Description:	Develops basic skills in specific electronic tools and technologies. Specific content offerings vary. (Open to all students)	
INFO 310	3	System & Project Management
Description:	Explores the processes needed to define, design, build, buy, validate, and integrate systems into an organization. Develops the skills required for requirements engineering, identifying system components, acquiring, sourcing, integrating, testing and deploying systems for organizations.	
INFO 400	1 TO 3	Topics in Technology
Description:	Explores, through study or research, a specific topic chosen by the student (or a small group of students) and approved by a member of the department. (By prior arrangement with a member of the department.)	
INFO 404	3	Human Computer Interaction
Description:	Introduces the issues concerning computer and software application usefulness and usability to the user community. Focuses on the ability to recognize the needs of application users in the context of accomplishing work within and across organizations. Considers a broad spectrum of skills, including but not limited to topics such as user and task analysis, ergonomics, human factors, accessibility standards as well as cognitive psychology.	
INFO 405	1 TO 3	Professional Internship
Description:	A limited-enrollment, mentored professional field experience in the application of information-technology skills. Students will apply for positions that will provide hands-on field experience and enhance career readiness. (By prior arrangement with a member of the department.)	
INFO 408	1 TO 3	Research Fundamentals
Description:	Provides an introduction to the methods currently used by researchers in this field. The research area (mathematics, computer and/or information technology) and specific topic is selected by the student in consultation with the instructor.	
INFO 409	3	WI: Directed Readings
Description:	Examines specific themes via assigned readings. The themes are selected by the group and instructor. Oral presentations as well as written reports are required.	
INFO 410	3	Senior Seminar
Description:	Uses professional research methods for the development of an in-depth research paper and presentation on a mathematics, computer, and/or information technology related topic. Topics are chosen by the student in consultation with the instructor from current research areas or areas of emerging interest.	

Course	Credits	Title
ITA 101	3	Elementary Italian I
Description:	Introduction to the four basic language skills: speaking, writing, listening, reading. Emphasis on pronunciation and the fundamental elements of verb and sentence structure. Laboratory work required. (Offered every fall)	
ITA 102	3	Elementary Italian II
Description:	Continuation of pronunciation and basic elements of verb and sentence structure through oral and written exercises. Laboratory work required. (Prerequisite: ITA 101 or instructor's approval)	
ITA 201	3	Adv Intermediate Italian I
Description:	Contemporary overview of Italian language, syntax and grammar with materials selected for exploring Italian culture. Emphasis on development of student autonomy in Italian, especially in speaking and writing. Laboratory required. (Prerequisite: ITA 102 or instructor's approval)	
ITA 202	3	Adv Intermediate Italian II
Description:	Continuation of contemporary overview of Italian language. Emphasis on development of student autonomy in Italian, especially in speaking and writing. Laboratory required. (Prerequisite ITA 201)	
ITA 301	3	Study Travel
Description:	Study/travel immersion course conducted in English with the option of receiving credit in Italian. Classes meet once a week in the spring. Travel in May with final paper required to receive credit. Limited enrollment. Travel costs additional. Students who opt for Italian credit will utilize the Italian versions of the readings and films when available. Students may be enrolled in ITA 202 simultaneously with this course. This course is cross-listed with HIST 301 and ART 216. No prerequisite required for History or Art credit.	
MATH 101	0 OR 3	Basic College Mathematics I
Description:	Survey course for students majoring in non-science fields. Concepts and applications of problem solving, set theory, logic, properties of numbers, application of number systems, algebra, and personal finance.	
MATH 102	3	Basic College Mathematics II
Description:	Survey course for students majoring in non-science fields. Concepts and applications of measurement, geometry, probability, statistics, voting and apportionment, and graph theory.	
MATH 106	3	Introductory Algebra
Description:	Introduction to algebraic concepts and language. The fundamental concepts of algebra are explored through development of mathematical models, interpretation of graphs, and solving of real-world problems. Topics include: linear equations and inequalities; polynomials and factoring; rational expressions; radical expressions; quadratic equations; and function notation. Designed for students who need to refresh their mathematical background prior to entering MATH 203-204.	
MATH 109	3	Math Fundamentals for Educ I
Description:	For education students, this course is an overview of the mathematical topics commonly taught in elementary and middle schools, including: numbers and operations; algebra; geometry; measurement; and data analysis and probability. In addition to the mathematical topics in the course, classroom discussions will focus on pedagogical methods.	
MATH 110	3	Mathematics for Nurses
Description:	Exploration and application of mathematical concepts including: roman numerals, fractions, decimals, ratio and proportion, percentages, conversions, and various calculation methods within the context of	

Course	Credits	Title
		nursing. The material is taught from a problem-solving perspective.
MATH 111	3	Math Fundamentals for Educ II
Description:		For education students, this course is an overview of the mathematical topics commonly taught in elementary and middle schools, including: numbers and operations; algebra; geometry; measurement; and data analysis and probability. In addition to the mathematical topics in the course, classroom discussions will focus on pedagogical methods.
MATH 200	3	Topics in Math
Description:		A topic in mathematics outside the standard course offerings in a specialized area of mathematics.
MATH 203	3	Pre-Calculus I
Description:		Focus on the study and analysis of data and functions through the interpretation of real-world examples. Course content includes reading, displaying, and interpreting data; gaining a graphic, symbolic, and numeric understanding of the algebra of functions including compositions, transformations, and inverses; understanding the differences between the basic functions including linear, polynomial, exponential, logarithmic, and trigonometric functions; and transforming data into equations through regression analysis. Use of spreadsheet technology will be integrated. (Requires competency in content covered in MATH 106.)
MATH 204	3	Pre-Calculus II
Description:		Continues the content of MATH 203 with an emphasis on developing, using, and interpreting mathematical models. Course content includes: solving systems of equations and inequalities including the use of matrices and linear programming; developing a deeper understanding of the basic functions including linear, polynomial, exponential, logarithmic, and trigonometric functions; and applying arithmetic and geometric sequences and series to real-world examples. Use of spreadsheets and other technology will be integrated. (Prerequisite: MATH 203 or equivalent; grade C required)
MATH 205	3	Retail Math I
Description:		Applies mathematics to retail concepts. It demonstrates mathematics as a language that quantifies retail concepts so that the concepts are measurable. The measurable concepts are then analyzed to assist in the decision making process. Topics covered include: sales elements, retail pricing and re-pricing, markup equations, inventory, dollar planning and control, and profit.
MATH 206	3	Retail Math II
Description:		This course applies mathematics to advanced retail concepts. It demonstrates the use of mathematics, reasoning, and communication to retail decision making via case studies. (Prerequisite: MATH 205)
MATH 207	3	Applied Calculus I
Description:		Focus on the study and analysis of data and functions through the use of limits and derivatives. Course content includes understanding of limits and continuity; interpreting the growth or decay of a function by using derivatives; and solving optimization problems. In addition, students will transform real-world data into symbolic representations through regression analysis, and then use the symbolic representation to perform calculations. Use of spreadsheets and other technology will be integrated. (Requires competency in content covered in MATH 203 -204.)
MATH 208	3	Applied Calculus II
Description:		Focus on the study and analysis of data and functions through the use of integration. The emphasis will be on using integrals to solve real-world problems. Students will often transform data into symbolic representations through regression analysis, and then use the symbolic representation to perform calculations. Use of spreadsheets and other technology will be integrated. (Prerequisite: MATH 207 or equivalent; grade C required)

Course	Credits	Title
MATH 216	3	WI:Discrete Math for Computing
Description:	Introduction to discrete mathematical concepts including: number systems, number proofs, sums, bases and computer arithmetic, sets theory with proofs, and formal logic. The material will be taught from a problem-solving perspective with emphasis on developing critical thinking needed for enhancing programming and database skills.	
MATH 217	3	Math Concepts for Managers I
Description:	This course makes explicit the connections between mathematics, mathematical modeling, and organizational dynamics. Students explore the mathematics behind tools used in the business environment and build an understanding of the mathematical infrastructure that supports management decisions. Topics include use of path analysis, linear programming, and the interpretation of graphs and statistics.	
MATH 219	3	Math Concepts for Managers II
Description:	A continuation of MATH 217, this course makes explicit the connections between mathematics, mathematical modeling, and organizational dynamics. Students explore the mathematics behind tools used in the business environment and build an understanding of the mathematical infrastructure that supports management decisions. Topics include saving models, borrowing models, mathematics supporting digitizing information, and growth models.	
MATH 224	3	HON: God, Universe, & Math
Description:	A survey of mathematical concepts in the context of philosophy and history. Initially, students learn mathematics by studying the problem solving methods used by philosophers and scientists. Through this approach, students view past problem solving as an iterative process - as the philosophers/scientists encountered both success and failure. Being enlightened by these various approaches, students develop their personal problem solving techniques when solving mathematical problems.	
MATH 303	3	Introduction to Proof
Description:	Introduction to mathematical proof techniques. Elementary topics from set theory and number theory will be used to teach common proof methods. This course is designed to facilitate the transition into the expectations of upper-level mathematics courses. (Prerequisite: MATH 216)	
MATH 304	0 OR 3	Calculus III
Description:	Continuation of MATH 301-302, covering additional topics from calculus, including L'Hôpital's Rule, improper integrals, infinite series, parametric equations, polar coordinates, vectors, and surfaces in space. This course continues with the principles from MATH 207-208, including lab exercises that utilize technology to address conceptual understanding, mathematical modeling, and data analysis. 2 hours lecture, 2 hours laboratory. (Prerequisite: MATH 207-208)	
MATH 305	0 OR 3	Calculus IV
Description:	The culmination of the calculus sequence, covering topics in multi-variable calculus, including vector-valued functions, partial derivatives, multiple integration, and line integrals. The principles from the rest of the calculus sequence are continued in this course, including laboratory exercises that utilize technology to address conceptual understanding, mathematical modeling, and data analysis. 2 hours lecture and 2 hours laboratory. (Prerequisite: MATH 304)	
MATH 307	3	Probability and Statistics
Description:	The topics of this course include: basic concepts of probability; random variables, common distributions, and applications; and basic concepts of statistics including sampling distributions, confidence intervals, hypothesis testing, and regression. (Prerequisites: MATH 207 and 208 or MATH 301 and 302 or instructor's approval)	
MATH 308	3	Numerical Analysis
Description:	This course introduces numerical techniques for approximating solutions to a variety of problems	

Course	Credits	Title
		spanning algebra, differential and integral calculus, interpolation, differential initial-value equations, and linear systems. Convergence criteria and error analysis associated with approximation methods will also be considered. (Prerequisite: MATH 304 and CIS 218)
MATH 309	3	Differential Equations
Description:		Ordinary differential equations taught from a mathematical modeling perspective. Topics include: first-order equations, linear equations with constant coefficients, special systems of equations, and special equations of higher order. Real-world applications and technology are integrated. (Prerequisite: MATH 302 or 208)
MATH 310	3	Modern Algebra
Description:		A rigorous introduction to the theory of groups, rings, and fields. (Prerequisite: MATH 303 and MATH 311 or instructor's approval)
MATH 311	3	Linear Algebra
Description:		A study of vector spaces, matrices, determinants, and systems of linear equations. (Prerequisite: MATH 303)
MATH 312	3	Modern Geometry
Description:		This course covers the development of postulational systems. Both Euclidean and non-Euclidean geometry will be discussed. (Recommended prerequisite: MATH 303)
MATH 322	3	Real Analysis
Description:		A rigorous treatment of the topics of calculus, including: sequences, limits, continuity, derivatives, integrals, and series. (Prerequisites: MATH 303, MATH 304)
MATH 350	3	Operations Research
Description:		Introductory survey of linear programming, dynamic programming, transportation and network theory, assignment problems, equipment replacement, scheduling problems, inventory control, decision theory, queuing theory, game theory, and simulation. Emphasis will be on methodology. (Pre-requisites: CIS 218, MATH 311)
MATH 400	1 TO 3	Topics in Mathematics
Description:		A study of selected topics outside usual offerings; by prior arrangement with the department. The topics of the course will vary depending on the students' interests.
MATH 405	1 TO 3	Professional Internship
Description:		A limited-enrollment, mentored professional field experience in the application of mathematics skills. Students will apply for positions that will provide hands-on field experience and enhance career readiness. (By prior arrangement with a member of the department.)
MATH 408	1 TO 3	Research Fundamentals
Description:		Provides an introduction to the methods currently used by researchers in this field. The research area (mathematics, computer and/or information technology) and specific topic are selected by the student in consultation with the instructor.
MATH 409	3	WI: Directed Reading
Description:		Examines specific themes via assigned readings. The themes are selected by the group and instructor. Oral presentations as well as written reports are required.

Course	Credits	Title
MATH 410	3	Senior Seminar
Description:	Uses professional research methods for the development of an in-depth research paper and presentation on a mathematics, computer, and/or information-technology related topic. Topics are chosen by the student in consultation with the instructor from current research areas or areas of emerging interest.	
MATH 411	3	Strategies for Teaching Math
Description:	For pre-service mathematics teachers, exploring strategies for teaching mathematics in middle and high schools, and the appropriate use of computers and technology in the classroom. Discussions and projects will explore how the use of historical and multi-cultural materials can enhance the experience of students. Students will be introduced to the benefits of membership in professional organizations.	
MATH 412	3	Capstone Experience for Tchrs
Description:	Focus on selected topics in linear algebra, algebraic structures, statistics, number theory, and mathematical modeling and how these topics apply to middle and high school curriculum. The completion of a written paper is required. (Prerequisite: MATH 301-302)	
MES 200	3	Middle Eastern Literature
Description:	Examination of the development of the short story, novel, and verse in Turkey, Iran, and the Arabic countries. Because this literature is so rich and diverse, the specific subject of the course will vary from semester to semester. Repeatable to a total of twelve credits.	
MES 201	3	Wars of the Middle East
Description:	Examination of the history of conflicts in this vital area from the First World War to the current war in Iraq. While the course provides appropriate political, social, and economic context for understanding events, the emphasis is upon understanding international relations and military.	
MES 301	3	Arab Encounter with the World
Description:	Examination of Arab encounters with the outside world from the Middle Ages through the present, looking at Islam's outward reach in such areas as exploration, trade missions, and conquest, and at the response to foreign cultures.	
MES 303	3	Power, Politics & Ethics of Oil
Description:	An overview of the historic, economic, political, and legal development oil industry from its formation to the present. Special attention is paid to the intricate relationship between the oil industry, the Arab states, and the world economy.	
MES 304	3	Modern Middle Eastern Politics
Description:	Examination of the domestic politics and international relations of the Middle Eastern states since the end of colonialism. Topics include the tension between Pan-Arabism and the nation-state, strategies of political and economic development, the contested history of democracy, and engagement with the great powers.	
MES 305	3	Islamic Art and Architecture
Description:	Survey of the diverse forms of artistic expression in the Islamic world from the time of the Prophet through the present.	
MES 306	3	Role of Women in Middle East
Description:	Examination of the familial, social, traditional, religious and political status of women within a range of Middle Eastern countries and ethnic groups including Iran, Iraq, Egypt, Turkey and Israel.	

Course	Credits	Title
MES 346	3	Middle East History & Politics
Description:	A study of the historic forces that have shaped the contemporary Middle East, and an analysis of the region's significance in international politics including basic principles of Islam, Arab culture, and the influence of new forces in the Middle East.	
MKT 200	1 TO 3	Special Topics in Marketing
Description:	Current topics dealing with ongoing facets of marketing.	
MKT 309	3	Marketing Principles&Practices
Description:	Marketing operations, functions, and institutions with particular emphasis on consumer goods. Basic considerations of consumer motivation and behavior; retailing and wholesaling; product planning; distribution; pricing policies; marketing research; advertising and sales promotion.	
MKT 310	3	Innovative Mrktng Strategies
Description:	Creating value in any organization is a key to success. This course will focus on ways leaders create and leverage value in the marketplace. Students will examine ways in which organizations communicate this value in today's environment. Social and mobile media, as well as other emerging platforms, will be analyzed.	
MKT 331	3	Advertising Principles
Description:	Introduction to advertising management from the perspective of the product manager or agency account supervisor. Covers fundamentals of planning and budgeting for an advertising campaign, media strategy development, and basics of commercial design and production for print and broadcast. (Prerequisite: MKT 309)	
MKT 350	3	E-Marketing
Description:	The course examines the role of electronic resources (particularly the Internet) in contemporary marketing methods and strategies. Using a combination of case studies, simulations, and hands-on projects, students will examine the financial, technological, organizational, and ethical implications of marketing via this technology in both retail and business-to-business marketing ventures, as well as compare and evaluate this form of marketing with more traditional marketing venues. (Prerequisite: MKT 309)	
MKT 351	3	Retail Marketing
Description:	An introduction to retail marketing, examining various retail formats, practices and strategies of small and large retailers, innovative strategies for retailing, franchising, retail firm organization and planning, and management of human resources and merchandise. (Prerequisite: MKT 309)	
MKT 352	3	Marketing Sales
Description:	This course provides an examination of planning, organizing, directing, and controlling the decision-making policies related to sales marketing. Course will investigate the skills and activities involved in the professional selling process and its goals of producing sales, building and maintaining customer satisfaction, and ensuring company profit. (Prerequisite: MKT 309)	
MKT 354	3	Social Media Marketing
Description:	This course examines how the social media platforms such as Facebook, Twitter, YouTube, and corporate blogs fit into an organization's overall marketing strategy. Course will investigate the skills and activities involved in designing and implementing effective social media marketing strategies. (Prerequisite: MKT 309)	
MKT 355	3	Brand Marketing
Description:	Guidelines of marketing and theories of brand strategy will be discussed, researched and implemented, with a general concentration and then specifics regarding certain products and services. Brand-related	

Course	Credits	Title
		decisions in the implementation process of brand strategies will be measured for marketing success/failure outcomes. (Prerequisite: MKT 309)
MKT 357	3	Global Marketing
Description:		This course examines product and service marketing in the global marketplace and the associated challenges. The course surveys international marketing approaches, foreign market dynamics, entry strategies, global marketing strategy, marketing plan, and communication plan. A spring break international trip is required component of this course. The cost of the trip is an added fee for this course. (Prerequisite: MKT 309)
MKT 359	3	Marketing Research
Description:		The course engages students in the processes and purposes of marketing research. Research design, data collection, data analysis, and application of research in problem solving and decision making will be covered. (Prerequisite: MKT 309; Co-requisite: ECO 307)
MKT 364	3	Marketing Management
Description:		This course examines the roles of marketing management and marketing managers in national and international markets. Heavy case study emphasis enables discussions leading to the rational of marketing decisions in both product and service industries. (Prerequisite: MKT 309)
MKT 398	3	Marketing Practicum
Description:		This culminating course prepares students for the real challenges of working in the field of human resources. An internship experience will provide an opportunity to combine actual experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. (Instructor permission required)
MKT 399	3	Marketing Practicum
Description:		This culminating course prepares students for the real challenges of working in the field of human resources. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. (Instructor permission required)
MSI 101	1	Leadership & Personal Dvlopmt
MSI 102	1	Introduction to Leadership
MSI 201	2	Self-Team Development
MSI 202	0 OR 2	Indiv-Team Military Tactics
MSI 301	3	Leading Small Organizations I
MSI 302	3	Leading Small Organizations II

Course	Credits	Title
MSI 401	3	Ldrship Challenges & Goal Set
MSI 402	3	Transition to Lieutenant
MSI 410	1 TO 3	Independent Study
Description:	Students become familiar with army supply management operations and procedures focusing on inventory and requisitioning procedures.	
MTR 100	1	Orientation to Music Therapy
Description:	An overview of the music therapy field. Areas addressed include educational and training requirements in music therapy; historical underpinnings of music therapy; and an introduction to major orientations to clinical practice.	
MTR 103	0.5 OR 1	Clinical Music Skills
Description:	Private instruction for one-half hour weekly. This course concentrates on learning clinical music skills in piano, voice, and guitar and is a requirement for all Music Therapy majors. Course must be repeated until all levels of competency is achieved as assessed in MTR 104, 105, and 106. Additional fee applies.	
MTR 104	0	Clinical Music Skills Eval I
Description:	An evaluation of musical competence in which the student prepares 10 songs (5 children and 5 adults) on piano and guitar, and performs a selection of these in a jury. These music skills are evaluated using competency criteria that include tunefulness of singing, quality of accompaniment, and overall musical integration. In addition, the student is required to transpose one of the prepared songs at sight and provide a simple accompaniment for a melody line provided during the jury using I, IV and V chords. Students must pass this evaluation in order to be admitted into MTR300 Music Therapy Practicum. Pass/Fail.	
MTR 105	0	Clinical Music Skills Eval II
Description:	An evaluation of musical competence in which the student prepares 20 songs (5 children and 15 adult) on piano and guitar, and performs a selection of these in a jury. The student demonstrates a range of accompaniment styles on both piano and guitar, including folk, jazz, Latin and Blues. In addition, students transpose 4 and 5 chord songs at sight and provide an accompaniment to a notated melody that includes I, ii, IV, V, V7 and VI chords. Students must pass this evaluation in order to continue in music therapy practicum (MTR300). Pass/Fail.	
MTR 106	0	Clinical Music Skills Eval III
Description:	An evaluation of musical competence in which the student prepares 30 songs (5 children and 25 adult) on piano and guitar, and performs a selection of these in a jury. Students demonstrate a range of accompaniment styles on both piano and guitar, accomplished during level I and II evaluations, as well as Travis picking, pentatonic improvisations on piano, and 12-bar Blues in at least three keys, In addition, students transpose 4 and 5 chord songs at sight and provide an accompaniment to a notated melody that includes I, ii, IV, V, V7 and vi chords. Students must pass this evaluation in order to be eligible for MTR400 Music Therapy Internship. Pass/Fail.	
MTR 107	1	Intro to Clinical Music Skills
Description:	In this course, students will develop technical and therapeutic music skills in voice, piano, guitar, and percussion relevant to music therapy clinical practice, and focus on the link between musicianship and therapeutic engagement. Instruction on these skills will involve the ability to sing with and without accompaniment (piano, guitar, percussion) with accurate pitch and appropriate emotional expression. This course provides an opportunity for supported development of planned and spontaneous musical expression in order to lay the groundwork for music therapy repertoire development in individual lessons. Additionally, the class will focus on the therapeutic meaning of music to meet the various needs	

Course	Credits	Title
		of different clients that students may encounter in clinical work.
MTR 200	3	Music Therapy Foundations
Description:		Students survey the music therapy discipline and are oriented to professional issues. Areas addressed include defining music therapy, areas of practice, and multicultural considerations in clinical practice. Methods of music therapy are introduced theoretically and applied in an experiential format. Students receive bibliographical instruction and are introduced to music therapy research through music-centered self-inquiry. (Prerequisites: MTR 100, PSY 101)
MTR 201	0 OR 3	Didactic Practices Mus Therapy
Description:		Students are introduced to didactic practices in music therapy, in which music experiences and therapeutic relationships promote the acquisition, restoration, or maintenance of cognitive abilities and skills integral to well-being. Clinical, and research literature pertaining to these practices are reviewed. The role of music experiences in client assessment and treatment is introduced in simulated didactic music therapy experiences. (Prerequisites: MTR 200, MUSC 391, MTR 103)
MTR 202	3	Medical Practices Mus Therapy
Description:		An examination of biopsychosocial medical practices in music therapy, in which music experiences and therapeutic relationships promote physiological and emotional wellbeing. (Prerequisites: MTR 103, MTR 200, MTR 201, Co-requisite: BIOL 202)
MTR 203	0 OR 3	Psychiatric Pract Mus Therapy
Description:		An examination of psychotherapeutic practices in music therapy, in which music experiences and therapeutic relationships promote mental and emotional wellbeing. (Prerequisites: MTR 103, MTR 200, MTR 201, MTR 202, MTR 300; Co-requisite: PSY 320)
MTR 204	1	Cultrl Responsvn&Mus Diversity
Description:		We live in a diverse and multicultural society shaped by events of the past that influence the present moment, and music is a part of culture's formation and expression. Many of the populations that students in music therapy will work with have cultures that are different from one's own. The engagement of these individuals in an appropriate manner requires the acquisition of knowledge about the experiences that have shaped a culture and their experiences of discrimination and oppression. Classroom discussions and experiential activities will focus on how these factors influence our current understanding of implicit bias, discrimination, common factors that affect most marginalized groups, and group-specific issues in America, and develop skills in cultural humility and responsiveness. In addition, this course will explore how to apply this knowledge into the clinical music setting in order to reach competency in culturally responsive music therapy practice. Approaches that develop sens
MTR 255	2	Technolgy for Music Therapy
Description:		This course provides an overview of applications of music technology in the context of clinical music therapy. The fundamental language and concepts of audio technology (analog and digital) will be reviewed and the literature on technology in music therapy will be surveyed. Students will be introduced to computer-based music production and recording, including the basic uses of music sequencing, recording, editing, as well as the basics of MIDI technology including sound modules and controllers. Through creative projects students will explore the application of these technologies to help clients work towards physical and psychological goals.
MTR 256	1	Intro Verbal Skills Mus Thrpst
Description:		This course will assist in the development of basic counseling skills to complement and enhance music therapy techniques in order to maximize therapeutic benefit for clients, and is designed to provide an introductory understanding of counseling and consultation processes for individuals and groups. This course will facilitate understanding of essential interviewing techniques to improve therapeutic relationships, demonstrate support, and facilitate growth. An understanding of the potential cultural and ethical considerations as related to verbal processing and music therapy skills is also emphasized.

Course	Credits	Title
		Students will participate in verbal discussion and dialogue, as well as live, interactive music experiences as a part of developing an understanding of concepts and techniques featured in the course. In addition, students will have opportunities to conduct simulated music therapy sessions involving class peers. Differentiation between the level of depth and insight work achievable at an u
MTR 300	1 TO 3	Music Therapy Practicum
Description:	A supervised clinical field training experience in various music therapy settings. Students have the opportunity to apply various principles, skills, and resources acquired through course work, as well as to develop new skills and resources. Students work under the supervision of both an on-site music therapist and university music therapy faculty. A weekly clinical training forum provides students with opportunities to share experiences, address problems and issues, and exchange peer support. Students document the practicum in a professional report (presented at the culmination of the semester), and record their personal experiences in self-inquiry logs. Each student must complete a minimum of three practicums (each featuring a different client population), at 1 credit each (3 credits total), for a minimum of 65-70 clinical training hours per semester (200 hours total). With permission of the department, students may complete more than one practicum within a given semester. (Prerequis	
MTR 301	1	Ethical Practice in Mus Thrpy
Description:	Students gain an understanding of ethical thinking in music therapy, focused on clinical practice, supervision and research. Students develop a working knowledge of AMTA and CBMT ethics and competency guidelines, discuss case examples, and develop critical thinking skills. Students also develop an understanding of HIPAA, professional relationships, confidentiality, and the relationship between education, training, clinical competence, and ethical practice. (Prerequisite: MTR 200)	
MTR 345	2	Psychology of Music
Description:	An overview of the physiological, neurological, psychological, developmental and social foundations of music. Students develop an understanding of auditory processing and music perception, music cognition, developmental foundations of music perception and learning, and disorders specifically related to music perception and processing. Research in the Psychology of Music will be surveyed and evaluated. (Co-requisite: PSY 101)	
MTR 400	1 TO 6	Music Therapy Internship
Description:	An extended, intensive, clinical field training experience featuring one or more client population(s) and/or setting(s). Students continue to work under both on-site and academic supervision, and continue to participate in the weekly clinical training forum. Students document the internship through various reports and summaries, and continue to record their personal experiences in self-inquiry logs. Each student must complete a minimum of two semesters of internship (approximately six months in total, combined duration), at 2 credits each (4 credits total), and must accrue a minimum total of 1000 clinical training hours combined over all semesters elected). By special arrangement and with the permission of the department, internship may be completed on a part-time basis over three semesters (approximately one year in total, combined duration), at 2 credits each (6 credits total). Prerequisites: MTR 100, 200, 201, 202, 203, 300 (3 credits); all music therapy course grades at C or higher	
MTR 401	0 TO 6	Music Therapy Special Topics
Description:	Individual reading, research, and presentation of a topic or development of a special project on an independent basis, under the direction of music therapy faculty. (Offered upon request.)	
MTR 406	2	Theoretic Orient MTR Clin Prac
Description:	Students prepare for professional life by developing a music therapy presentation, a resume, and practicing interview strategies. Students gain an understanding of the philosophical and theoretical underpinnings of music therapy clinical practice and integrate music therapy theories and practices through an examination of the clinical, theoretical, and research literature. This knowledge is applied by articulating and formally presenting their clinical orientation as it pertains to a particular population in a specific setting. Philosophies of therapy, human development, music and health are explored and connected to clinical practice with an emphasis on research. (Prerequisites MTR 203, MTR 300)	

Course	Credits	Title
MTR 408	3	Song Writing in Music Therapy
Description:	An in-depth orientation to using songs in music therapy clinical practice. Students develop a theoretical, methodological and practical understanding of song writing, along with various forms of lyric substitution. (Prerequisite: MTR 200) Elective course offered as needed.	
MTR 410	3	Songs in Thrpy:Repertoire Dev
Description:	Students survey the popular music literature and develop song repertoire in various genres, specifically focusing on children's music, spirituals, classic rock, folk, and popular music from the 1980s onwards. Sociocultural and developmental factors are discussed. (Prerequisite: MTR 200) Elective course offered as needed	
MTR 415	1	Music Therapy Research
Description:	Students develop an understanding of research in music therapy, including the various methods that characterize qualitative and quantitative approaches to research. Students gain skills in research literature search tools, methods, and APA style, and in so doing, develop an understanding of reading, analyzing, and writing research. Students apply theoretical concepts by conducting practical experiments on their peers in both quantitative and mixed methods approaches, and prepare posters illustrating the results of their research. (Prerequisite: MTR 345)	
MUA 201	0.5	Flute
MUA 203	0.5	Oboe
MUA 205	0.5	Clarinet
MUA 207	0.5	Saxophone
MUA 209	0.5	Bassoon
MUA 211	0.5	French Horn
MUA 213	0.5	Trumpet
MUA 215	0.5	Trombone
MUA 217	0.5	Euphonium
MUA 219	0.5	Tuba

Course	Credits	Title
MUA 221	0.5	Percussion
MUA 223	0.5	Harpsichord
MUA 225	0.5	Organ
MUA 227	0.5	Piano
MUA 229	0.5	Harp
MUA 231	0.5	Guitar
MUA 233	0.5	Violin
MUA 235	0.5	Viola
MUA 237	0.5	Cello
MUA 239	0.5	Bass
MUA 241	0.5	Voice
MUA 401	1	Flute
MUA 403	1	Oboe
MUA 405	1	Clarinet
MUA 407	1	Saxophone

Course	Credits	Title
MUA 409	1	Bassoon
MUA 411	1	French Horn
MUA 413	1	Trumpet
MUA 415	1	Trombone
MUA 417	1	Euphonium
MUA 419	1	Tuba
MUA 421	1	Percussion
MUA 423	1	Harpsichord
MUA 425	1	Organ
MUA 427	1	Piano
MUA 429	1	Harp
MUA 431	1	Guitar
MUA 433	1	Violin
MUA 435	1	Viola
MUA 437	1	Cello

Course	Credits	Title
MUA 439	1	Bass
MUA 441	1	Voice
MUSC 090	0	Music Convocation
Description:	This non-credit course meets once throughout the semester. It provides for experience of student recitals, guest recitals, music seminars and exchange. It also allows for similar experiences at other on-campus and off-campus events. Pass/Fail (Offered fall and spring semesters.)	
MUSC 101	3	Music Appreciation
Description:	This course is designed to assist students in the understanding and appreciation of a wide variety of musical styles which include classical and popular music. Open to all students. (Offered every fall.)	
MUSC 102	3	World Music
Description:	This cross-cultural course explores the diverse array of global music which represent the mainstream as well as the perimeter of the world's musical languages. Varied media, Internet, and live performances will be included. Open to students of all disciplines. (Offered every spring.)	
MUSC 105	1	Voice Class
Description:	Introduction to principles of correct vocal production through voice building and song literature. Required of all music students except those whose major performance area is voice. (Offered every spring)	
MUSC 106	1	Diction Class
Description:	Group instruction on the correct pronunciation and enunciation for singing classical music repertoire in the most commonly used global and native languages. These languages include French, Italian, German, and English. Required of all music students whose major performance area is voice. (Offered every spring)	
MUSC 107	1	Brass Methods
Description:	Overview of teaching procedures for beginning class instruction. Methods and techniques for learning basic performing skills on various brass instruments with applications for music teaching and learning theory. (Offered every fall)	
MUSC 108	1	Percussion Methods
Description:	Overview of teaching procedures for beginning class instruction. Methods and techniques for learning basic performing skills on various percussion instruments with applications for music teaching and learning theory. Required for Music Education and Music Therapy majors. (Offered every spring.)	
MUSC 117	1	Guitar Class
Description:	This course is designed to provide students with a functional and practical knowledge of fundamental guitar skills. These skills include basic techniques for chording, strumming, accompanying, picking, and reading guitar ligatures. This course is one opportunity for Music Education majors to prepare for passing the guitar proficiency exam (GPE) required by PDE. (Offered every fall)	
MUSC 118	1	Music Fundamentals
Description:	A thorough presentation of music essentials (assessment levels given by instructor): note-reading in all clefs, rhythmic development and usage, major/minor scale construction, intervals and inversions, basic triad construction and usage. Introduction to aural, vocal and written skills. (Co-requisites: MUSC 130,	

Course	Credits	Title
		MUSC 131) (Offered every fall.)
MUSC 119	1	Introduction to Music Educ
Description:		Diving into the fundamentals of teaching and planning, students learn how to write objectives based on music standards, plan and write a lesson that include assessment, teach a song by wrote and note, set long term planning goals, create higher level questions, and reach a variety of learners through music instruction.
MUSC 130	3	Music Theory I
Description:		Course includes a thorough but concise review of music fundamentals: elements of pitch and rhythm, scale patterns, intervals and inversions. Primary course work includes: structure of triads and sevenths chords, diatonic triads in major and minor keys, principles of voice-leading, examining the melodic line, part-writing with root position chords, principles of harmonic progression, use of sequential devices, and introduction to musical form. (Co-requisite: MUSC 131). (Offered every fall.)
MUSC 131	1	Aural Skills I
Description:		Classroom and computer-assisted ear-training will include basic melodic, rhythmic, and harmonic dictation. Sight-singing will focus on diatonic major melodies based on scalar patterns and on tonic, subdominant, dominant, supertonic, and leading-tone triads. The three forms of the minor scales will be introduced (Co-requisite: MUSC 130). (Offered every fall.)
MUSC 132	3	Music Theory II
Description:		Content includes: use of harmonic progressions with attention to root movement and sequential patterns; part-writing with inversions of triads and 7th chords; the study and identification of basic musical forms through analysis and composition; identification and use of non-chord tones as found in the harmonic /melodic texture of music; use of extended 7th chords in introduction to chromaticism, tonicization and secondary harmonic functions. (Co-requisite: MUSC 133) (Offered every spring)
MUSC 133	1	Aural Skills II
Description:		Classroom and computer-assisted ear-training will include increased melody length, varied meters, beat subdivisions, and patterns derived from secondary harmony. Sight-singing will emphasize both major and minor melodies and occasional chromaticism. Students will sing short chorale passages in four parts (Co-requisite: MUSC 132) (Offered every spring)
MUSC 134	1	Piano Lab for Non-Music Majors
Description:		Designed for the non-music major with emphasis on how to read music, coordinating two hands in playing the keyboard, understanding melodies, playing chords for popular music and learning how rhythm is contained within the piano as a percussion instrument. No Prerequisites. Course may be repeated. (Offered fall and spring semesters)
MUSC 135	1	Piano Laboratory I
Description:		Sequential development of functional piano skills with emphasis on keyboard and mechanics, technique, accompaniment styles, and style of Popular music. (Offered every fall)
MUSC 136	1	Piano Laboratory II
Description:		Sequential development of functional piano skills with emphasis on scales and chords of the major mode and an understanding of the cyclical relationship between melody and harmony. Popular music and fake books are utilized (Prerequisite: MUSC 135 or permission of the instructor). (Offered every spring)

Course	Credits	Title
MUSC 140	1	Intro to Music Technology
Description:	Students will be introduced to the department's Music Lab, its computers, keyboard access, technology and extensive software. First-year students will use Auralia and Practica Musica software for ear-training, sight-singing, theory drill, and keyboard development. Use of Sibelius musical notation software will facilitate creative and practical writing, and Garage Band will provide for a variety of musical usage.	
MUSC 180	0 OR 0.5	Chorale
Description:	Ensemble open to students of all disciplines and voice ranges (soprano, alto, tenor, bass). Participation fulfills large/primary ensemble requirement for students whose primary concentration is voice, guitar, or piano. (Offered fall and spring semesters)	
MUSC 181	0.5	Chamber Choir
Description:	Chamber Choir is a small ensemble open to all voices (SATB). Students explore an advanced repertory from a wide range of stylistic periods and cultures. Special focus is given to aural, vocal, and aesthetic elements, choral analysis, rehearsal technique, and performance. This small ensemble is open by permission of the instructor only, normally by audition. Students must show proficiency in reading music and singing with proper choral tone.	
MUSC 183	0.5	Piano Ensemble
Description:	Participation in Piano Ensemble will enhance piano skills for accompanying, sight reading, playing duets and literature for multiple pianos. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 184	0.5	Men's Chorus
Description:	This ensemble is the male vocal performance organization. It is open to male students of all disciplines in the university community. The Men's Glee Club will perform a diverse repertoire of music ranging from the classics to spirituals to more popular songs. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 185	0 OR 0.5	Symphony Orchestra
Description:	Ensemble open to all students who qualify by audition. Participation fulfills large/primary ensemble requirement for students whose primary performance area is an orchestral stringed instrument. (Offered fall and spring semesters)	
MUSC 186	0.5	String Ensemble
Description:	Ensemble designed to provide performing experience for instrumentalists majoring in violin, viola, cello, and string bass. Open to all students by audition. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 187	0.5	Woodwind Ensemble
Description:	Ensemble provides opportunities to rehearse and perform standard Woodwind Trio and Quintet literature. Open to all students by audition. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 188	0 OR 0.5	Concert Band
Description:	Open to students of all disciplines, this ensemble provides performing experience for instrumentalists majoring in brass, woodwind, and percussion. Participation fulfills large/primary ensemble requirement for students whose primary instrumental area is woodwind, brass, or percussion. Open to all students by audition. (Offered fall and spring semesters)	

Course	Credits	Title
MUSC 189	0.5	Saxophone Ensemble
Description:	Ensemble provides experience rehearsing and performing standard jazz ensemble repertoire. Open to all students by audition. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 190	0.5	Flute Choir
Description:	Ensemble provides an opportunity to rehearse and perform flute ensemble literature in a chamber music setting. Open to all students by audition. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 191	0.5	Brass Ensemble
Description:	Ensemble provides an opportunity to rehearse and perform standard brass ensemble literature from Gabrieli to contemporary literature. Open to all students by audition. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 192	0.5	Guitar Ensemble
Description:	Ensemble provides opportunities for both music and non-music majors to learn how to perform ensemble music for guitar. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 193	0.5	Percussion Ensemble
Description:	Ensemble provides opportunities to rehearse and perform standard percussion ensemble literature. Open to all students by audition. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 194	0.5	Jazz Ensemble
Description:	Ensemble provides opportunities to rehearse and perform Jazz Combo, Big Band, and Jazz Ensemble literature. Open to all students by audition. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 196	0.5	Trumpet Ensemble
Description:	Ensemble provides opportunities for students to perform a variety of trumpet repertoire to include fanfares, flourishes, and other standard repertoire from the Baroque, Classical, Romantic, and 20th-Century eras of music. Open to all students by audition. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 197	0.5	Clarinet Ensemble
Description:	Ensemble provides experience rehearsing and performing standard clarinet ensemble repertoire. Open to all students by audition. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 198	0 OR 0.5	The Chamber Ensemble
Description:	Open to students of all musical disciplines, this ensemble provides performing experiences for vocalists and instrumentalists. Chamber Ensemble is by audition only. Fulfills small ensemble requirement. (Offered fall and spring semesters)	
MUSC 200	1 TO 3	Special Topics in Music
Description:	Various topics in the field of music	
MUSC 202	1	Jazz Improvisation
Description:	This course is designed to be a theoretical and practical study of the art of Jazz Improvisation. Students will learn the basic and standard 12-bar blues progressions as well as other forms of Jazz Improvisation to include the study of jazz harmonies and rhythms. (Prerequisites: MUSC 132 and MUSC 133) Offered upon request.	

Course	Credits	Title
MUSC 207	1	String Methods
Description:	Overview of teaching procedures for beginning class instruction. Methods and techniques for learning basic performance skills on various orchestral string instruments with applications for music teaching and learning theory. (Offered every fall)	
MUSC 208	1	Woodwind Methods
Description:	Overview of teaching procedures for beginning class instruction. Methods and techniques for learning basic performing skills on various woodwind instruments with applications for music teaching and learning theory. (Offered every spring)	
MUSC 217	1	Overview of Music Education
Description:	Introduction to the broad scope of the Music Education profession. First-year Music Education majors will be presented with the basic concepts of instrumental, vocal, and general music components of K-12 school music programs. Students will become acquainted with services, requirements, and /or membership opportunities of supporting agencies and organizations, including the Pennsylvania Department of Education (PDE), the National Association for Music Education (NAfME), and the Pennsylvania Music Educators Association (PMEA).	
MUSC 230	3	Music Theory III
Description:	This course builds on foundations laid in Theory I and II. Content includes: secondary functions, chromaticism and altered chords within sequential patterns; modulation, shifting tonal levels and tonicization; various modulatory techniques; analysis of larger musical forms; mode mixtures; the augmented sixth chords and wide range of resolution potential. (Co-requisite: MUSC 231) (Offered every fall)	
MUSC 231	1	Aural Skills III
Description:	Classroom and computer-assisted ear-training will include medium to advanced melodic, rhythmic, and harmonic dictation. Sight-singing will incorporate chromatic and modulatory melodies with increasing attention to non-scalar passages. Rhythmic skills will extend to include asymmetrical and changing meters (Co-requisite: MUSC 230) (Offered every fall)	
MUSC 232	3	Music Theory IV
Description:	Having reached the close of the 19th century, this course moves in new directions. Content includes: enharmonic spellings, interpretations, and modulatory effects; new harmonic vocabulary and late 19th century tonalities; introduction to twentieth century music and Impressionism; new scale materials and chord structures; new concepts in sound, rhythm and meter; wholly new post-tonal approaches and directions. (Co-requisite: MUSC 233) (Offered every spring)	
MUSC 233	1	Aural Skills IV
Description:	Class and computer-assisted ear-training will be used to strengthen dictation skills with advanced melodic lines and harmonic progressions. Sight-singing will include advanced 3-4 part singing in major, minor, and modal excerpts, and melodic lines in various non-traditional scales, atonal, jazz, and contemporary styles (Co-requisite: MUSC 232). (Offered every spring)	
MUSC 235	1	Piano Laboratory III
Description:	Sequential development of functional piano skills with emphasis on improvisation, transposition, scales and chords in the minor mode (Prerequisite: MUSC 136 or permission of the instructor) (Offered every fall)	
MUSC 236	1	Piano Laboratory IV
Description:	Sequential development of functional piano skills with emphasis on song writing to given harmonic progressions, transpositions, fake book songs, accompaniment styles, chording and harmonization. Final assessment will be based on a cumulative perspective of all four semester of Piano Laboratories I to IV	

Course	Credits	Title
		(Prerequisite: MUSC 235 or permission of the instructor) (Offered every spring)
MUSC 239	1	Counterpoint
Description:		Study of 18th century polyphonic style. Development of skill in writing two-and three-part counterpoint. (Prerequisites: MUSC 232 and MUSC 233). (Offered every fall.)
MUSC 242	2	Composition
Description:		Application of compositional techniques in the writing of small musical works for voices and instruments. (Offered even spring semesters.)
MUSC 243	0 TO 1	Junior Recital
Description:		Recital in the major performance area during the junior year.
MUSC 300	3	HON: Special Topics
Description:		Taking a thematic approach to the study of music appreciation, students demonstrate how music reflects and deepens both individual and cultural understandings. Musical examples are presented within universally experienced social frameworks (ethnicity, gender, spirituality, love, and more) to help students understand how music reflects and advances human experience. Students engage with multiple genres (Western art music, popular music, and world music) through lively narratives and activities
MUSC 306	2	Orchestration
Description:		An introduction to scoring musical compositions for string, woodwind and brass ensembles will lead to scoring for the entire orchestra. A more focused knowledge of instrumental ranges timbres and capabilities is developed. Skill in instrumental transposition is reinforced and knowledge of effective scoring devices are presented for success in transferring idiomatic musical figurations. (Prerequisites: MUSC 232 and MUSC 233) (Offered every spring.)
MUSC 307	1	Vocal Pedagogy
Description:		This course will cover the various learning strategies for teaching private and group voice lessons. Course will address how to teach performance skills and techniques to voice performance majors and will include advanced diction training in the primary vocal languages. (Prerequisite: MUSC 106) (Offered even fall semesters.)
MUSC 308	1	Instrumental Pedagogy
Description:		This course will cover the various learning strategies for teaching private and group instrumental lessons. Course will address how to teach performance skills and techniques to orchestral, band, and keyboard musicians as part of a private instrumental studio. (Offered odd spring semesters.)
MUSC 313	1	Prof Orient in Music Education
Description:		Introduction to the methodologies, standards, and current issues of the music education profession. Course is taught in conjunction with directed observations in diverse music education settings. Fulfills EDU 310 requirement for Music Education majors (Offered every fall.)
MUSC 314	3	Music in the Elementary School
Description:		Principles, practices, and materials of classroom music education in levels kindergarten through six. Introduction to the Kodály, Orff, Dalcroze, and Gordon methods. Emphasis on voice as the primary instrument. (Offered every spring.)

Course	Credits	Title
MUSC 315	2	Music in the Secondary School
Description:	Principles, practices, and materials of music education at the secondary level. Emphasis on music learning theory and curriculum development. (Offered every fall.)	
MUSC 317	2	Basic Conducting
Description:	An introduction to the fundamental techniques for conducting instrumental and choral ensembles. Topics will include learning basic conducting patterns, use of the left hand, and fundamental technical/musical development with a baton. (Offered every fall.)	
MUSC 321	2	Advanced Conducting
Description:	This course will be an advanced application of basic techniques for conducting choral and instrumental music. Topics will include score study, rehearsal planning, rehearsal techniques, examples of repertoire, and interpretation of various musical styles as well as an opportunity to rehearse and conduct a large vocal and instrumental ensemble. (Prerequisite MUSC 317) (Offered every spring.)	
MUSC 332	0 TO 2	Senior Recital
Description:	Recital in the major performance area during the senior year. With permission of applied instructor, a full recital of 60 minutes can be taken for 2 credits. A recital of 30 minutes or a joint recital of 30 minutes each can be taken for 0 or 1 credit. (Offered fall and spring semesters.)	
MUSC 333	0	Piano Proficiency
Description:	All music majors must pass a Piano Proficiency Exam before graduation. This exam may be taken in sections or completed in a single session. The exam is typically pursued in the junior year and completed by the first semester senior year. MUSC 135, 136, 235, 236 assist with preparation for this exam. Pass/Fail. (Offered fall and spring semesters)	
MUSC 334	0	Guitar Proficiency
Description:	The Guitar Proficiency Exam is in response to the Pennsylvania Department of Education (PDE) requirement that all music certification candidates demonstrate functional performance skills in acoustic guitar. All music education majors must pass this exam, preferably prior to student teaching. MUSC 117 Guitar Class assists with preparation for this exam. Pass/Fail. (Offered fall and spring semesters)	
MUSC 341	3	WI:Music Hist I: Bach & Before
Description:	Survey of Western music including Medieval, Renaissance, and Baroque periods. Representative works will be studied, analyzed, and performed. (Prerequisites: MUSC 132 and MUSC 133) (Offered every spring)	
MUSC 342	3	WI:Mus Hst II:Classic&Romantic
Description:	Survey of Western music from Haydn and Mozart through Liszt and Wagner. Representative works will be studied, analyzed, and performed. (Prerequisites: MUSC 132 and MUSC 133) (Offered every fall)	
MUSC 344	2	WI: Seminar in Music
Description:	In-depth study of research for application to music therapy, music education, or other related fields. Emphasis on linkage of musicological styles through the creative process: ethics in research practices for music will be examined. (Prerequisite: MUSC 341, 342, and 441 or with permission of the instructor). (Offered every spring.)	
MUSC 391	3	Music for Exceptional Learners
Description:	Techniques, methods, and materials used in teaching music to exceptional learners with a wide range of	

Course	Credits	Title
		individual needs, especially as encountered in the inclusive classroom setting. This course develops skill and knowledge relevant to both music education and music therapy. Fulfills EDU 381 requirement for Music Education majors. (Offered every fall)
MUSC 395	2	Current Topics in Music Educ
Description:		In this final semester course, students reflect on their Student Teaching experiences, solidify their Philosophy of Music Education, prepare a professional portfolio, examine current trends in Music Education, and cover topics such as music copyright laws, new developments in music technology, and current research areas. Additional preparation for the PRAXIS exam and steps towards certification is presented. Guest speakers/alumni also introduce various topics and help foster a professional network. Pre-requisite: EDU 328 with grade C- or better.
MUSC 404	1	Semester Performance
Description:		This course will allow the student in the performance emphasis to have additional opportunities to be coached in performance and to perform in public. The course will help prepare the student for his/her culminating and required performance experience: Senior Recital. This course must be repeated for 6 semesters, beginning the sophomore year. (Offered fall and spring semesters)
MUSC 441	3	WI: Mus Hst III: 20th C Style
Description:		Survey of Western music beginning with Post-Romanticism and continuing through present day. Includes both classical and vernacular genres. (Prerequisites: MUSC 132 and MUSC 133) (Offered every spring)
NSLS 101	1	NSLS: Foundatns of Leadership
Description:		Covers the induction process, basic leadership skills, basic networking skills, and a carousel of speaker engagements.
NSLS 102	1	NSLS: Advanced Leadership
Description:		This Advanced Leadership program is designed to help you integrate your leadership development into your lifestyle. The combination of on-campus and online learning modules delivers a broader understanding of core leadership education and a hands-on, cross-disciplinary approach to leadership. Whether on campus or in our online cohorts, members have the opportunity to apply these new skills or understandings to everyday life and contribute more effectively to other projects and initiatives.
NSLS 103	1	NSLS: Executive Leadership
Description:		The Executive Leadership course is a personalized learning experience offered by The National Society of Leadership and Success (NSLS) that puts members on the forefront of innovative leadership development. Unlike other leadership development programs, NSLS takes members beyond a narrow focus of goalsetting to impacting and leading others. In our tailored programs, our coursework prepares leaders to understand and engage with contemporary issues of leadership: collaboration, creative problem-solving, communication, and personal and social action. Working on-campus or online, our programs are built around five leadership modules and prepare members to lead in the 21st century and drive meaningful change for themselves, others, and the world.
NUR 200	3	Nursing Concepts
Description:		Introduction to the profession of nursing from a historical and theoretical perspective. The roles of the baccalaureate generalist nurse within today's health care system are presented. (Prerequisites: CHE 100; BIOL 209 and 210; pre/co-requisite: BIOL 208. Special permission by the nursing division to take one other science course concurrently is required.)
NUR 202	0 OR 5	Fund of Holistic Nursing Pract
Description:		Emphasis on foundational nursing concepts and skills necessary for practicing holistic nursing care. Three credits of lecture; two credit hours are experiential learning in the nursing simulation laboratory

Course	Credits	Title
		(1 credit (average of 2 hours per week) and in a long-term care facility (1 credit (average of 3 hours per week)). (Prerequisite: NUR 200 and MATH 110; Pre/co-requisite: BIOL 205; Co-req: NUR 307. Special permission by the nursing division to take one other science course concurrently is required.)
NUR 210	3	Philosophy of Hardiness
NUR 300	1 TO 4	Special Topics in Nursing
Description:		As the Affordable Care Act (ACA) highlights specific topics relevant to the delivery of safe quality patient care in a changing health care environment, the special topics in professional and holistic nursing course is offered as needed.
NUR 304	3	Pharmacology
Description:		An overview of pharmacotherapeutic principles and the basics of pharmacokinetics and pharmacodynamics are presented. Students develop the necessary knowledge base and skills for safety in medication administration. The effects of drugs on different age groups and the nurse's responsibilities in drug therapy are explored. Legal and ethical issues will be examined. (Prerequisites: All 100 & 200 level science courses and NUR 200, 202 & 307; co-requisite NUR 308)
NUR 307	0 OR 4	Holistic Health Assessment
Description:		Introduction to the concepts of holistic health assessment of clients across the lifespan. Students develop assessment skills for the collection of subjective and objective data. Concepts, models and theories of health promotion, disease and injury prevention will be introduced. One credit is experiential learning in the nursing simulation laboratory. (Prerequisites: All required 100 and 200 level science courses, NUR 200 and MATH 110; pre/co-requisite: BIOL 205; co-requisite: NUR 202) 3 credits of lecture, 1 credit (average of 2 hours per week) of simulation laboratory.
NUR 308	0 OR 5	Holistic Nursing Care I
Description:		Introduction to concepts and principles associated with alterations in holistic integrity in the adult. Students will care for adults with selected acute health problems. Two credit hours are experiential learning in a variety of healthcare settings. (Prerequisites: All required 100 and 200 level science courses, NUR 200, 202 and 307; co-requisite: NUR 304) 3 credits of lecture, 2 credits (average of 6 hours per week) of clinical practice.
NUR 311	0 OR 5	Holistic Nursing Care II
Description:		Emphasis on concepts and principles of psychiatric/mental health nursing for clients across the lifespan. Two credit hours are experiential learning in a variety of healthcare settings. (Prerequisites: All required 100 and 200 level science courses, all required 200 level nursing courses, NUR 304, 308, and PSY324; co-requisite: NUR 314) 3 credits of lecture, 2 credits (average of 6 hours per week) of clinical practice
NUR 312	6	Profess & Holistic Nurs Pract
Description:		The course explores nursing as a profession examining its history, trends, and current role in the health care system. Critical reflective thinking as a basis for professional nursing is explored. The RN student using critical thinking skills identifies and examines concepts related to holism and holistic nursing theory. The application of this theory to self-care and nursing practice is emphasized. (Prerequisite or co-requisite: ENG 241)
NUR 314	0 OR 5	Holistic Nurs Care Chldbr Fmly
Description:		Introduction to the concepts and principles of nursing care of the childbearing and childrearing family. Issues in women's health, concepts of growth and development, and family-centered care will be emphasized. Three credit hours will be didactic with two credit hours of experiential learning in a variety of healthcare settings. (Prerequisites: All required 100 and 200 level science courses, NUR 304, 308, and PSY 324; co-requisite: NUR 311) 3 credits of lecture, 2 credits (average of 6 hours per week) of

Course	Credits	Title
		clinical practice.
NUR 333	3	Pathophysiology
Description:	This course will introduce students to pathophysiology and disruptions in normal body functioning in individuals across their lifespan. Objective and subjective manifestations of common health problems resulting from environmental, genetic, and stress-related maladaptation are assessed and analyzed. Assessment findings, diagnostic testing, and interventions for specific health problems are discussed. (Prerequisites: BIOL 208, 209, 210)	
NUR 336	3	Anthropology and Health
Description:	This course introduces anthropological theories, concepts, and methods used to examine health beliefs and practices of a variety of cultural groups in the United States and throughout the world. The course is designed to provide the practicing nurse with tools for effective delivery of health care to clients from different cultures. (Elective)	
NUR 340	0 TO 4	HON: Special Topics
Description:	This course introduces the student to concepts of holistic health assessment of clients across the lifespan. Students develop assessment skills for the collection of subjective and objective data. Concepts, models, and theories of health promotion, disease and injury prevention will be introduced. One credit is experiential learning in the nursing simulation lab. This course is augmented for honors program nursing students by development of video recorded physical examination sessions related to each body system examined and the complete physical examination.	
NUR 350	6	Holistic Health Assessment
Description:	This course builds on the RN students' prior knowledge and clinical experiences, and further develops comprehensive health history interviewing and physical examination assessment skills. The principles of health promotion and illness prevention are applied in the analysis of physical findings and health behaviors of the adult patient. Anthropological theories, concepts, and methods are introduced to provide the practicing nurse with transcultural tools to work with multicultural teams and skills needed to perform a comprehensive cultural assessment in order to deliver culturally competent nursing care to clients from various cultural groups. Laboratory practice of health assessment skills is included, as well as experiential learning. (Prerequisite: NUR 312)	
NUR 370	5	Nursing Research
Description:	The fundamentals of nursing research are introduced and developed through the critical reading of research studies and their application of evidence-based nursing practice. Students develop skills in the identification, interpretation, and use of research findings in its application to evidence-based practice. (Prerequisite: NUR 312; Pre or co-requisite: ORBH 325)	
NUR 404	3	WI: Nursing Research
Description:	The fundamentals of nursing research are introduced and developed through the critical reading of research studies and their application to nursing practice. Students develop skills in the identification, interpretation, and use of research findings, and their application to evidence based practice. (Prerequisites: All required 100 and 200 level science courses, all required 200 and all 300 level nursing courses, NUR 405, and NUR 410; Pre-or co-requisite: PSY 208; Co-requisite: NUR 408, and NUR 435)	
NUR 405	0 OR 6	Holistic Nursing Care III
Description:	This course will expand the student's knowledge and skills to care for adult clients experiencing complex alterations in holistic integrity. Three credit hours are experiential learning in a variety of healthcare settings. (Prerequisites: All prior 300 level nursing courses; co-requisite: NUR 410) 3 credits of lecture, 3 credits (average of 9 hours per week) of clinical practice.	

Course	Credits	Title
NUR 408	0 OR 5	Concepts of Public Health Nurs
Description:	Knowledge and concepts applicable to public health and aggregate care. Community assessment is emphasized. Two credits are experiential learning applying course concepts in a variety of community settings. (Prerequisites: All required 100 and 200 level science courses, all required 200 and all 300 level nursing courses, NUR 405, and NUR 410; co-requisite: NUR 404 and NUR 435) 3 credits of lecture, 2 credits (average of 6 hours per week) of clinical practice.	
NUR 410	3	Concepts Nursing Ldrshp & Mgmt
Description:	Theories and principles of leadership and management in health care environments will be examined and discussed. Health care policy, organizational mission and vision, strategic planning, legal/ethical issues, motivational and change theories are applied to health care systems. (Prerequisites: All required 100 and 200 level science courses, all required 200 and 300 level nursing courses; co-requisite: NUR 405)	
NUR 418	3	Holistic Health
Description:	This course expands the student's knowledge and practice in holistic nursing. The student analyzes and applies evidence-based research findings of integrative and alternative modalities to nursing care. (Elective)	
NUR 426	6	Leadership in Nursing
Description:	Theories and principles of leadership and management in health care environments will be examined and discussed. Health care policy, organizational mission, vision and strategic planning, legal/ethical concepts, legal/ethical issues, motivational and change theory are applied to health care systems. (Prerequisite: NUR 312)	
NUR 434	6	Holistic Care Chronically Ill
Description:	This course builds upon NUR 312 and expands the RN student's knowledge and practice in holistic nursing. The RN student applies and analyzes evidence-based research findings on integrative and alternative modalities to nursing practice. The RN students are guided to build on knowledge and holistic theories presented and to develop a holistic framework of care for the chronically ill and elders. Issues related to aging, role changes, vulnerability, stigma, ethics, advocacy, end of life care, and case management of elders and the chronically ill are addressed. (Prerequisite: NUR 312)	
NUR 435	0 OR 5	Prep for Professional Practice
Description:	Preparation for the role of a professional nurse. The course emphasizes preparation for NCLEX-RN® and independent clinical experience. (Prerequisites: All 100 and 200 level science courses; all required 200 and 300 level nursing courses, NUR 405, NUR 410, and THE 408; co-requisite: NUR 404 and NUR 408) 2 credits of lecture, 3 credits (average of 9 hours per week) of clinical practice.	
NUR 450	2	Capstone
Description:	This course is the culmination of the BSN program. In a capstone paper, students reflect on their learning and demonstrate synthesis of knowledge and attainment of the BSN program's learning outcomes. (Prerequisite: All prior nursing courses)	
NUR 451	6	Capstone in Public Health Nurs
Description:	Students consider the concepts and implications of community-oriented and community-based nursing care and investigate the factors that impact public health. Health problems and issues facing vulnerable populations and the various roles of the nurse in promoting community and public health are explored. Course objectives are achieved through service learning, community assessment, and health promotion programs. The structure of health organizations and the impact of this structure on national and global community health are explored. GUIDED FIELD EXPERIENCE REQUIRED (Prerequisite: All prior nursing courses)	

Course	Credits	Title
NUR 452	3	Environmental Health
Description:	Introduction to the concepts related to the health effects of environmental influences. The course explores the physiologic and developmental effects of exposure to physical hazards and biochemical substances, and the role of health care professionals in reducing potentially harmful exposures. (Elective).	
NUR 495	0	NCLEX Review Course
ORBH 303	3	Organizational Concepts
Description:	Students examine the formal and informal functions of organizations and analyze an agency or organization based upon a systems model. Students also explore and solve organizational problems using a step-by-step method. This analysis will be applied to students' research throughout the program, which typically is work-related.	
ORBH 307	3	Adult Develop & Life Assess
Description:	Introduction to adult development theory, linking these concepts to life through a process of individual reflection. Classical and contemporary adult development theories are examined to provide the paradigm for self-analysis and life assessment.	
ORBH 312	3	Intro to Applied Research
Description:	This course introduces students to the research design process and helps them write a well-structured, soundly presented literature review. The course will assist students in selecting a topic, researching and analyzing prior literature, and finally writing the literature review. In addition, emphasis will be placed on utilization of the American Psychological Association (APA) style. The course includes library orientation, investigation of campus resources, and an introduction to the writing center. (Pre/co-requisite: ORBH 303)	
ORBH 315	3	Capstone Proposal Design
Description:	This course provides an introduction to research and its tools designed to support students in meeting requirements of their capstone proposal. This course helps them write a well-structured, soundly presented thesis statement and conduct a literature review. Emphasis will be placed on utilization of the American Psychological Association (APA) style. The course includes library orientation, investigation of campus resources, and use of the writing center. (Prerequisite: ENG 242)	
ORBH 320	3	Rsrch & Analysis Using Stats
Description:	This course introduces students to the theoretical principles and practical applications of academic research with a focus on business. Students learn to form initial inquiry questions, locate and evaluate print and electronic sources, and summarize, paraphrase, and incorporate source material in written presentations using the APA citation format. (Pre/co-requisite: ORBH 312)	
ORBH 325	3	Rsrch&Anlysis Using Statistics
Description:	This course serves as an introduction to the research design process and its tools. Content includes research design, descriptive and inferential statistics using Google Sheets. Students are given the opportunity to critique research studies and discuss managerial decision-making.	
ORBH 350	3	Psychometrics: Employee Select
Description:	Examines the uses of psychological testing in employee selection, placement, and career development and includes the use of specific instruments as well as interviewing skills. The impact of legal and ethical issues on selection practices will be discussed.	
ORBH 352	3	Performance Assessment
Description:	Presentation of motivational practices in business and industry as well as current performance appraisal	

Course	Credits	Title
		theories and practices. Contemporary theories of motivation are discussed including need, cognitive and reinforcement theories. Effects of job enrichment, goal setting, incentive systems, and worker participation are examined.
ORBH 354	3	Performance Develop & Training
Description:		Considers the role of training and development in today's business environment including: learning styles, needs assessment, learning objectives, instructional techniques, and evaluation of training effectiveness.
ORBH 356	3	Managing Employee Stress
Description:		Examines the identification and management of stress factors which can impact employee health and productivity including: interpersonal relationships, time management, family crises, addiction issues, and the role of employee assistance programs.
ORBH 358	3	Conflict Resolut & Negotiation
Description:		Presents the diagnostic questions needed to understand a conflict and explores strategies available to manage the situation. Personal conflict management style will be identified and interpreted. Techniques for negotiation and mediation will be discussed.
ORBH 360	3	Personnel Mgmt & Development
Description:		Examination of relationships and issues in personnel administration and human resource development within the context of local, state, and federal government as well as private organizations' emergency management sectors. Topics covered include: personnel management, organizational development productivity, recruitment and selection, performance management systems, discipline, conflict negotiation/resolution and collective bargaining. (Course offered for Emergency Planning and Management majors.)
ORBH 390	3	Research Methodology
Description:		This course assists students in formulating a research problem statement, identifying its hypothesis, proposing a research design and formulating proposed intervention and analysis. Provides students the opportunity to conduct a professional presentation on their own research topics. (Pre/co-requisite: ORBH 320)
ORBH 395	3	Capstone Synthesis&Presentatn
Description:		The culmination of the capstone proposal sequence, this course assists students in identifying hypothesis, proposing research design, and formulating analysis and proposed intervention. The course requires students to complete the capstone proposal and conduct a professional presentation on their topic. The completed capstone proposal will be suitable to share with a potential employer or include within a post-graduate application. (Prerequisite: ORBH 315; Co-requisite: ORBH 325)
ORN 099	0	CAPS Success Seminar
PAM 201	3	Introduction to Public Admin
Description:		This course is intended to introduce students to the field of public administration. It will provide an overview of the theories and practices of governmental administration, discuss both traditional and emerging public sector management issues, and explore the role of administrators in the development and implementation of public policy.
PAM 300	3	State & Local Government Admin
Description:		This course provides students with an understanding of the structure and function of state and local governments in the United States. Students will explore local and state-level policy issues and

Course	Credits	Title
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administrative processes. They will also explore urban issues in the U.S. and discuss solutions to all of these challenges. Pre-requisite: POL 201

PAM 400	3	Public Administration Capstone
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Description: This capstone is the culmination for Public Administration majors and should be taken as the final course in a student's studies for the major. It is intended to synthesize all of a student's learnings in the field into one public-sector focused project. Students will work in groups with a public sector organization, such as a non-profit, or their local government. Pre-requisites: PAM 300, and PSY 208

PED 125	1	Freshmen Fitness
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PED 199	1	Ballroom Fitness
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PED 201	1	Golf
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PED 202	1	Fencing
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PED 203	1	Tennis
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PED 205	1	Badminton
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PED 216	1	Racquets and Paddles
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PED 218	1	Step Aerobics
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PED 219	1	Weight Training
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PED 220	1	Team Sports
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PED 221	1	Principles of Coaching
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PED 222	1	Yoga
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Course	Credits	Title
PED 223	1	Fitness through Martial Arts
PED 224	1	Fitness Swimming
PED 225	1	Water Aerobics
PED 226	1	Pilates
PED 227	1	Triathlon Training
PED 228	1	Basketball
PED 229	1	Irish Dancing
PED 230	1	Advanced Strength Training
PED 231	1	Kickboxing
PED 232	1	Zumba
PED 233	1	Balletone
PED 234	1	PiYo
Description:	PiYo is a hybrid, athletic workout which combines the mind/body practices of Pilates and yoga, as well as the principles of stretch, strength training, conditioning, and dynamic movement. The class is a combination of various styles of Pilates and yoga in continuous movement and flow from one exercise to another.	
PED 250	1	Aquatic Fitness
PED 301	1	Aerobic Activities

Course	Credits	Title
PED 304	1	Aerobic Dance
PED 306	1	Jazz Dancing
PED 307	1	Creative Movement&Modern Dance
PED 308	1	Folk and Square Dance
PED 310	1	Ballet
PED 313	1	Cardio Fitness
PED 314	1	Tap Dance
PED 315	1	Self Defense
PED 316	1	Rhythmic Activs & Social Dance
PED 317	1	Personal Fitness
PED 318	1	Barre
Description:	All Physical Education courses aim to improve physical health by focusing on one or more component of fitness: cardiovascular health, muscular strength and endurance, balance, and/or flexibility. Some courses are sports specific and will also increase skills in that sport. All courses require students to complete 10 hours of activity and several small academic assignments to receive credit for the course. This course will use Barre methods to improve health. Barre is an exercise method drawing from Yoga, Pilates, and Ballet Dance, emphasizing small, pulsing movements with emphasis on form, alignment and core engagement.	
PED 319	1	Pickleball
PED 320	1	Yoga for Athletes
PED 321	1	Plyometrics & Core Training

Course	Credits	Title
PED 322	1	Intermediate Fencing
PED 325	1	Boot Camp
Description:	This class provides the student with the appropriate interval training techniques that mix calisthenics and body weight exercises to strengthen the body through adaptations made through a variety of exercises and training methods. As a result of the class, the student will improve his/her general physical fitness and skill performance while learning principles of the benefits of interval training.	
PED 326	1	Yoga II
Description:	The purpose of this class is to provide the student with the appropriate knowledge and skills in yoga beyond the beginner's level. As a result of the class, the student will improve his/her general physical fitness and skill performance while learning principles, techniques and safe practices of yoga. The advanced yogic principles of pranayama (breath control), asana (posture), relaxation and meditation will be explored.	
PED 327	1	Speed and Agility
Description:	All Physical Education courses aim to improve physical health by focusing on one or more component of fitness: cardiovascular health, muscular strength and endurance, balance, and/or flexibility. Some courses are sports specific and will also increase skills in that sport. All courses require students to complete 10 hours of activity and several small academic assignments to receive credit for the course. This course will implement various training techniques to increase speed, agility, and overall sports performance.	
PED 328	1	Speed and Agility - Advanced
Description:	All Physical Education courses aim to improve physical health by focusing on one or more component of fitness: cardiovascular health, muscular strength and endurance, balance, and/or flexibility. Some courses are sports specific and will also increase skills in that sport. All courses require students to complete 10 hours of activity and several small academic assignments to receive credit for the course. This course will implement various advanced training techniques to increase speed, agility, and overall sports performance, building upon those learned in PED327.	
PED 402	1	Swimming
PED 404	1	Life Saving Certif (ARC)
PED 405	1	Teaching Aids
PHI 100	3	Intro to the Liberal Arts
Description:	In this course, learners study the organization and classification of knowledge in the liberal arts, as well as basic philosophical concepts and themes as expressed in various disciplines. Students apply philosophical concepts, and engage various methods of argumentation while considering contemporary personal and professional issues. (CAPS only; students who have taken PHI 101 may not take PHI 100)	
PHI 101	3	Intro to Phi: Hist Survey I
Description:	Philosophy is the "love of wisdom", and it begins with the act of wondering, of asking questions that matter for your life. In this course, you will wonder actively as did the great philosophers of ancient and medieval times. You will examine key themes that provide a firm foundation for further philosophical and professional studies – and for life! (Students who have taken PHI100 may not take PHI 101.)	

Course	Credits	Title
PHI 103	3	Intr Philosophy:Hist Survey II
Description:	How great it is to stand on the shoulders of giants of the past as we navigate the 21st century! An exploration of the great minds and the great ideas of thinkers from Descartes to Derrida expand our thoughts and provide inspiration. In this course, you will study (and match wits!) with great thinkers in the Western philosophical tradition from the early modern through post-contemporary periods.	
PHI 200	1 TO 3	Special Topics in Philosophy
Description:	Selected topics in philosophy. Topics will rotate based on student and faculty interest.	
PHI 205	3	C.S. Lewis
Description:	As one of the most widely read authors of all time, C.S. Lewis' influence and readership continue to grow. An Oxford-Cambridge don, literary critic, philosopher, theologian, and agnostic who reluctantly turned Christian, Lewis wrote short stories and novels (fantasy, science fiction, mythology, children's books), poetry, theology, philosophy, biblical commentary, and social criticism, among others. He wrote in the most rational, clear, vivid, and even exciting manner by weaving together the rational and imaginative. Lewis displays profound insights into the human psyche, the world, God, suffering and evil, happiness, the meaning of life, and how to live as authentic human beings. The course explores the timeless truths in Lewis' writings that we urgently need to survive and flourish as we navigate our modern cultural milieu.	
PHI 208	3	Liberal Studies Colloquium
Description:	What is the relationship between the Liberal Arts and an individual's pursuit of career and professional planning? The Liberal Studies Colloquium enables students to see how skills needed for the 21st century job market are developed in the Humanities and Social Sciences disciplines. While examining approaches to knowledge and intellectual inquiry through selected texts, students will create an electronic portfolio with written assignments and projects that will support their academic and career development. (Prerequisite for PHI 400 Capstone Project)	
PHI 209	3	Introduction to Logic
Description:	How do we distinguish good from bad reasoning; sound and cogent arguments from fallacious ones? How can we construct logically compelling arguments and avoid erroneous ones? This is the domain of logic, the study of reasoning and arguments. This course cultivates thinking skills useful for any area that values careful analysis to assess truth, value, practicality, and efficiency. You will become familiar with basic formal and informal logical concepts, as well as with common logical fallacies. As you become adept at these concepts, you will engage in logically consistent and coherent reasoning, as reflected by the clear and rational arguments that you construct.	
PHI 215	3	Edith Stein and Phenomenology
Description:	An in-depth analysis of the life and work of Edith Stein, a German philosopher who studied under Edmund Husserl. Stein's German, Jewish, feminist, Catholic, and Carmelite experiences are woven into the fabric of her philosophy. In this course, students are introduced to phenomenology and to Edith Stein. The life and works of Edith Stein are explored.	
PHI 220	3	Global Econ & Environ Ethics
Description:	As world citizens in the 21st century, how can we think ethically about the environment and its impact on global economics? What are the environmental and cultural ramifications involving world energy and its economic influences? In this course, you will examine environmental and global economic issues, apply ethical paradigms, and propose positive actions and solutions as you navigate reality.	
PHI 221	3	Richness of Asian Philosophies
Description:	Distinct from Western Philosophy, Asian Philosophy is immersed in the lived experience of the people, their customs, and their culture. In this course, you will study the major themes and texts that form the basis for an introduction to Hinduism, Buddhism, Confucianism, and Taoism. You will explore the rich practices and traditions that reflect Asian thought and that influence our global society today.	

Course	Credits	Title
PHI 225	3	Major Questions
Description:	What does it mean to live as a human being? You will investigate some of the most fundamental questions about our human nature, the world that we are placed in, and how to live in it successfully. The representative issues you will explore include: Can you really know anything? Are we essentially material organisms or is there something more like soul? How do we make sense of death? What does it mean to live a good life? Does God exist? How do we explain evil and suffering in the world? Is there meaning to life? If so, what is it? As you analyze these issues, you will develop critical and debating skills that are essential for both academic and personal life.	
PHI 226	3	HON: Justice Matters
Description:	This course introduces students to the principal theories of justice that have developed within the Western philosophical and theological traditions. Students will relate these theories to a variety of contemporary social and political problems (e.g., poverty, systematic racism, human rights, ecological justice, etc.) in order to gain a better understanding of the requirements of justice in our time.	
PHI 300	3	HON: Special Topics
Description:	This designation is for courses offered as electives in the Undergraduate Honors Program, and may include both Honors-only courses and augmented Honors versions of courses that are offered elsewhere in the catalog. Courses have limited enrollment and content reflects Honors Program course outcomes around rigorous critical engagement, interdisciplinarity, effective communication, and meaningful collaboration.	
PHI 312	3	Ethics
Description:	Is there such a thing as right and wrong? How do you know if you're a good person? Is ethics about following rules? Doing your duty? Bringing about the greatest good for the greatest number? Obeying God? Developing virtue? These are the kinds of burning questions that ethics investigates. The study of ethics concerns the nature of action, motivation, consequence, and personal character. You will be introduced to the key issues and theories in ethics. You will trace the historical development of various ethical theories, as well as learn how to apply these theories to contemporary problems in ethics.	
PHI 326	3	Women Thinkers
Description:	Women are not new to the philosophical scene. In this course, you will read the work of women thinkers who have influenced the development of philosophy. You will explore classic texts in feminist thought and continue the analysis of the role of gender in the construction of various academic and theoretical frameworks, including literature, science, epistemology, psychoanalysis, and social theory.	
PHI 328	3	Artificial Intelligence
Description:	Students are provided with a general introduction to philosophy of mind and its implications for artificial intelligence (AI), allowing them to explore topics ranging from the nature of consciousness, the mind/body problem, personal identity, intelligent and complex adaptive systems, to robotics and related ethical questions. The course utilizes a historical, thematic, and multi-media approach which extends to interdisciplinary components from biology and neuroscience.	
PHI 338	3	Philosophy and Film
Description:	What is it about a film that brings us back to it? Sure, it might be the actors or the plot or the action scenes or – maybe, just maybe -- the philosophical themes that capture our attention and compel us to think about “big questions.” In this course you will consider, through your experience of different genres, styles, and techniques, how film enhances and/or alters our view of life. For this course, think not just “Light” but “Life, Camera, Action!”	
PHI 339	3	God, Darwin, Einste & Big Bang
Description:	How does Big Bang cosmology and Darwinian evolution impact our philosophical and theological views on the nature of reality? How can these predominant scientific views integrate the Catholic philosophical tradition? The course invites you to examine some of the major developments in biological and physical sciences, to analyze their implications through reading prominent scientists, philosophers and	

Course	Credits	Title
		theologians, both historical and contemporary.
PHI 340	3	Aesthetics-Search for Beauty
Description:	Beauty surrounds us – but we often miss it. In this course, you will learn different theories and immerse yourself in many expressions and experiences of beauty. Ultimately, you will define beauty in your terms and support your definition with theories and concrete examples. The goal? To recognize the beauty that surrounds us.	
PHI 350	0.5 TO 3	Special Studies in Philosophy
Description:	Special course for students and faculty interested in topics not usually offered; tutorials, independent study, and research.	
PHI 384	3	Organizational Ethics
Description:	Several major ethical theories are reviewed. Students examine personal values through readings and workplace analysis to consider management accountability, human rights, and a responsible lifestyle in the contemporary world. (Offered only in ACCEL® format)	
PHI 400	3	Capstone for Liberal Studies
Description:	Students completing a BA in Liberal Studies come from many diverse and varied disciplines and they evidence proficiency in a variety of specific skills that equip them to take their place in society. This multidisciplinary capstone course enables students to hone and showcase their respective disciplines and skills. Students will apply these skills to contemporary issues selected from a range of social and civic topics. (BA in Liberal Studies students only.)	
PHM 100	3	History of Public Health
Description:	Covid-19 has thrust Public Health into the spotlight, but the domain of public health includes many critical issues, including mental health, obesity, and gun violence. From the first quarantines to the modern movement towards universal health care, public health has fundamentally shaped societies. In this course, you'll learn the role of the state in public health, the importance of public health, and how it's provided and practiced. This online class has optional live sessions	
PHM 301	3	Health Services
Description:	Health Services - the means by which healthcare is provided - is a critical concept in Public Health that impacts all of us. This course will introduce you to the modern history of healthcare in high, middle, and low income countries and explore the evolution of health services. Students will evaluate the strengths and weaknesses of particular systems and policies and examine their ideal version of a health service in the context of current events. This online class has optional live sessions.	
PHM 302	3	Epidemiology
Description:	Epidemiology is the branch of medicine which deals with the incidence, distribution, and control of a disease. In this course, you will learn and apply key concepts of epidemiology to multiple domains of public health. By the end of this course, you'll be able to use epidemiology to better understand, characterize, and promote health at a population level.	
PHM 303	3	Health Economics
Description:	The field of public health is driven by economics as much as it is by epidemiology. This course will teach you about health economics, which is the application of economic principles and techniques of analysis to health care in support of the public good. By the end of this course you will learn how to analyze the effectiveness of health policy outcomes through an economic lens, and how to use available resources to improve the quality of healthcare.	

Course	Credits	Title
PHM 400	3	Public Health Studies I
Description:	This course is intended to provide students with a means of evaluating the health impact of political decisions and a broad knowledge base about the practice of Public Health today. Students will explore a range of current topics in public health - including COVID-19, HIV/AIDS, and the obesity epidemic. Students will also look at the impact of US politics on global public health, especially in developing nations. Furthermore, this course will explore key topics such as the WHO's Millennium Development Goals, the disastrous circumstances that can arise when Public Health Policies fail, and the conflict between data and political will that drives so much of Public Health policy decision making. This course culminates in a project in which students must plan a Health Impact Assessment of a current or proposed federal or state policy.	
PHM 401	3	Public Health Studies II
Description:	This course provides students with a variety of tools for understanding the impact that disease or other Public Health concerns may have on a population. Students will learn how to design effective surveys, analyze geographic data, and use qualitative information with the ultimate goal of gaining a better understanding of how events may affect the health of a particular population. This course will also require students to participate in a mapathon in order to help them build understanding of how geographic data is used in the practice of Public Health.	
PHY 110	0 OR 4	Physics for Everyday Life
Description:	Introduces non-science majors to the basic concepts of physics and demonstrates the role physics plays in everyday activities. Demonstrations, virtual labs and hands-on activities allow for the exploration of the world of physics from Galileo to Einstein and beyond. (no prerequisites necessary)	
PHY 152	0 OR 4	General Physics I
Description:	Algebra-based course in the fundamental principles of translational, rotational, and vibrational mechanics: motion in one, two, and three dimensions, Newton's laws, energy, momentum, statics, and periodic motion. 3 hours of lecture and 2 hours of laboratory are integrated with student problem solving in a studio format. (Prerequisite or co-requisite: MATH 203-204 or MATH 207-208)	
PHY 153	0 OR 4	General Physics II
Description:	Algebra-based course in the fundamental principles of heat, sound, light, magnetism, electricity, relativity, and quantum theory. 3 hours of lecture and 2 hours of laboratory are integrated with student problem solving in a studio format. (Prerequisite: PHY 152 or equivalent; Prerequisite or co-requisite: MATH 203-204 or MATH 207-208).	
PHY 203	0 OR 4	Physics I
Description:	Calculus-based course in the fundamental principles of translational, rotational, and vibrational mechanics: motion in one, two, and three dimensions, Newton's laws, energy, momentum, statics, and periodic motion. 3 hours of lecture and 2 hours of laboratory are integrated with student problem solving in a studio format. (Prerequisite or co-requisite: MATH 207-208)	
PHY 204	0 OR 4	Physics II
Description:	Calculus-based course in the fundamental principles of heat, sound, light, magnetism, electricity, relativity, and quantum theory. 3 hours of lecture and 2 hours of laboratory are integrated with student problem solving in a studio format. (Prerequisite: PHY 203 or equivalent; Prerequisite or co-requisite: MATH 207-208)	
PHY 300	1 TO 3	Topics in Physics
Description:	A study of selected topics outside the usual offerings in physics. (By prior arrangement with a member of the department.)	
PHY 305	3	Electricity and Magnetism
Description:	Electrical and magnetic properties, direct and alternating circuits, introduction to Maxwell's equations.	

Course	Credits	Title
		(By prior arrangement with a member of the department.)
PHY 310	0 OR 3	Modern Physics
Description:	A survey of the topics of modern physics, including: historical basis, relativity, introductory quantum mechanics, atomic, nuclear, and molecular structure, solid state, and elementary particles. (By prior arrangement with a member of the department.)	
POL 200	1 TO 3	Special Topics in Politics
POL 201	3	American Politics and Governmt
Description:	A survey of the function (and dysfunction) of politics and government in the United States. Topics include parties, elections, public opinion, and public policy, in addition to formal governing institutions (the relations of the federal, state, and local governments; separation of powers; checks and balances; the relationship between civil and political rights under the Constitution).	
POL 202	3	Comparative Government
Description:	A comprehensive comparative study of the social and cultural bases of politics, political parties, government, and public policy in several Western and non-Western nations.	
POL 203	3	The American Presidency
Description:	Examination of the growth of the executive as the focal point of leadership in the American political system.	
POL 204	3	Western Political Thought
Description:	Examination of the great political theorists who have affected the growth of the modern concepts of the state, freedom, democracy, and human rights.	
POL 206	3	International Relations
Description:	Theoretical models and basic concepts in international relations; e.g., power, diplomacy, negotiation, sovereignty, balance of power, national interest, the decision-making process in the formulation of foreign policy.	
POL 208	3	The American Judiciary
Description:	Examines the role of the courts as actors in the American political system. Course elements will critically engage with the history and politics of the judicial system, the role of laws in politics and society, and the structure and functioning of judicial institutions to include the politics of judicial selection, nomination, and election. Both federal and state court systems will be considered.	
POL 211	3	Violence
Description:	Examines the origins, nature, and impact of violence in American society from a variety of disciplinary perspectives.	
POL 216	3	Politics of Film
Description:	Examines the role of films and film making in political discourse, and uses representations of political issues on film as an opportunity to engage with contemporary issues. The construction of reality, cultural conflict, gender roles, economic change, race, love, sexuality, crime, and other issues receive attention as key themes of the modern age.	

Course	Credits	Title
POL 218	3	Legislatures in the US
Description:	The role of legislatures in the political system, including the US Congress and state/local legislative bodies. Particular attention is paid to the legislative process, its structural elements, and the politics of legislating. Simulations may be used to reinforce key content.	
POL 223	3	Urban Am & R Catholic Church
Description:	Explores the role that the Roman Catholic Church played in influencing governmental policy in relation to urban affairs at the local, state and federal levels, and how these events, in turn, caused the church itself to change.	
POL 228	3	Philadelphia Politics
Description:	An examination of the political and social development of the City of Philadelphia with particular emphasis placed on recent political leaders beginning with the reform mayors, Clark and Dilworth, continuing through Tate, Rizzo, Green, Goode, Rendell and Street.	
POL 230	3	Irish-American Political Exp
Description:	Examines the evolution of the Irish-American community in the United States in light of the nation's political development with an emphasis upon the period from the Civil War forward. Special attention will be paid to the role of the urban political machine, portrayals of Irish ethnicity and their political effects throughout U.S. history, and the role of Irish-Americans in lobbying for change in Northern Ireland.	
POL 232	3	Industrial East Asia
Description:	East Asia has been an important part of the world economy since ancient times. China's advanced economy provided many goods - both luxuries and practicalities - to foreign lands. The rapid industrialization of the West in the Nineteenth Century reversed the relationship, with the Asian market taking an important place in world trade. Belatedly, Japan, then China, then other Far Eastern countries began their own industrialization. These countries have been so successful that political power has followed on economic power. Now, China, Japan, the United States, and the European Union are entangled in a complex relationship. That relationship mixes competition with cooperation, and envy with ambition. Understanding something of the economy, society, and politics of "Industrial East Asia" is now and will remain in your lifetimes essential for business, travel, and informed citizenship.	
POL 233	3	American Public Policy
Description:	Combines theory, case studies, and historical analysis to see how particular issues are included on the government agenda, how policy then is shaped, and what impact policies actually have. Issues studied will be drawn from the broad categories of health care, economic policy, science and environmental regulation, and social problems: poverty and welfare, racial divisions, crime, generations.	
POL 246	3	Middle East History & Politics
Description:	A study of the historic forces that have shaped the contemporary Middle East, and an analysis of the region's significance in international politics including basic principles of Islam, Arab culture, and the influence of new forces in the Middle East.	
POL 247	3	Russia: Politics and People
Description:	Historical forces shaping the Russian identity and institutions; the rise and fall of the Communist regime, and contemporary developments in Russia.	
POL 300	3	HON: Special Topics
Description:	This designation is for courses offered as electives in the Undergraduate Honors Program, and may include both Honors-only courses and augmented Honors versions of courses that are offered elsewhere in the catalog. Courses have limited enrollment and content reflects Honors Program course outcomes around rigorous critical engagement, interdisciplinarity, effective communication, and meaningful collaboration.	

Course	Credits	Title
POL 305	3	Urban Politics & Policy
Description:	An analysis of administrative and political systems in local/regional population centers, and an interdisciplinary examination of the economic, political, and social dynamics of cities large and small. Student participation in urban fieldwork available.	
POL 307	3	Public Opinion & Propaganda
Description:	This course explores the role of information and discourse in social and political life. Students will engage with ongoing political and social debates, and discuss structures and patterns in the creation and dissemination of news and information.	
POL 311	3	Lobbying and Influence
Description:	Explores the roles that parties, interest groups, and social movements play in forming public policy and shaping public opinion. Examination of the political environment is paired with discussions of the formal and informal structures and functions of political actors and organizations. Case studies and simulations may be used to reinforce course content.	
POL 312	3	WI: Cyber War and Cyber Peace
Description:	Examines the role of computers, the Internet, and telecommunications in and as the subject of international affairs.	
POL 315	3	Political Leadership & Ethic
Description:	Provides a foundation for the discussion of principled political leadership (in both private and public organizations) and discussions of the role of ethics and trust in the political sphere. Case studies and simulations are utilized to highlight key points in the course.	
POL 316	3	Internatn'l Political Economy
Description:	Examines international economic relations and the functioning of the global economy, both of which have significant political dimensions and importance. Both theoretical frameworks and international organizations (WTO, EU, IMF) will be utilized to enhance students' analytical skills on various questions of global politics.	
POL 317	3	The Politics of Jurisprudence
Description:	An examination of the appointment process to the federal court system, the role of a federal judge, and the intellectual challenges Supreme Court Justices face in their development of a method of constitutional meaning. Original writings from Supreme Court Justices will be used to explore these issues.	
POL 318	3	American Political Thought
Description:	An examination of the development of political thought in the United States centered around themes such as liberty, justice, manifest destiny, and the melting pot. Special attention will be paid to such thinkers as Jefferson, Franklin, Madison, Hamilton, Tocqueville, Calhoun, Lincoln, James, Emerson, Thoreau through to modern thinkers such as Dewey, King and Berry.	
POL 320	3	Environmental History & Policy
Description:	Examination of the relationship between humans and their environment, and the political, social and economic consequences of that relationship. Interdisciplinary in its approach, the course draws upon the disciplines of history, the social sciences, the hard sciences and even literature, at times, to develop an understanding of the role of the environment in the development of American history. Pre/Co-requisite: POL 233	
POL 322	3	National Security & Foreign Pol
Description:	Explores the past and present challenges and decisions of US national security and foreign policy decisions, and considers both the decision-making environment and the results of specific policy	

Course	Credits	Title
		decisions by individuals and institutions. US policymaking on national security, military and economic interventions, global human rights and environmental issues may be considered. Case studies and simulations will highlight key course content.
POL 329	3	Campaigns & Elections
Description:		American campaigns and elections from the nomination process through the general elections. Pays particular attention to campaign finance, research, polling, advertising, and media.
POL 334	3	Justice and Human Rights
Description:		An examination of justice and human rights in domestic and international civil society, in areas including social justice, criminal codes and enforcement, civil and international conflict, economic justice and poverty, and climate change. Both American and international cases will be examined.
POL 336	3	International Law
Description:		Introduce students to the basic principles of international law. Provides a greater understanding of the international legal system and some of the current challenges facing the international community. The course will also provide an understanding of the evolving and primitive nature of international law and the institutions that administer them within the broader context of global politics and international relations.
POL 337	3	Irish Politics
Description:		Examination of the development of the Irish constitution, political institutions and political parties since the emergence of the Irish Free State in the early twentieth century. Special attention will be paid to the Oireachtas (parliament) and the role of the Taoiseach (prime minister), the development of party and electoral systems, and the changing role of Ireland in relation to Northern Ireland, the European Union and the larger world.
POL 338	3	American Constitutional Law
Description:		The study of the impact of the Supreme Court's power of judicial review upon the American system of government. Specific topics include the court's effect upon federalism, the separation of powers, and the civil rights of free speech, press, and religion.
POL 339	3	Public Administration
Description:		Study of the administrative process. Emphasis is on judicial review and the relationship of agencies to the executive and legislative branches of government and to public and private interest groups.
POL 340	3	Contemp Constitutional Issues
Description:		This is an advanced seminar for students who have already completed American Constitutional Law and will focus on current and upcoming Supreme Court cases to examine their implications for constitutional law and American politics in the future. The precise focus will depend on the most pressing and timely issues facing the Court, and selection and discussion will be largely student-driven.
POL 352	3	Nursing and the Law
Description:		Overview of the current legal structure of the health care system, including informed consent, medical ethics, malpractice, elder and insurance law, nurses and litigation, and health care risk management.
POL 354	3	Leading in Crisis
Description:		The goal of this course is to provide learners with a thorough understanding of the strategic, political, legal and organizational challenges associated with leading in times of crisis. The course addresses the implications and challenges of policy across local, state, and federal governments, as well as constitutional rights, legal protections, and civil liberties. Several case studies are examined that have

Course	Credits	Title
		implications for political and business leaders.
POL 371	3	WI: Thesis Research I
Description:		Preparation for writing and defense of an original research project (thesis), entailing a review of social science research methods and examination of a student-selected topic to be explored in greater depth in POL 415. Students will prepare a detailed annotated bibliography/literature review and research design for use in research for the thesis (completed in POL 415). POL 371 and POL 415 should be completed in consecutive fall/spring semesters in either the Junior or Senior year. HIST 371 may be substituted with the permission of the department/program chair.
POL 415	3	WI: Thesis Research II
Description:		Writing and defense of an original research project (thesis). Formal oral presentation to the seminar class (open to the academic community), followed by submission of a polished scholarly paper. POL 371 and POL 415 should be completed in consecutive fall/spring semesters in either the Junior or Senior year. HIST 415 may be substituted with the permission of the department/program chair.
PSY 101	3	Foundations in Psychology
Description:		Introductory examination of the fundamental concepts of psychology with particular emphasis on the description of normal human behavior, the methodology by which it is studied, and the factors influencing its modification.
PSY 200	1 TO 3	Special Topics in Psychology
PSY 204	3	Adolescent Development
Description:		Examination of adolescent development from middle childhood through young adult in each of the following areas: physical growth, cognitive and language development, and social/emotional changes. The course integrates major theoretical approaches to development and shows how each applies to the various developmental stages.
PSY 205	3	Child Development
Description:		Examination of child development from the prenatal stage through age 10 in each of the following areas: physical growth, cognitive and language development, and social/emotional changes. The course integrates major theoretical approaches to development and shows how each approach relates to each developmental stage.
PSY 206	3	Cross-Cultural Psychology
Description:		Covers many aspects of the intersection between culture and psychological phenomena, including development, cognition, communication, social behavior and psychopathology, with special emphasis placed on non-Western cultures.
PSY 208	3	Statistics
Description:		Fundamental concepts of statistics for the behavioral sciences: measures of central tendency and variability, transformed scores, the normal distribution, probability, tests of significance, correlation, regression, chi square, and analysis of variance.
PSY 217	3	Career Planning
Description:		The study and application of the necessary skills for comprehensive career planning. These include: self-assessment, career decision-making, resume preparation, interviewing and job search techniques.

Course	Credits	Title
PSY 219	3	Applied Psychology
Description:	Application of psychological principles to professions directly concerned with human behavior. Special emphasis on the various positions psychologists fill in: business and industry, consumer research and advertising, law and government, education, health management, sports and athletic performance, and the social services.	
PSY 250	3	Health Psychology
Description:	Examines the compelling connection between the mind and the body in issues of wellness. Special emphasis on how anger, worry, loneliness, conflict and stress can increase susceptibility to illness. Additional focus on how optimism, humor, physical fitness, spirituality and hardiness can fortify the immune system and improve health.	
PSY 300	3	HON: Special Topics
Description:	This designation is for courses offered as electives in the Undergraduate Honors Program, and may include both Honors-only courses and augmented Honors versions of courses that are offered elsewhere in the catalog. Courses have limited enrollment and content reflects Honors Program course outcomes around rigorous critical engagement, interdisciplinarity, effective communication, and meaningful collaboration.	
PSY 303	3	Principles of Psych Testing
Description:	Study of basic criteria which an authentic psychological test is expected to meet: standardization, reliability, and validity. Description of most prominently known tests of intelligence, achievement, aptitude, and personality.	
PSY 307	3	Social Psychology
Description:	Examines the scientific study of social behavior. Students will be challenged to investigate and critically think of such interesting human topics as: the intrigue of personal attraction; the accuracy of impressions, the emotional sources of persuasion, conformity, prejudice; and altruism; and finally the influence of personal attitudes and beliefs on social behavior.	
PSY 311	3	Brain and Behavior
Description:	Provides a broad overview of the relationship between brain function and behavior. Topics include basic brain anatomy and neural transmission; the neurobiology of sensation and perception, motivated behaviors, learning and memory, reward, pain, attention, sleep, stress and emotions; and what happens when brain function goes wrong (i.e., neurological and psychological disorders). By the end of this course, students should be able to evaluate claims made about brain research and function, and have a richer understanding of how people behave the way they do.	
PSY 312	3	Theories of Personality
Description:	Study of diverse theoretical approaches to understanding personality; review of current assessment and research methods employed in the study of the person.	
PSY 313	0 OR 3	Experimental Psychology I
Description:	Examines the steps of the research process, in particular research design, using various methods of psychological research. Students will review and write research reports and develop skills in the critical analysis of research design. Students will begin an original Experimental Research Study (ERS) to include research questions, problem identification and literature review. (Prerequisites: PSY 101, 208)	
PSY 314	0 OR 3	WI: Experimental Psychology II
Description:	Continues to examine the steps of the research process, in particular research design, using various methods of psychological research. Students will conduct research, gather and analyze data, review and write research reports and develop skills in the critical analysis of research design. Students will complete an original Experimental Research Study (ERS) to include designing a research project, collecting and analyzing data, and writing an APA style research report. (Prerequisites: PSY 208, 313)	

Course	Credits	Title
PSY 316	3	WI: Preprofessional Internship
Description:	Combination internship and independent study. Placements are available in clinical, educational, and industrial/business settings. A weekly seminar helps students process their experiences and presents information on a range of professional issues. Students must obtain permission of instructor before registering for internship.	
PSY 317	3	WI: Preprofessional Internship
Description:	Combination internship and independent study. Placements are available in clinical, educational, and industrial/business settings. A weekly seminar helps students process their experiences and presents information on a range of professional issues. Students must obtain permission of instructor before registering for internship.	
PSY 320	3	Abnormal Psychology
Description:	Modern concepts of diagnosis, classification, treatment, and prevention of psychological disorders. Emphasis is on the necessity for developing an understanding of the diversity of approaches to psychopathology including: behavioral, biomedical, cognitive, interpersonal, psychoanalytic, and humanistic.	
PSY 321	3	Self-Awareness through Groups
Description:	Opportunities through group dynamics for students to expand their awareness of self and others, try out new patterns of behavior, and develop effective communication techniques. Students will learn behavioral skills that enhance interpersonal interactions.	
PSY 324	3	Lifespan Development
Description:	Explores the entire range of human life from the moment of conception through death. The content is designed to encourage respect for theory and research and at the same time provide information that can be applied in a meaningful, practical sense. In essence, the course tells the story of human beings and how they get to be the way they are.	
PSY 331	3	Positive Psychology
Description:	Positive Psychology focuses on what is "right" about people and seeks to understand which human strengths are critical for high levels of life satisfaction. This course explores current research that supports the notion that specific human strengths are predictors of optimal psychological well-being. Some of these strengths include: Happiness, Hope, Positive Affect, Emotional Intelligence, Mindfulness, Wisdom, Courage, Empathy, Gratitude, Forgiveness, Spirituality, Love, Gainful Employment, Resilience, and many more topics.	
PSY 343	3	Human Sexuality
Description:	Examines in-depth the phenomenon of human sexuality. Topics include sexual myths and fallacies, the female sexual system, the male sexual system, sexual attitudes and behavior in today's society, sexual dysfunctions and treatment. Special emphasis placed on the development of the physical and psychological aspects of a committed, intimate sexual relationship.	
PSY 345	3	Organizational Behavior
Description:	Examination of the psychology of human performance on organizational effectiveness. Emphasis is placed on individual and group performance in such crucial areas as leadership, communications, conflict resolution, decision making, organizational systems and dynamics. Students study and develop psychological strategies for optimal organizational effectiveness.	
PSY 350	3	Introduction to Counseling
Description:	An introduction to the basic dimensions and skills of the counseling process; an examination of the essential characteristics of an effective counselor; a review of the major theories of counseling and psychotherapy; and some experience in applying these components to a counseling situation.	

Course	Credits	Title
PSY 356	3	Selected Topics in Psychology
Description:	An in-depth examination of a single contemporary psychological issue such as: wellness, substance abuse, eating disorders, mother and daughter relationships, spirituality, or a critical examination of specific therapeutic approaches. Topics will rotate based on current research trends and student interest. See course schedule for current topic.	
PSY 357	3	Sport Psychology
Description:	Exploration of a wide variety of subject matter that focuses on enhancing athletic and training accomplishments. Emphasis is on the description of relevant psychological techniques that have proven to augment readiness and improve performance in exercise and sport settings.	
PSY 360	3	Learning and Cognition
Description:	This course examines current understanding of the psychological processes of Learning and Cognition. Topics covered in the course will investigate phenomena such as: classical conditioning, operant learning, short-term/working memory, long-term memory, attention and language. The emphasis of this course is on the influence of experience on behavior.	
PSY 418	3	WI: History of Psychology
Description:	In a seminar format, students examine the philosophic and scientific antecedents of modern psychology; beginnings of modern psychology in the various schools of psychology; and contemporary influence of existential and phenomenological psychology. (Prerequisites: PSY 313 and 314, or special permission from the department chair)	
PSY 419	3	WI: Contemporary Research Issues
Description:	Students select a contemporary research question for intensive study. Results of research are shared in a formal oral presentation as well as in a comprehensive written literature review. (Prerequisite: PSY 418)	
SAS 100	1	College Success Seminar
Description:	This course is designed to help students develop academic skills to facilitate success at the undergraduate level. Emphasis will be placed on utilizing university technology, accessing campus resources, communication, time management, organization, and goal setting/motivation. Students will also develop study skills that enhance learning throughout their college career and beyond	
SBM 301	3	Intro to Sport Management
Description:	This course is an overview of the history of sport as part of entertainment industry. It introduces basic the theoretical foundation for, as well as the skill sets required by, the sport manager to solve sport business related problems. Emphasis will be placed on understanding career options in the sport industry and preparation for sports leadership.	
SBM 310	3	Sport Marketing
Description:	This course explores the marketing process relative to various sport environments. It examines marketing principles and analyzes the uniqueness of sport marketing compared to marketing in general. Course topics include sport products and services, consumer behavior, marketing research and information management, promotions, positioning and sponsorship.	
SBM 320	3	Sport Facility & Event Mgmt
Description:	A study of the planning and management of athletic, physical education, and recreational facilities and the managing of events within these facilities. An emphasis will be placed on the planning process for both indoor and outdoor facilities and events. This course will help students gain the knowledge and experience in planning events on campus as well as observing and volunteering for events in the area.	

Course	Credits	Title
SBM 330	3	Sport Administration
Description:	Examination of the administrative tasks and policies/procedures necessary for sports managers in the operation of programs. Included is the development of organizational skills and human resource management, issues regarding risk management and liability, and the development of media relationships.	
SBM 398	3	Sport Management Practicum
Description:	This culminating course prepares students for the real challenges of working in sport management. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. (Instructor permission required)	
SBM 399	3	Sport Management Practicum
Description:	This culminating course prepares students for the real challenges of working in sport management. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. (Instructor permission required)	
SCI 090	0	DNS Colloquium
Description:	The DNS colloquium meets multiple times during each academic semester for lectures and discussions led by visiting scholars, faculty, and other invited guests. Topics include research, medicine, and career information. DNS majors are required to attend each semester. Participation will be documented on transcript each semester.	
SCI 106	0 OR 3	Science for Elementary Educ
Description:	This course presents content and pedagogy for the teaching of science in grades K-4 and requires learning essential science content through the perspectives and methods of inquiry. Students actively investigate phenomena that can be studied scientifically, interpret results, and make sense of findings consistent with currently accepted scientific understandings. 2 hours lecture, 2 hours laboratory. Education students only	
SCI 122	3	Earth & Space Science
Description:	This online course covers concepts related to Earth and its place in the universe. General topics include: astronomy, meteorology, Earth/Sun relationships, geology, and geomorphology. 2 hours lecture and 2 hours lab	
SCI 131	3	Astronomy
Description:	A laboratory based course designed for students who have an interest in furthering their knowledge of astronomy. The course focuses on the history of astronomy, the solar system, the sun and life cycles of stars, galaxies and cosmology. Laboratory activities will include Kepler's Laws, planetary motion, Doppler Effect, optics.	
SCI 200	1 TO 6	Special Topics in Science
SCI 250	3	Scientific Statistics
Description:	An exploration of statistical techniques used in the sciences. Includes analysis of raw data as well as understanding statistical analysis in published work.	
SCI 251	1	Clinical Trials:Bench to Markt
Description:	Students will participate in an overview of clinical research and development (CR&D) in pharma industry and importance of clinical trials in generating data for marketing approval of therapeutics. The course will focus on: 1.Overview of clinical R&D 2.Purpose and objectives of clinical trials 3.Various parties	

Course	Credits	Title
		involved in designing and executing clinical trials e.g., sponsor, patients/subjects, regulatory authorities, vendors, etc. 4.Key drivers of clinical trials e.g., protocol, Investigator Brochures [IB], investigational drug, consent forms etc. 5.Trial conduct, monitoring and close-out. 6.Post-trial obligations 7. Careers in CR&D and allied health professions.
SCI 252	1	Pharmacology
Description:		A study of the cellular and molecular pathways that control the biological functions of the body, how they are disrupted in disease, and how drugs are able to alter these pathways to counter diseases. Readings/audio/videos will be assigned outside of class, as will PowerPoints with background information. 1 hour lecture/discussion.
SCI 320	1	WI: Junior Seminar
Description:		Junior Seminar This course seeks to develop analysis and writing skills in the context of modern biological and chemical topics. Using journal article discussions and writing assignments, students will examine selected topics in biology and chemistry. The course includes instruction in scientific writing, use of contemporary scientific literature, and library research techniques. Students will write a research proposal that will include the formulation of a hypothesis supported by a literature review and the development of an experimental protocol. (Prerequisites: MATH 207 and 208 or MATH 301 and 302, CHE 103,104, BIOL 233, 234, and junior status; OR permission of the department) 1 hour lecture
SCI 396	1	WI: Senior Seminar I
Description:		The seminar includes the development of a research hypothesis supported by a comprehensive literature review and the actual execution of a laboratory/field project and data collection. Successful students demonstrate considerable independent initiative and motivation. Students who have already completed their research projects prior to enrollment in this course receive help and support in data analysis, paper preparation, and writing. 1 hour lecture
SCI 397	1	WI: Senior Seminar II
Description:		In this capstone seminar, students write and orally present a formal scientific report showcasing the results of a laboratory/field project performed in a previous course or during an approved on- or off campus research project. The report includes a hypothesis supported by a comprehensive literature review, a description of the experimental protocol, and a presentation and an analysis of the data collected during Senior Seminar I or related experience. (Prerequisites: 16 credits in biology or chemistry 300 level courses and SCI 396, or permission of department) 1 hour lecture
SCM 310	3	Principles Supply Chain Mgmt
Description:		This course covers basic principles of supply chain management and provides techniques used to analyze various aspects of logistics systems. The course focuses on developing models for the flow of goods and services through a distribution channel from supplier to the ultimate customer. Topics covered include methods of supply chain management; supply chain network design; coordination with Third Party Logistics (3PL) and Fourth Party Logistics (4PL) companies; intermodal systems; transportation models; cross-docking; vendor-managed inventories and warehouse management; demand management and the bullwhip effect.
SCM 320	3	Quality Mgmt & Cont Imprvmt
Description:		This course covers the basic concepts of managing quality and either a manufacturing or a service environment. The role of quality to enhance productivity and maintain a competitive position is the central focus. Principles and methodology needed to design systems that ensure quality from both customer and manufacturer perspectives discussed. Manufacturer and technical skills and tools provide a comprehensive approach to the implementation and maintenance of quality systems. Principles of continuous improvement and their impact on quality management explored.
SCM 330	3	Supply, Cost, and Risk Mgmt
Description:		This course presents a framework for achieving sustainable competitive advantage through progressive

Course	Credits	Title
		supply management leadership approaches. It presents the need for supply leadership, the organizational enablers that must be in place, and the strategies and approaches that leading organizations pursue to achieve competitive in price and cost, quality, cycle time, technology, flexibility, and end customer responsiveness. Special attention is given to a wide range of price, cost and risk management techniques.
SCM 333	3	Operational Effectiveness
Description:		Planning, management and analysis of business operations to create effective and efficient production and distribution of goods and services. Analysis and design of effectiveness through analytical and decision making techniques for operations management, business process design, Total Quality Management, Lean, and Six Sigma.
SCM 340	3	Global Logistics Systems
Description:		This course focuses on how inventory and information are moved in a global economy. A primary objective of this course is to examine how international logistics decisions are made which have an impact on functional areas of an organization trying to achieve efficiency and effectiveness. Discussions will consist of export-import procedures, multinational logistics strategy, international payment processes, review and selection of transportation modes, and risk management will be reviewed.
SCM 350	3	Supply Chain Seminar
Description:		This course facilitates the integration of the concepts, processes, and strategies of global supply chain management to ensure the optimization of business practices from the original suppliers through consumer and users. Students learn how to trade off and procurement, inventory, and distribution activities, improve forecasts and develop customer relationships. This course requires student participation in a distribution facility tour or virtual tour and a supply chain simulation.
SCM 398	3	Supply Chain Practicum
Description:		This culminating course prepares students for the real challenges of working in supply chain management. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. Instructor permission required.
SCM 399	3	Supply Chain Practicum
Description:		This culminating course prepares students for the real challenges of working in supply chain management. An internship experience will provide an opportunity to combine actual field experience with classroom knowledge in an area of special interest. The course also provides the opportunity to re-examine learning objectives at the program level. Instructor permission required.
SOC 200	1 TO 3	Special Topics in Sociology
SOC 202	3	Introduction to Sociology
Description:		Introduction to the analysis of sociocultural behavior; emphasis is upon the development of the social individual, collective and group behavior, social institutions and culture. The presentation of basic terms, concepts, and theories provide an understanding of the functioning of society and society's impact on the individual.
SOC 212	3	Trauma
Description:		This course will explore the different types of trauma, its impact on communities, families, and special populations such as children, transition age youth and criminal justice. Students will gain knowledge on how to become a trauma informed care champion as well as learn about evidence based models and community/natural resources that support victims of trauma.

Course	Credits	Title
SOC 213	3	Adolescent Addiction
Description:	This course examines adolescents struggling with addictions from a biopsychosocial perspective. This serves as the theoretical framework for understanding challenges and various interventions to facilitate recovery. Social institutions that influence the adolescent such as the family, the courts, and education will be dissected and we will explore various treatment issues and recovery models. Socioeconomic factors will also be analyzed.	
SOC 214	3	HON: Ethics: Theory and Praxis
Description:	This course will benefit students planning careers in helping professions and those providing services to diverse populations. Foundations of the Western philosophical tradition regarding ethical concepts and human nature will be examined in the first part of the course, with special emphasis given to key thinkers. The second part will involve both examination and application of the process of ethical decision-making, with strong focus upon the types of current ethical issues that workers face.	
SOC 217	3	Intro to Criminal Justice
Description:	A broad overview of the operations of the administration of justice and a description of the criminal justice system from arrest to parole, examining the issue of crime and focusing on the specific agencies and actors who constitute the system of criminal justice - police, courts, and correctional agencies.	
SOC 223	3	Grief & Loss Across Lifespan
Description:	Therapeutic work with clients dealing with grief and loss will be viewed within a developmental framework for different age groups. Students will learn how grief is influenced by biological, psychological and sociological responses to grief. Topics include ambiguous loss, disenfranchised loss, and spiritual losses in the mourning stages. Developmental issues, coping mechanisms, and identification of poor coping skills and risky behavior during grief and loss stages for each age group will be addressed.	
SOC 230	3	Social Stratification
Description:	This course contains an in-depth study of the systematic social inequality in the access of opportunities, resources, and rewards. The focus is on social stratification in the United States with some comparisons to other industrialized nations. A historical structure of how stratification has varied throughout history will be included, as well as the consequences of the future of a stratified world.	
SOC 232	3	Environmental Sociology
Description:	Environmental Sociology is an introductory course that examines the interactions between humans and their environment. Sociological theories will be applied as well as looking at these interactions from a micro and macro perspective. Past, present and possible future events will be analyzed in order to identify viable positive solutions to the environmental issues faced by societies, as well as the potential impact of not implementing those solutions.	
SOC 245	3	Social Values
Description:	A study of the history and values underlying American responses to human needs. Emphasis on the individual's rights to services and the dilemmas that now confront American social policy.	
SOC 246	3	Social Issues in the Workplace
Description:	Addresses social concerns experienced in the work environment with emphasis on using the sociological perspective to find solutions to these concerns. (Also offered in accelerated format)	
SOC 247	3	Hi-Technology Crime
Description:	The epidemic of high technology crime in America will be examined in regard to the criminal's methods and motives and the social, economic, legal and technological factors that have facilitated the prevalence of these crimes in the U.S. Specific investigative and prosecution hurdles experienced by the criminal justice system will be explored and the solutions offered will be addressed and analyzed.	

Course	Credits	Title
SOC 249	3	Corrections
Description:	An overview of sentencing, punishment, and treatment of convicted offenders. Analysis of the history of the correctional system, the prison social system and the theory and contemporary practices and trending issues in the area of corrections.	
SOC 250	3	Working with Adolescents
Description:	Adolescence is explained from a biopsychosocial perspective. This theoretical framework serves as a foundation for applying various intervention strategies to facilitate growth. Social institutions that influence American adolescents are examined as are factors of ethnicity, mental health and cultural diversity.	
SOC 251	3	Pathways to Careers Human Serv
Description:	This course is taught in seminar style and will focus on the current Pathways to Careers in Social Work, Juvenile Justice, and Adult & Family Services by introducing the entitlements, mandates, and programs that county & state Human Service agencies provide. Philosophies of care that guide each system will be introduced. Students will learn the importance of being Trauma Informed, Family & Youth Driven as well as an effective Cultural Broker. The use of Evidenced Based Models and Practices commonly used in the child / adolescent and transition aged youth serving systems will also be introduced. This course utilizes lecture, discussion, group exercise, audio/visual, role play, internet resources, and oral presentations along with reading assignments.	
SOC 255	3	Organized Crime
Description:	This course will examine criminals who obtain money through illegal activities; including intimidation, corruption, extortion and violence. The different types of organized crime, its history and progression both in America and abroad as well as a look inside Philadelphia organized crime and some of its more well-known members will be discussed. Also explored are the structure and activities of organized criminal enterprises, the different models that have been employed to describe organized crime groups, and the theories that attempt to explain the phenomenon. The history and strategies police use to combat organized crime will also be discussed.	
SOC 256	3	Serial Killers
Description:	In this course, we will study the phenomenon of serial crime and, in particular, the serial killer. We will define serial and related homicides, review the history of serial killing, and discuss theories as to why individuals become serial killers. We will identify the traits and categories of serial killers and the methods by which they carry out their crimes. Finally, we will look at case studies of notorious serial killers and identify and discuss what factors may have been responsible for their becoming serial killers.	
SOC 260	3	Medical Sociology
Description:	Medical Sociology brings sociological perspectives, theories, and methods to the study of health and medical practice. Major areas of investigation include the social facets of health and disease, the social behavior of health care personnel and people who utilize health care, the social functions of health organizations and institutions, the social patterns of health services, and the relationship of health care delivery systems to other systems. This course also provides an overview of social work practice in a variety of medical settings including inpatient, outpatient, clinics, hospitals, skilled nursing facilities, and home care. Students will gain information on the history of medical social work, the diverse settings in which medical social work is conducted, the responsibilities of medical social workers, the issues currently facing medical social workers, and the factors that impact social work practice in a multidisciplinary health care teams.	
SOC 263	3	Sociology of Health & Illness
Description:	Sociology of Health and Illness will examine health, illness, and the health care system from a sociological perspective. More specifically, the course will study how social forces promote health and illness, why some social groups suffer more illness than others do, and how the understanding of social forces can assist in addressing the issues. It will also examine how illness affects an individual, his/her relationships, or his/her ideas about what causes illness. The course will then view health care providers, the health care system, and health care settings from a sociological perspective.	

Course	Credits	Title
SOC 264	3	Victimology
Description:	The scientific study of victimization, including the relationships between the victims and the offenders, the interactions between victims and the criminal justice system-that is the police, the courts, and corrections officials-and the connection between victims and other societal groups and institutions, such as the media, business, and social movements. Topics include child maltreatment, intimate partner violence, elder abuse, cybercrime, hate crime and current topics including human trafficking, home invasion, gang violence, terrorism and wrongful convictions.	
SOC 267	3	Homeland Security
Description:	This course will introduce the theories of homeland security and the crucial fundamentals of the department by exploring its mission and goals. Students will develop an understanding of terrorism by learning how these organizations work, and what threats they pose to today's society. In addition, students will learn that the man-made threats are not the only dangers challenging homeland security and that "natural threats" also pose a challenge for the department. Students will become familiar with federal, state, and local laws, as well as international law, as it relates to the mission and goals of homeland security. Special attention will be dedicated to the USA PATRIOT Act of 2001, the Homeland Security Act of 2002, and the Emergency Management Reform Act of 2006 and how these Acts affect policy making within the department. Included will be an introduction to the different communities associated with the Department of Homeland Security, the intelligence, the security, and the milit	
SOC 270	3	Sociology Media & Pop Culture
Description:	This course applies sociological thinking and perspectives to pop culture, the media, and the global society. An in-depth look will be given to class and cultural consumption, the power of advertising and the mass media, and the influence of technology and the internet. Specific topics include the production of culture, social media in the digital age, and the social impact of media on society.	
SOC 275	3	Sociology of Mental Disorders
Description:	Examination of the social factors contributing to the onset of mental disorders. Social institutions that provide resources to the mentally ill, their social organization and delivery will be explained, as well as consequences of mental disorders for individuals and for society.	
SOC 300	3	HON: Special Topics
Description:	This designation is for courses offered as electives in the Undergraduate Honors Program, and may include both Honors-only courses and augmented Honors versions of courses that are offered elsewhere in the catalog. Courses have limited enrollment and content reflects Honors Program course outcomes around rigorous critical engagement, interdisciplinarity, effective communication, and meaningful collaboration.	
SOC 306	3	Sociology of the Family
Description:	A sociological study of the family with an emphasis on historical trends, cultural variations, and current family issues.	
SOC 307	3	Criminology
Description:	A study of the key concepts in criminology, measurement of crime, historical and contemporary theories of crime; criminal behavioral systems, and an overview of the adult criminal justice system.	
SOC 308	3	Criminal Law and Procedure
Description:	An overview of the history and structure of the Pennsylvania and Federal criminal courts. Included is an in-depth analysis of criminal court procedures including initiation of charges, bail, summary proceedings, preliminary hearing, pre-trial motions, trial and sentencing using the Pennsylvania Rules of Criminal Procedure with case reviews. The course will also focus on the various roles and tasks of the court personnel at each stage of the criminal process. (Pre-requisite: SOC 217)	

Course	Credits	Title
SOC 310	3	Ethics and the Law
Description:	This course examines the ethical foundation upon which the American system of Criminal Justice operates. During the course, students examine numerous societal issues which directly concern the criminal justice practitioner and the application of discretionary powers. In addition, this course will examine the ethical issues specifically related to the criminal justice profession. Issues include professional communications including government regulation and policy, free speech, client/victim/investigative privacy, accuracy in media and the impact of science and technology on communications.	
SOC 312	3	Sociology of Deviance
Description:	A sociological examination of rule-breaking behavior, the nature and extent of deviance, and the seven major perspectives on deviance and social control measures. An in-depth analysis of the many varieties of crime, substance abuse, sexual behavior, mental disorders, suicide, and disability.	
SOC 314	3	Juvenile Delinquency
Description:	Examination of the meaning and scope of juvenile delinquency; a comparison of the adult and juvenile justice systems; and a review of the chronological development of delinquency theories with a major focus on gang delinquency processes.	
SOC 315	3	Juvenile Justice Programs
Description:	This course will introduce students to the basics of the Juvenile Court and the rehabilitative efforts of the system. High profile cases and court decisions that have affected Juvenile Court policy will be discussed. A look at actual programs in use in Delaware County will give students a glimpse of our local court system.	
SOC 321	3	WI: Sociological Theory
Description:	Examination and discussion of the writings of major theorists, such as Durkheim, Simmel, Mead, Weber, Mills, and Parsons. These individuals and others are used as a basis for discussion of issues and schools of thought in sociology. (Prerequisite: Senior and Junior majors, minors or permission of the instructor)	
SOC 328	3	Minority Groups
Description:	Analysis of intragroup and intergroup relations of the major minority groups in the U.S., their structures, conflicts, and relations with the dominant culture. The primary focus is on ethnic and racial groups.	
SOC 343	3	Field Practicum I
Description:	A study of how to help people with problems in living. Includes values, skills, and useful theoretical approaches to helping. Special attention to development of self-awareness and use of self in the helping process. Supervised field experience (one day a week) matching the student's interests, time, and abilities in a variety of settings. (Juniors and Seniors)	
SOC 345	3	Social Problems: World at Risk
Description:	A study of the global context of social problems with an examination of cross-cultural comparisons integral to the study of contemporary social problems in the United States. Application of both micro- and macro-level systems of sociological inquiry and explanations will be explored.	
SOC 346	3	Field Practicum II
Description:	Twelve to Sixteen (12-16) hours per week in a field setting under professional supervision working with people in a variety of ways. An intensive, hands-on experience helping people to cope, problem-solve, and gain access to resources they need. Includes group supervision on campus. (Prerequisite: SOC 343)	
SOC 348	3	Police and Society
Description:	Introduces students to policing in America by examining a wide range of areas including the historical	

Course	Credits	Title
		development of policing, recruitment, training, organizational procedures, and current trends in law enforcement. Key issues of criminal and civil law, current and developing policing trends, and recent incidents in policing will be discussed.
SOC 353	3	Cultural Anthropology
Description:		An in-depth study of the diversity of human behavior and lifestyles around the world, exploring the social and cultural similarities and differences of human society and culture. The scope of the course ranges from the simplest people to the highly developed civilizations of the modern world. Additionally, this course will focus on another major anthropological field, Archaeology, through which our human past is studied.
SOC 360	3	HON: Gender and Culture
Description:		A critical examination of the claims which explain and sanction social differences between the sexes from various theoretical perspectives; biological, psychological, sociological and anthropological. The social construction of gender will be examined across culture as well as the paradoxes and differing perspectives that gender study evokes.
SOC 371	3	Seminar I: Methods
Description:		The first of a two-course sequence, this course is devoted to the principles, procedures, and techniques in the development of a research proposal. Focus is on the structuring of inquiry used in the discipline of sociology and the writing of a research proposal. Junior standing.
SOC 375	3	Social Psychiatry
Description:		This is a survey course designed to introduce the fascinating world of mental illness. The first part of the course deals with the definition of mental illness. This is a challenging task, in light of the fact that mental illness can take exotically different forms around the world. The second part of the course centers around the clinical symptoms and theoretical causes of different forms of mental illness, such as schizophrenia, bipolar disorder, phobia, obsessive-compulsive disorder, panic disorder, multiple personality disorder, psychopathy, personality disorders, post-traumatic stress disorder and psychosexual disorders. The third part of the course examines how different types of mental illness vary across socio-demographic groups. Who is most at risk and why? Topics include gender, race, ethnicity, marital status, religion, social class, place of residence, migration, age, and family variables such as sibling position. Cross-cultural differences are regularly emphasized. T
SOC 402	3	Crime Scene Investigation
Description:		This course is designed for students who have little or no knowledge of crime scene investigation procedures and techniques and is designed to educate students in the primary skills and procedures necessary to properly respond to, identify, preserve and collect evidence necessary for criminal prosecution. Topics such as responding to and securing the crime scene, crime scene sketching, photography and videographer techniques, evidence identification, collection and documentation, interviewing, report writing, and courtroom testimony will be presented. In addition to the class room material students do hands on work where they practice what is being taught in each module. The final exam (SOC 403) requires processing a staged crime scene. Must also register for SOC 403.
SOC 403	1	Crime Scene Workshop
Description:		Students taking this workshop, like Police CSI's, will be assigned to five member teams and will perform the duties and functions of each team member. This workshop will require students to properly respond to, identify, preserve and collect evidence necessary for criminal prosecution. Skills learned in SOC 402 will be demonstrated. Think of this workshop as a crime scene lab with the final exam the processing of a staged crime scene. Must also register for SOC 402.
SOC 405	3	Forensic Death Investigation
Description:		Students in this course will learn the fundamentals of medical examinations of death and their relationship to the crime scene. Special focus will be given to the various manners of death and the

Course	Credits	Title
		pathology behind their top listed causes. Students will additionally learn the importance of rigor, livor, and algor mortis as well as various stages of decomposition in determining an accurate timeline of events.
SOC 415	3	Seminar II: Field Research
Description:		The second of a two-course sequence, this course is devoted to the principles, procedures and techniques in the development of a research proposal. Focus is on the basic research methods used in the discipline of sociology and criminology, and completion of the writing of the research proposal developed in Seminar I. Junior standing. (Prerequisite: SOC 371)
SPAN 101	3	Elementary Spanish I
Description:		Pronunciation, basic elements of grammar through oral and written exercises. Laboratory work required.
SPAN 102	3	Elementary Spanish II
Description:		Continuation of pronunciation and basic elements of grammar through oral and written exercises. Laboratory work required. (Prerequisite: SPAN 101 or instructor's approval)
SPAN 103	3	Intermediate Spanish I
Description:		Emphasis on review, expansion, and application of grammar, vocabulary, and pronunciation through listening, speaking, reading, and writing exercises. Discussion of geography and culture of Spain and Latin America. Laboratory work required.
SPAN 104	3	Intermediate Spanish II
Description:		Continuation of review, expansion, and application of grammar, vocabulary, and pronunciation through listening, speaking, reading, and writing exercises. Discussion of geography and culture of Spain and Latin America. Laboratory work required. (Prerequisite: SPAN 103 or instructor's approval)
SPAN 150	3	Spanish for Medical Personnel
Description:		Basic communication skills for those involved in medicine, nursing, and allied medical services in the Hispanic community. Emphasis on functional, situational conversation and elementary grammar.
SPAN 151	3	Spanish for Pastoral Ministry
Description:		Basic communication skills for those working within the context of pastoral ministry in the Hispanic community. Emphasis on functional, situational conversation and elementary grammar. (Offered in the IHM Formation Academic Program)
SPAN 152	3	Intermed Spanish for Med Persn
Description:		An intensive course designed to advance the language proficiency of those working in the medical field. (Prerequisite: SPAN 150 or instructor's approval)
SPAN 163	4	Spanish & Hispanic Culture I
Description:		Basic communication skills for those in the service industry. Emphasis on cultural sensitivity and functional conversation. This is the foundation course for SPAN 163 and SPAN 164. (Offered only through corporate training opportunities.)
SPAN 164	4	Spanish & Hispanic Culture II
Description:		Continuation of SPAN 160. Basic communication skills will be further developed through oral and situational exercises. Emphasis on cultural sensitivity and the importance of customer service. (Offered only through corporate training opportunities.) (Prerequisite: SPAN 163)

Course	Credits	Title
SPAN 165	4	Spanish & Hispanic Culture III
Description:	Students will be challenged to effectively communicate with customers and associates in basic work-related situations. Communication skills will be further developed through oral and situational exercises while emphasizing cultural sensitivity and the importance of customer service. Offered only through corporate training opportunities. (Prerequisites: SPAN 163, 164)	
SPAN 200	1 TO 3	Special Topics in Spanish
Description:	Study of a theme, genre, period, literary group or single author; cultural topic from Latin America or Spain.	
SPAN 201	3	Adv Intermediate Spanish I
Description:	Contemporary overview of Spanish language, syntax, and grammar with materials selected for exploring Hispanic culture. Emphasis on development of student autonomy in Spanish, especially in speaking and writing. Laboratory work required. (Prerequisite: SPAN 102, or 104, or 152 or instructor's approval)	
SPAN 202	3	Adv Intermediate Spanish II
Description:	Continuation of contemporary overview of Spanish language, syntax, and grammar with materials selected for exploring Hispanic culture. Emphasis on development of student autonomy in Spanish, especially in speaking and writing. Laboratory work required. (Prerequisite: SPAN 201 or instructor's approval)	
SPAN 300	3	Crss Brdrs:Hisp Wmn's Image US
Description:	Topics concerning Hispanic females in the U.S., the restrictions imposed on them by the roles ascribed by American society, and how they adapt to or rebel against such limitations. Themes of exile, machismo, marginalization, integration and freedom will be explored. Students will be able to contrast and compare their own experiences in American society with those of the many Latin-American cultures in the United States in order to discover a universal global female experience. The course will be conducted in Spanish. (Prerequisite: SPAN 305 or 333, or instructor approval.)	
SPAN 301	3	Travel Study
Description:	Study/travel immersion course conducted in English with the option of receiving credit in Spanish. Classes meet once a week in the spring. Travel in May with final paper required to receive credit. Limited enrollment. Travel costs additional. Students who opt for Spanish credit will utilize the Spanish versions of the readings and films where available. (Prerequisite for Spanish credit: SPAN 201-202 and departmental approval. Students may be enrolled in 202 simultaneously with this course. This course is cross-listed with HIST 301. No prerequisite required for history credit)	
SPAN 302	3	Intensive Study Abroad:Spanish
Description:	Study/travel immersion course conducted in Spanish. Classes meet once a week in the spring. Travel in May/June and final paper required to receive credit. Limited enrollment. Travel costs additional. (Prerequisite: SPAN 201-202 and departmental approval)	
SPAN 304	3	Intermed-Adv Span Conv&Comp I
Description:	Intensive group discussions, oral and written reports revolving around current themes and issues. Review of subtleties of Spanish grammar. Emphasis on oral proficiency and use of specialized vocabulary and idioms. (Prerequisite: SPAN 202 or instructor approval).	
SPAN 305	3	Intermed-Adv Span Conv&Comp II
Description:	A continuation of Intensive oral practice and written reports revolving around current themes and issues. Further review of subtleties of Spanish grammar and emphasis on proficiency with using specialized, field-specific vocabulary and idiomatic expressions. (Prerequisite: SPAN 304)	

Course	Credits	Title
SPAN 312	3	Spanish for Heritage Speakers
Description:	This course is designed specifically for native or heritage speakers of Spanish with oral proficiency but little or no formal training in the language. Generally, these are learners who were raised in homes where Spanish was spoken. The course is designed to build on the language base students already possess. Spanish-speaking students are not viewed as using an "improper" form of Spanish that is incorrect or needs to be eliminated. Rather, their language is viewed as an extremely valid means of oral communication. The primary purpose of the course is to develop reading and writing skills, although all of four language skills (listening, speaking, reading, and writing) are emphasized via cultural and community activities.	
SPAN 313	3	Hispanic Cultures Through Film
Description:	Exploration of the Spanish speaking world through film. Study of people, places and contributions of Hispanic and Latino speakers from around the globe. Discussions of similarities and differences among Latino cultures and in comparison with American culture. (Prerequisite: SPAN 305 or 333, or instructor approval)	
SPAN 314	3	Culture&Civilization of Spain
Description:	An overview of the major social and cultural movements in Spain, its people and their contribution to the arts and literature. (Prerequisite: one of the following:SPAN 303, 305, 333, or instructor's approval)	
SPAN 315	3	Spanish Literature I
Description:	Reading and analysis of major works from the Middle Ages through 18th century Spain. (Prerequisite: SPAN 314 or instructors approval)	
SPAN 316	3	Spanish Literature II
Description:	Analysis of literary trends and study of representative authors of 19th and 20th century Spain. (Prerequisite: SPAN 314 or instructor approval)	
SPAN 319	3	Spanish Women Writers
Description:	Reading and discussion of the major works of women writers of Peninsular Spain. Selected works are examined in the context of the literary and cultural conditions that gave rise to their expression. (Prerequisite SPAN 305 or instructor approval) Offered in Spanish or English.	
SPAN 323	3	Spanish for Careers
Description:	Specialized Spanish language for careers in industry, government, and service to respond to the needs of international transactions in the Spanish-speaking world. (Prerequisites: SPAN 303 and 333, or 305 or instructor's approval)	
SPAN 325	1 TO 3	Field Experience I
Description:	Supervised and directed placement in language-related areas of business, industry, government, law, commerce, or community service. Log and analyses are prepared by the student and evaluated by the cooperating agency or institution and the faculty director. (Departmental approval required)	
SPAN 326	1 TO 3	Field Experience II
Description:	Supervised and directed placement in language-related areas of business, industry, government, law, commerce, or community service. Log and analyses are prepared by the student and evaluated by the cooperating agency or institution and the faculty director. (Departmental approval required)	
SPAN 328	3	WI: Latin Amer Culture & Civ
Description:	Discussion of the historical, literary, and artistic development of Spanish-America from pre-Columbian times to the present. (Prerequisite: SPAN 303, 305, 333 or instructor approval)	

Course	Credits	Title
SPAN 329	3	WI:Latin American Literature I
Description:	Study of the development of the main Spanish-American literary movements in the novel, drama, and poetry from Colonial times to the end of the nineteenth century. (Prerequisite: SPAN 328 or instructor approval)	
SPAN 330	3	Latin American Literature II
Description:	Discussion and analysis of the literary movements of the 20th century in the novel, drama, and poetry in the works of major Spanish-American female and male authors. (Prerequisite: SPAN 329 or instructor approval)	
SPAN 331	3	Latin American Women Writers
Description:	Reading and discussion of the major works of Spanish-American women writers of various periods and genres. Selected works are examined in the context of the literary and cultural conditions that gave rise to their expression. Offered in Spanish (Prerequisite: SPAN 305) or English.	
SPAN 332	3	WI: Latinos in the US
Description:	Study of the historical, literary, artistic development of Latinos in the USA, immigration issues and Latino participation in politics and civil life. (Prerequisite: SPAN 303, 305, 333, or instructor approval)	
SPAN 334	3	Seminar
Description:	In-depth study, analysis, and presentation of research topics. This seminar is interdepartmental for Spanish-psychology and Spanish-social work. Offered in alternate years. This is the senior capstone course for majors. (Departmental approval required)	
SPAN 335	3	Advanced Conversation
Description:	Intensive oral practice tailored to the professions: Spanish for Criminal Justice, Spanish for Nutrition and Dietetics, Spanish for the Teaching Profession, and Spanish for the Medical Profession.	
SPED 385	3	Procedures/Proc Special Educ
Description:	This course includes federal and state level professional and ethical practices required of the special education teacher. In addition, it covers advanced development (instructional planning) of individual education plans (IEP), individual family service plans (IFSP), 504 plans, and positive behavior support plans (PBSP) created as a result of comprehensive, multidisciplinary student evaluations/assessments (evaluation reports—e.g., functional behavior assessments—FBA) of students with disabilities in school settings. Contents capture global procedures for screening/assessment, referral, classification, placement, instructional programming in a standards aligned system and progress monitoring (data collection systems). (Prerequisite: EDU 381)	
SPED 386	3	Strats High Incidence Disabl
Description:	Topics include advanced, research-based strategies/interventions for students who have high incidence disabilities (specific learning disabilities, attention deficit disorders, mild/moderate intellectual/developmental disabilities, speech/language disorders, social-emotional/behavioral disorders and high functioning autistic disorders). Specifically, the course includes instructional planning, pedagogical techniques (specially designed instruction) for all academic, social-behavioral and other functional skill areas, and monitoring of student's progress resulting from these instructional techniques. (Prerequisites: EDU 381 and EDU 384)	
SPED 388	3	Characteristics/Causes Disabl
Description:	This course includes ADVANCED characteristics and causes (etiologies) of all disabilities as per the categories described in IDEA. These developmental differences are in the realms of medical, biological, psychological, emotional-behavioral and social-cultural influences. Coverage about how these aspects affect academic and all other functional skills is also included. (Prerequisite: EDU 381).	

Course	Credits	Title
SPED 389	3	Strats Low Incidence Disabl
Description:	This course covers ADVANCED, research-based strategies/interventions for students who have LOW INCIDENCE DISABILITIES (LID): (Significant Cognitive Delays—Intellectual/Developmental Disabilities, Low Functioning Autism Spectrum Disorders or Pervasive Developmental Disorders, Serious Physical Disabilities—Orthopedic Impairments, Complex Health Issues—Other Health Impairments, Multiple Disabilities, Visual Impairments including Blindness, Hearing Impairments including Deafness and Severe Emotional Disorders). Specifically, it includes instructional planning, pedagogical techniques (specially designed instruction) for all academic, social-behavioral and other functional skill areas, and monitoring of students' progress resulting from these instructional techniques. Medical and physical management techniques for students in need are also included. A 40-hour field experience is required. (Prerequisites: EDU 381 and EDU 384).	
SSP 450	0.5	Transition
Description:	This course will continue preparing students for graduate/professional school or employment in a STEM.	
THE 109	3	Introduction to Theology
Description:	Introduction to the study of theology offering an overview of the fundamental questions, issues, sources, and content of the Christian theological tradition. This course seeks to invite reflection on the deepest questions raised by human life and to explore ways that Christian faith responds to these questions with an aim to foster an understanding of St. Anselm's definition of theology as "Faith Seeking Understanding" and to deepen understanding of the significance of Christian theology for human existence in the world today.	
THE 110	3	Introduction to the Bible
Description:	A general overview of Sacred Scripture. Students will gain an acquaintance with the history and geography of the biblical literature; the formation of the two testaments and types of biblical literature; important themes and persons of the Bible; and the role of scripture in the Church and in Christian theology today.	
THE 200	1 TO 3	Topics in Theology
Description:	Selected topics to enrich the understanding of a variety of theological themes.	
THE 206	3	Fnds & Forms Christian Spirit
Description:	This course will examine foundational spiritual practices as well as significant spiritual movements in Christian history. Students will examine classic Christian spiritual thought and practice in response to contemporary questions and concerns.	
THE 209	3	Sin&Salvation in Everyday Life
Description:	This course illuminates the Biblical understanding of the reality of sin as broken/breaking relationship with God, self, others and creation. It explores the pivotal Christian claim that this human reality has been transformed in a definitive way by the life, death and resurrection of the Savior, Jesus Christ.	
THE 210	3	The New Testament
Description:	This course surveys New Testament literature, highlighting the unique theological perspectives and emphases of each author and the historical circumstances of each text. The course enables students to analyze and interpret texts individually and to recognize their place within a canon of Scripture read by the Church.	
THE 211	3	Jesus Christ
Description:	Examination of the person and ministry of Jesus of Nazareth and explores the theological significance of the mystery of Jesus Christ for our world today. It poses the question which Jesus himself posed to his disciples: "But who do you say that I am?" (Mk. 8:29) and examines various responses to this question throughout the Christian tradition. It also offers a historical overview of various waves of renewal in Christology and highlights some contemporary emphases in the study of Christology.	

Course	Credits	Title
THE 212	3	Mary, Mother of Jesus
Description:	This course delves into the Gospel portrait of Mary, the development of Marian doctrine, and forms of authentic Marian devotion. By examining the life and influence of the "first disciple," the course seeks to illumine how persons may respond to God's revelation today.	
THE 214	3	God, Creation, Science
Description:	This course explores how the scientific quest for knowledge of the universe relates to belief about Creation. It considers the contributions of scientists and theologians who value the complementarity between the disciplines.(Prerequisites: THE 109 or THE 110)	
THE 217	3	Marriage&Fmly:Theologic Prspct
Description:	This course explores the ethics of marital and familial relationships in light of Scripture, Christian theology, the social sciences, and contemporary human experience. Key themes include the relation between sexual intimacy and human flourishing, divine love and human love, civil marriage and religious marriage, and the family and society. Attentive to wisdom of the past, the course takes up new questions, including "hookup culture," sex and social media, same-sex relations/marriage, singleness as a vocation, work-family tensions, and the family's mission in society.	
THE 218	3	Christian Ethics & Good Life
Description:	What constitutes a good human life? This course pursues this question in dialog with the moral wisdom of the Christian tradition. Primary focus is given to the themes of happiness, virtue, and love, which are examined in light of traditional and contemporary sources and in conversation with student experience. The course also explores moral decision-making and responsibility in relation to the pursuit of both the personal and common good. Attention is given to the unique insights Christian ethics brings to bear on issues that impact realization of the good life in our context today.	
THE 221	3	Theology of the Human Person
Description:	This course examines essential elements of a Christian understanding of the human person before God. It helps students explore life's "big questions": where do we come from; is there a purpose to our existence; what are we to make of so much evil and suffering; where is God to be found; and for what may we hope? Students will be introduced to key biblical, historical, and contemporary sources that have shaped Christian thinking about human existence.	
THE 229	3	Mystery of the Church
Description:	What does it mean to belong to a church? This course explores the mystery of the church by examining its biblical origins, its practices and rituals, and its mission in God's plan.	
THE 230	3	Forgiveness,Justice & Reconcil
Description:	This course explores biblical and theological foundations of a Christian understanding of forgiveness and the relevance of this tradition for pursuing forgiveness and reconciliation today. Topics include the role of justice in the forgiveness process and importance of forgiveness as the basis for the goal of reconciliation. In addition to the dynamics of inter-personal forgiveness, the course examines how an ethic of forgiveness can support the political and social goals of reconciliation and restorative justice. Through consideration of moral and spiritual exemplars, students will learn the craft of exercising the virtue of forgiveness in daily life.	
THE 238	3	Social Justice & Common Good
Description:	How can we create a more just, humane, and sustainable world? This course pursues this question in light of the vision and moral wisdom of the Catholic social tradition. In dialog with theological commitments to human dignity, the common good, and related ethical principles, students will develop their understanding of important social issues, acquire skills of social and ethical analysis, and cultivate their ability to envision practically-wise courses of action. Specific topics to be explored include: strengths and weaknesses of the free market economy; poverty and underdevelopment; the ethics of war and peace; punishment and restorative justice; work and leisure; treatment of migrants and strangers; and care for the environment.	

Course	Credits	Title
THE 300	3	HON: Special Topics
Description:	This designation is for courses offered as electives in the Undergraduate Honors Program, and may include both Honors-only courses and augmented Honors versions of courses that are offered elsewhere in the catalog. Courses have limited enrollment and content reflects Honors Program course outcomes around rigorous critical engagement, interdisciplinarity, effective communication, and meaningful collaboration.	
THE 306	3	Signs, Symbols, Sacraments
Description:	Introduction to earliest forms of prayer and worship practiced by Christian communities. Students will discover how Christians passed on the rituals and prayer forms enacted by Jesus and the first Christian communities. The examination of the sacramental life of the Church, especially Baptism and Holy Eucharist, will furnish a source of worship for life.	
THE 311	3	Exploring the Gospels
Description:	A survey of the Gospels of Mark, Matthew, Luke and John, highlighting the unique theological perspective of each evangelist and the distinctive facets of the life and ministry of Jesus that each Gospel writer emphasizes. It seeks to familiarize students with what the gospels say about Jesus, with tools for reading the gospels intelligently, and with some history of the first century world. The course examines the structure, plan, and major themes of each author and invites reflection on the meaning of the Gospel for our contemporary world. (Suggested preparation: THE 110)	
THE 314	3	Religions in Dialogue
Description:	Using the principles of interreligious dialogue, this course investigates the principle beliefs, rituals, and moral codes of the major world religions: Christianity, Hinduism, Buddhism, Confucianism, Judaism, and Islam. It seeks to broaden awareness of religious diversity and develop attitudes of understanding, respect, and collaboration with members of other religious traditions.	
THE 328	3	Saints Rediscovered
Description:	Pope Paul VI famously stated: "Modern man listens more willingly to witnesses than to teachers, and if he does listen to teachers, it is because they are witnesses." This course will explore the nature of Christian living through an examination of the impact and influence of classical and contemporary saints.	
THE 335	3	Christian Faith in Action
Description:	This course investigates the fundamental teaching of the Christian faith and the role of prayer and spirituality in living an authentic Christian life. (Accelerated format only)	
THE 408	3	Contemporary Medical Ethics
Description:	This course examines contemporary health care ethics in light of Christian theology and ethical standards relevant to human health and flourishing. In dialog with fundamental commitments to human dignity, the common good, and ethical integrity, it examines the role of ethics in health care and important developments in contemporary medical ethics. Students will gain understanding of ethical principles and forms of moral reasoning that typically guide decisions in health care and that frame debates regarding health policy. Topics to be explored include: healthcare relationships, treatment decisions, beginning and end of life issues, use of human subjects in medical research, genetic manipulation, and just allocation of healthcare resources.	
WCYB 340	0	Offensive Operations and OSINT
Description:	The course provides students with a background in Offensive Cybersecurity Operations and Open-Source Intelligence Collection. Students will use the latest tools, techniques, and procedures (TTPs) to succeed in exploiting vulnerabilities and evading modern antivirus systems. Students will identify an entity's public presence from an attacker's perspective including who within the organization would be a compelling target for an advanced persistent threat.	