

ADM-201	Principles of Self-Management	2	ADM-495	Seminar in Business	3
<p>This course will focus on group interaction skills and the management of individual and professional priorities. Some of the areas covered will include behavioral style analysis, communication processes within groups, versatility in dealing with supervisors and subordinates, goal setting, prioritizing, and time management.</p>			<p>This capstone course in business administration is designed to integrate the content of the core courses into an applied management framework. Elements of this course include decision-making in a wide variety of areas based on advanced level case analyses. Substantial reading of various managerial perspectives and applications of those perspectives to the student's work setting is required.</p>		
ADM-316	Computers and Information Processing	3	ART-121	Drawing I	3
<p>An introduction to the equipment, techniques, and concepts of information systems processing. Emphasis has been placed on the components of information processing systems and the part each plays in the processing of data.</p>			<p>This course presents the basic element of drawing: composites and structure, use of line, movement and space. Gain an awareness and confidence to create on paper what your eye sees.</p>		
ADM-320	Business Statistics	3	ART-134	Introduction to Photography	3
<p>This module helps students analyze and interpret statistical data. Quantitative concepts and basic techniques in research are stressed.</p>			<p>This course will introduce the basic historical events, visual concepts, and technical methods that allow the beginning photographer to communicate visual impressions more effectively. Instruction will facilitate technical and aesthetic expression through an exploration of the basic tools and techniques of color photography, with emphasis on creative use of current technology, film exposure, and application to electronic media.</p>		
ADM-370	Economics for Business	3	ART-170	Art Appreciation	
<p>An introductory course designed to relate economic theory and current economic events to the problem of effective managerial decision-making.</p>			<p>A study of the history of art in Western culture from ancient times to the present. Not open to individuals with credit in MUS-180. (Primarily for transfer students who need to complete Humanities Core requirements. Meets either first or second half of the semester.)</p>		
ADM-400	Personal and Professional Assessment	3	ART-221	Drawing II	3
<p>The investigation and application of techniques used in personal, professional, and educational assessment. Development of lifelong learning principles; preparation of prior-learning portfolio an optional outcome.</p>			<p>This course builds on the previous class. The student will become more proficient in areas of drawing, perspective, and composition. The emphasis is on the human figure. Prerequisite: ART-121.</p>		
ADM-447	Business Law	3	ART-224	Design I: Two-Dimensional Design	3
<p>A review of the legal requirements facing business enterprise including bailments, bankruptcy, sales, negotiable instruments, and key points in the development of modern business and commercial law.</p>			<p>An introductory course dealing with the abstract elements of line, texture, shape, space, color, values, and patterns. Employs basic media techniques and tools with emphasis on craftsmanship.</p>		
ADM-448	Strategic Planning	3	ART-228	Metalsmithing I	3
<p>Students will develop or improve skills in the critical areas of applied organizational research and managing the planning process with a focus on strategic and operational planning.</p>			<p>A study and practice of enameling on brass, copper, and silver. Techniques in silversmithing are learned and developed. Included are castings, wood, silver, and set stones. Prerequisites: ART-221 and ART-324.</p>		
ADM-471	Managerial Accounting	4	ART-230	Stained Glass I	3
<p>The acquisition, analysis, and reporting of accounting information is examined from the perspective of effective management decision-making with special emphasis on the planning and control responsibilities of practicing managers.</p>			<p>A course designed to teach the history of stained glass from the 12th century to the contemporary methods of assembling and completing a stained glass panel. Prerequisites: ART-221 and ART-324 or permission of the professor.</p>		
ADM-474	Managerial Finance	4			
<p>An overview of the fundamentals of financial administration emphasizing the development of the issues and techniques involved in the cost of capital, capital budgeting, cash budgeting, working capital management, and long-term sources and uses of funds.</p>					

ART-238	Digital Imagery Art	3	ART-253	Basic AUTOCAD	3
<p>An introductory class in photography designed to provide foundational instruction in digital based photographic imagery. The student will explore the creative and technical aspects of photography as a creative medium. Capture output will be totally digital in format. This class is designed as an alternative to ART-234 for non-photo art majors. A four-mega pixel digital camera with the capabilities for full manual control is required. Prerequisites: ART-121 and ART-224.</p>			<p>Graphic presentations are demonstrated introducing AUTOCAD as an industry standard for computer representation of floor plans and rendering. Basic interior design projects will be used to explore the expanse of capability CAD offers to the interior design industry. Prerequisite: Art-247.</p>		
ART-239	History of Photography	3	ART-255	Batik	3
<p>An introduction to the history of photography from 1839 to the present. This course will investigate the aesthetic, historical and technical progress of photography since it's inception in 1839. Students will be encouraged to establish a historical context with contemporary photographers as well as their own work. The photographic image will be explored as a viable artistic medium for presenting personal creative expression and vision.</p>			<p>A study in various techniques of surface designing, including dyeing and printing on fabrics. Prerequisites: ART-221 and ART-324.</p>		
ART-241	Ceramics I	3	ART-256	Weaving I	3
<p>This course is designed to expose the student to the traditional and nontraditional forms of working in clay as applied to slab construction, coil construction, slip casting, extruding, and modeling. Technical information includes clay mixing, glaze formulating, and kiln firing. Prerequisites: ART-221 and ART-324 or permission of the professor.</p>			<p>A basic introduction to the fiber arts through knowledge of the loom. Experimentation with fibers and color blending.</p>		
ART-245	Composition and Storyboarding	3	ART-260	Web Design I	3
<p>Composition and Storyboarding is a course developed for the student who aspires to produce pre-production visual stories for assorted media industries. Prerequisites: ART-121, ART-221, ART-224.</p>			<p>An introduction to basic skills of printmaking methods, including woodcut, engraving, intaglio, and lithography. Prerequisites: ART-221 and ART-324.</p>		
ART-246	Introduction to Interior Design	3	ART-266	Printmaking I	3
<p>This course introduces the student to basic interior design principles, theory and conceptual processes. The emphasis is on creating small-scale spaces based on the client's interaction with the environment. Prerequisites: ART-121, and ART-224.</p>			<p>An introduction to basic skills of printmaking methods, including woodcut, engraving, intaglio, and lithography. Prerequisites: ART-221 and ART-324.</p>		
ART-247	Motion Graphics 1	3	ART-273	Introduction to Computer Graphics	3
<p>Motion Graphics is an introduction to film and motion graphic design and production. Topics addressed in this class include: a brief history of film, conceptualization and preproduction design, technical issues and design concepts pertaining to capture, direction and organizing production, editing and flow/pacing control, and post-production/output. Prerequisites: ART-121 and ART-224.</p>			<p>This course is designed to introduce students to graphics-oriented computer hardware and software. Emphasis will be on developing competence and familiarity with Macintosh Systems operation, terminologies and components of computerized graphics, and procedures in the creation of typography and illustration. Black-and-white and color systems are used. Prerequisite: ART-221, ART-280, and ART-324.</p>		
ART-251	Sculpture I	3	ART-280	Visual Communications--Graphic Design	3
<p>An introduction to sculpture including basic techniques, skills, and concepts associated with materials used to create contemporary three-dimensional forms. Prerequisites: ART-221 and ART-324.</p>			<p>Introduction of graphic design as a problem-solving approach to visual communications. Emphasis is placed on learning the process of conveying visual information with meaning and purpose. Prerequisites: ART-221 and ART-324.</p>		
			ART-281	Commercial Layout and Design	3
			<p>An introduction to the preparation of graphic design and advertising art for reproduction, including the essentials of art work, boards, rules, type, grounds, and printing production. Prerequisites: ART-221 and ART-324.</p>		

ART-314	Documentary Photography	3	ART-332	Painting II	3
<p>This course will examine the traditional, technical and historical approach to documentary photography and apply these concepts to contemporary society. The photographer will create a body of work reflecting his/her interpretation of specific thematic explorations of that location or environment. A fine art approach to this genre will be fostered through process, execution, lecture and historical comparison. Work will be presented in both traditional silver based imagery as well as digital capture and output. Prerequisite: ART-238.</p>			<p>Continuation of painting with emphasis on the development of ideas and the exploration of content. Watercolor and acrylics are explored with the aim to develop the total concepts in painting. Prerequisite ART-221 and ART-224.</p>		
ART-320	Introduction to Cartoons	3	ART-336	Contemporary Photo Techniques	3
<p>This course will deal with a variety of comic art: gag cartoons, comic strips, political cartoons, and caricatures. The students will encounter ways of developing their own characters as well as experimenting with different techniques of drawing cartoons.</p>			<p>Emphases are placed upon further explorations of photographic vision, technical concerns, aesthetic aspects of photography, and other silver processes. Specific techniques covered in a given semester will vary. Prerequisite: ART-238.</p>		
ART-321	3D Modeling and Animation I	3	ART-343	Ceramics II	3
<p>The first in a two-class progression, this course will explore various elements of computer aided three dimensional design. Students will be presented with three dimensional design theory, history, and an understanding of the tools and techniques used to model, texture, light, and render three dimensional illustrations. Pre-requisites: ART-273 and ART-260.</p>			<p>A continuation of Ceramics I with emphasis on wheel throwing, glaze formulas, and firing techniques. Prerequisite: ART-241.</p>		
ART-324	Design II: Three-Dimensional Design	3	ART-346	Painting From Life	3
<p>A series of problems exploring the various elements of design. Problems are introduced to challenge individual interpretation in three-dimensional space. Prerequisite: ART-224.</p>			<p>This class focuses on the artist's ability to articulate on a 2-D surface, what and how the student actually sees in 3-D space. This includes landscape, figurative and still-life representation. All class work will include working directly from life. The "Plein Aire" tradition of outdoor-direct painting will also be emphasized. Direct painting techniques in varying mediums including, watercolor, oil, acrylic and or mixed media will be available to the student. Prerequisite: ART-331.</p>		
ART-328	Metalsmithing II	3	ART-347	Interior Design II	3
<p>Advanced metal-forming techniques will be one of the major focuses within this course. Studio assignments will help lead students to an understanding of the ideas which have formed the basis of the new metals movement. Prerequisite: ART-228.</p>			<p>The study of interior design continues with an emphasis on residential spaces. Research, analysis, programming, conceptualization and design of the interior environment are explored. Projects include individual spaces in homes highlighting visual rendering and perspective drawing. Prerequisites: ART-141, ART-224, ART-246, ART-324.</p>		
ART-330	Stained Glass II	3	ART-348	Materials and Lighting	3
<p>An advanced course further developing the techniques of glass assemblage in various forms. Specific techniques covered in a given semester will vary. Prerequisite: ART-230.</p>			<p>This course will familiarize the student with materials, their composition, specification, construction and application. Appropriate use of materials comes from accurate information and exploration. Lighting used as a design element is addressed with the basics of electricity and electrical distribution systems. Light distribution, intensity, affects on color and energy effectiveness is addressed. Prerequisites: ART-121, ART-224, ART-247.</p>		
ART-331	Painting I	3	ART-351	Sculpture II	3
<p>An introduction to basic techniques of painting. Lectures and demonstrations will survey traditional and contemporary methods: preparation of ground, introduction to oil, methods of paint application, and handling of various pigments. Prerequisites: ART-221 and ART-324 or permission of the professor.</p>			<p>This course develops the integration of sculpture through conceptual, aesthetic, and technical investigations into advanced sculptural processes and issues, in addition to technical demonstrations. Prerequisite: ART-251.</p>		

ART-354	Commercial Interior Design	3	ART-374	Illustration I	3
<p>This studio course continues the study of interior design by examining commercial environments in terms of programming, mechanical and code requirements. Projects incorporate lighting, color, materials, technology and structure through working drawings, specification and estimating. The human relationship to the work environment is explored. Prerequisites: ART-121, ART-224, ART-246, ART-324, ART-347.</p>			<p>This course is an exploration of the concepts and techniques involved in producing illustration as a means of mass communication. Students will gain experience with a wide range of materials and learn to interpret subject matter using both traditional and contemporary approaches. A secondary emphasis is preparation for a smooth transition into the professional world and its eventual demands on the aspiring illustrator or designer. Prerequisites: ART-221 and ART-324.</p>		
ART-356	Weaving II	3	ART-375	Computer Typography	3
<p>This advanced course is a continuation into multi-harness weaving and construction weaving to develop a personal statement. Specific techniques covered in a given semester will vary. Prerequisite: ART-256.</p>			<p>This course emphasizes the importance of typography in the design process and focuses on providing the student with the digital tools and techniques necessary to achieve professional typographic solutions. Students will learn to incorporate the basic principles of typography with the essential technical skills necessary to achieve success in graphic design and advertising. Prerequisite: ART-373.</p>		
ART-357	Advanced AUTOCAD	3	ART-379	Color Theory	3
<p>The continuation of computer aided design expanding the spectrum of use from 2 dimensional design to 3 dimensional design. Rendering and perspective drawing is introduced for more exploration of higher technical use in client presentations. Prerequisite: ART-121, ART-224, ART-246, ART-324, ART-347.</p>			<p>Designed to develop an advanced understanding of color in terms of light and pigment; and subtractive and additive processes. Prerequisites: ART-221 and ART-324.</p>		
ART-366	Printmaking II	3	ART-380	The History of American Illustration	3
<p>A continuation and specialization of skills in a specific area of printmaking. Prerequisites: ART-221 and ART-266.</p>			<p>The history of American Illustration is a course developed for the student who aspires to study the history of illustration and its influence upon an American audience. This course is an exploration into the lives of illustrators and their paintings from the Civil War period to the major artistic influences of today. From primitive engravings to elaborate full-color paintings, the student will investigate a culture transformed by the revolution of technology as expressed through the mind and hands of illustrators. Their indelible mark of creativity and imagination will be the core of our research and study. Prerequisites: ART-121, ART-221, ART-224.</p>		
ART-371	Art for Elementary Teachers	3	ART-381	Art History I	3
<p>A course designed to acquaint the elementary major with many methods of teaching art in the public school. It includes teaching techniques and skills in handling the various art materials suitable for the elementary school classroom. A strong emphasis is placed on correlating art into the other elementary subjects.</p>			<p>Prehistory and the Ancient World through the Middle Ages. This course uses lecture, slides, and field trips to thoroughly understand the development of art during these periods. Prerequisite: MUS-180.</p>		
ART-371P	Elementary Art Practicum	1	ART-382	Art History II	3
<p>This course provides a practicum experience for K-12 art education majors in elementary-level classrooms in public or private schools. Students will observe an experienced elementary art teacher who will serve as the supervising teacher for the experience. Students will teach a minimum of 3 lessons in the elementary art classroom, and will be observed and evaluated by both IWU art and education faculty. Graded as a Credit/No Credit class. Co-requisite: ART-371. Permission of the Division of Education to take this course in conjunction with EDU-382C.</p>			<p>The Renaissance and the Baroque through the Modern World. This course uses lectures, slides, and field trips to better understand the continuing development of art to our present time. Prerequisite: MUS-180.</p>		
ART-373	Introduction to Computer Graphics	3	ART-383	Early Renaissance	3
<p>This course is designed to introduce students to graphics-oriented computer hardware and software. Emphasis will be on developing competence and familiarity with Macintosh Systems operation, terminologies and components of computerized graphics, and procedures in the creation of typography and illustration. Black-and-white and color systems are used. Prerequisite: ART-221, ART-280, and ART-324.</p>			<p>Painting, sculpture, and architecture from the 13th century to the 16th century with special emphasis on the Early Renaissance in Italy. Prerequisite: MUS-180.</p>		

<p>ART-384 High Renaissance 3</p> <p>An in-depth study of the climax of art in Italy (1495-1520) and its influence in other countries of Europe. Prerequisite: MUS-180.</p>	<p>ART-434 Digital Photography 3</p> <p>A course designed to introduce digital photography to the traditional photography and graphic design student. This course will instruct students in the manipulation, retouching, and enhancing capabilities of powerful software programs. Students will be capable of bringing images in through film and flatbed scanners as well as state-of-the-art digital cameras. Prerequisite: ART-238.</p>
<p>ART-385 Baroque Art 3</p> <p>Study of the impact of the Reformation and Baroque influence on European art from 1580 to 1720. Prerequisite: MUS-180.</p>	<p>ART-435 Photo Illustration and Lighting Techniques 3</p> <p>An advanced photography studio course that will focus on portrait, product, and studio illustration lighting techniques. Students will learn how to professionally photograph using studio lights with s mall, and medium, and large format equipment for commercial and fine art applications. Emphasis will be placed on preparing students and their portfolios for presentation into the competitive art field. The computer graphics lab will be available to students who have met the proper prerequisites. Prerequisites: ART-238 and ART-336.</p>
<p>ART-386 Impressionism 3</p> <p>Painting and sculpture of the Nineteenth Century with special emphasis on French Impressionism. Prerequisite: MUS-180.</p>	<p>ART-436 Computer Illustration 3</p> <p>This course covers illustration techniques using the computer. Students will learn how to explore, adapt, and create new techniques using the industry's most used and current software. Prerequisite: ART-434.</p>
<p>ART-387 Modern Art 3</p> <p>Survey of international art from post-Impressionism to the present time, including architecture, sculpture, and painting. Prerequisite: MUS-180.</p>	<p>ART-437 Web Design 3</p> <p>This is a course that will give the art students the ability to apply their talents to web design. Students will become proficient in the use of HTML coding and the use of industry standard and professional software authoring programs. The primary focus of this course will be to prepare fine art students for web based graphic design for Internet or Intranet. Prerequisite: ART-434.</p>
<p>ART-399H Honors Thesis/Project 3</p>	<p>ART-441 Ceramics III 3</p> <p>A continued development, exploration, and practical application of technologic and aesthetic concepts that relate to a personal direction and a focusing area of concentration. Prerequisites: ART-241 and ART-343 or permission of the professor. May be repeated two times.</p>
<p>ART-420 Three Dimensional Computer Design 3</p> <p>This course explores the development of three-dimensional designs using the aid of the computer and 3-D design software. A basic study of object creating, mapping, animation, wrapping, lighting and rendering will be explored in order to develop the computer illustration. A thorough knowledge of the Macintosh platform, PhotoShop and Illustrator will be needed before taking this course. Prerequisites: ART-373, ART-434 and ART-436.</p>	<p>ART-442 Ceramics IV 3</p> <p>This is a flexible, self-directed seminar/portfolio course designed for the advanced ceramics major who intends to further his/her studies in clay. The course work allows the student to develop a style and body of work focused on his/her personal direction in clay. This course allows the student maximum freedom to define and develop directions in personal artistic growth and evolution while receiving guidance and criticism from the faculty member. Prerequisite: ART-441.</p>
<p>ART-424 Product Photography 3</p> <p>This course offers an advanced examination into the use of large format cameras and product photography. Students will learn how to visually analyze light and photograph commercial products and three-dimensional objects as a primary reference. Prerequisite: ART-238.</p>	
<p>ART-430 Stained Glass III 3</p> <p>An exploration in techniques dealing with flashing, slump, multi-layering, and assembling will be explored in this advanced class. Prerequisite: ART-330.</p>	
<p>ART-431 Contemporary Painting Techniques 3</p> <p>Continued development of various painting techniques. The student is encouraged to develop a personal statement by means of specific projects. Prerequisites: ART-331 and ART-332.</p>	

ART-446	Portrait Painting	3	ART-474	Illustration II	3
<p>This is an advanced painting class using oil mediums. It emphasizes direct painting techniques from live models. It is designed to encourage an exploration of personal style and working methods from life and add to the advanced painting students' professional portfolio. Prerequisite: ART-331.</p>			<p>An advanced course that will challenge technical proficiency, enhance conceptual abilities, and strengthen visual communication skills. This course will endeavor to strengthen a signature style and in incorporate a technique that will survive in the marketplace of commercial illustration. The final result of the course and the student's efforts will ideally produce a portfolio that communicates a high level of professional skill. Prerequisites: ART-221 and ART-374 or permission of the professor.</p>		
ART-452	Evolution of Interiors	3	ART-476	Art Enrichment	3
<p>This course offers a chronological survey of interiors from antiquity to present day with reference to cultural, political, social, economic and technological movements that impacted its development. Lectures, projects, field trips and discussion will aid with experiencing the styles first hand. Prerequisites: ART-121, ART-224.</p>			<p>Includes trips to surrounding cities and states and to foreign countries to see spectacular pieces of art, sculpture, and architecture. An in-depth study of museums, churches, and cultural atmosphere of the country. May be repeated.</p>		
ART-456	Weaving III	3	ART-477	Thematic Illustration III	3
<p>This course is for the advanced weaver to develop skills in patterns, double-layer weaving, and yardage for wearables. Prerequisite: ART-356.</p>			<p>This course is developed for the student who aspires to apply the sequential process of story-telling through the format of children's literature and film. This class will expose the aspiring illustrator to the pattern and rhythm of communicating a central theme. Thematic illustration is a research-based class which will immerse the student into the process of developing an image and concept from the primitive sketch to the final image. Arranged museum visits, lecture and the demonstration of painting techniques will reaffirm drawing, painting and design skills. Prerequisites: ART-374 and ART-474.</p>		
ART-458	Fine Art Photography	3	ART-478	Art Internship	
<p>This course will introduce students to traditional and contemporary approaches to fine art photography. This is a logical and sequential course for students coming out of the Introduction to Photography and Introduction to Computer Graphics courses. This course is based on the premise that photography is a fine art form that may have finality in both the traditional silver and digital print. Prerequisites: ART-238 and ART-373.</p>			<p>As an alternative course selection, the Art Internship provides Art majors an opportunity for directed study in art with a professional agency. The purpose of the internship is to provide awareness and understanding of art in the professional studio/agency and/or the art process through observation and participation. Enrollment in the course requires the approval of the faculty student advisor and the Department Chairperson; the course may be repeated. Based on individual academic program and career objectives, the internship student will be placed with an appropriate professional agency or studio. Since the number and variety of participating professionals is limited, students are encouraged to make contact with the desired agency/studio well in advance of the internship semester.</p>		
ART-459	Interior Graphic Presentation	3	ART-481	Studio Practicum	
<p>This studio course challenges the interior design student with complex projects having extensive client demands. High creativity and problem solving skills will be stretched while achieving solutions through programming, materials and finishes selection. Prerequisites: ART-121, ART-224, ART-246, ART-324, ART-347, ART-354, ART-457, ART-357.</p>			<p>A course in which the student produces, with faculty supervision, sellable work in his or her area of expertise, working under individual studio conditions. Prerequisites: ART-480 and permission of the professor.</p>		
ART-466	Printmaking III	3	ART-490	Senior Exhibit - Art	
<p>Advanced processes in stone and metal plate lithography are introduced and explored in depth. Silk-screen printing covers direct and indirect stencil techniques, with emphasis on large-scale color work. A high level of technical competence will be expected and should be demonstrated throughout this course. Prerequisite: ART-366.</p>			<p>During the senior year, each student is required to schedule an exhibit of the best of his work of his four years of university study. Art education majors may not schedule senior exhibits during the semester when student teaching occurs.</p>		
ART-473	Advanced Computer Graphics	3			
<p>An advanced course that will build upon the student's initial experience with computers in computer graphics and digital photography. Students will use and integrate several computer graphic programs currently used in the computer design field. Emphasis will be placed on preparing students and their portfolios for entrance into the computer design field. Prerequisites: ART-373 and ART-434.</p>					

ART-491	Senior Seminar and Portfolio	3	ATR-220	Therapeutic Modalities	3
<p>This is a capstone course for exiting seniors. The course will address portfolio, promotional and business ethics and other responsibilities in preparing students entering this field. Students will develop CD promotionals, resumes, and cover letters in addition to their traditional portfolio. Internships, field trips, guest lecturers and making potential employee contacts will be a significant part of the class experience. Requirement: to be taken during senior semester.</p>			<p>Familiarizes the athletic training student with contemporary physical modalities, of acute care of injuries, appropriate physiology, indications, contraindications, uses, and methods of applications. Prerequisite: Instructor permission only.</p>		
ART-492	Interior Design Senior Seminar	3	ATR-225	Lower Extremity Evaluation and Assessment	2
<p>This course provides the student with the opportunity to develop a professional working portfolio. Emphasis is placed on developing a strong body of work when considering the students expertise. Career focus and optional internship may be included in this course completion. (Prerequisite: ART-121, ART-224, ART-246, ART-324, ART-347, ART-354, ART-357, and ART-459.</p>			<p>An in-depth study of the lower extremity, focuses on the development of clinical evaluation and assessment techniques. Prerequisite: Instructor permission only .</p>		
ATR-195	Introduction to Athletic Training	2	ATR-226	Upper Extremity Evaluation and Assessment	2
<p>An introduction into the field of athletic training with attention to the six major practice domains of Certified Athletic Trainers (ATC).</p>			<p>An in-depth study of the upper extremity, focuses on the development of clinical evaluation and assessment techniques. Prerequisite: Instructor permission only.</p>		
ATR-196	Athletic Training Clinical Education Experience I	1	ATR-231	Advanced Athletic Training	2
<p>Provides the rationale for the use of taping and wrapping in athletics, as well as practical experience in applying commonly used taping and wrapping techniques. To be taken in conjunction with ATR-195. Fee assessed for taping materials. This clinical course is taken during prospective athletic training students direct observation clinical rotations. Formal evaluation of student performance during the clinical rotation will occur at the conclusion of the course. Instructor permission only.</p>			<p>An overview of signs and symptoms of athletic injuries as well as an introduction to injury recognition and assessment.</p>		
ATR-197	Athletic Training Clinical Education Experience II	1	ATR-296	Athletic Training Clinical Education Experience III	1
<p>American Red Cross CPR/AED provides instruction into the development of an Emergency Action Plan and process, universal precautions, and emergency care of athletic injuries. To be taken in conjunction with ATR-231. This clinical course is taken during prospective athletic training students direct observation clinical rotations. Formal evaluation of student performance during the clinical rotation will occur at the conclusion of the course. Prerequisite: Instructor permission only.</p>			<p>Provides the athletic training student the opportunity to put into practice the theory and practical skills of upper extremity evaluation and assessment. This clinical course is taken during athletic training students upper or lower extremity clinical rotations. Formal evaluation of student performance during the clinical rotation will occur at the conclusion of the course. Prerequisite: Instructor permission only.</p>		
ATR-199	Athletic Training Practicum I	1	ATR-297	Athletic Training Clinical Education Experience IV	1
<p>Overview of the history of the National Athletic Trainers' Association, the qualifications of a certified athletic trainer, the general job responsibilities of a certified athletic trainer, different employment settings, BOC exam requirements, maintaining professional certification and credentials, etc. Practicum I requires 100 clinical hours with a formal evaluation of student performance during hour acquisition at the conclusion of the course. 75 of these required hours can be used for a prospective athletic training student's application to the athletic training education program. Prerequisite: Instructor permission only.</p>			<p>Provides the athletic training student the opportunity to put into practice the theory and practical skills of upper extremity evaluation and assessment. This clinical course is taken during athletic training students upper or lower extremity clinical rotations. Formal evaluation of student performance during the clinical rotation will occur at the conclusion of the course. Prerequisite: Instructor permission only.</p>		
			ATR-299	Athletic Training Practicum II	1
			<p>Focuses on disease, disabilities and factors (congenital or acquired) as it relates to an athletes ability to participate in activity. Topics will include, but not be limited to, epilepsy, asthma, loss of extremities, preadolescents and senior athletes, diabetes, skin conditions, etc. Practicum II requires 100 clinical hours that are part of the athletic training students general medical clinical rotation. Formal evaluation of student performance during hour acquisition will occur at the conclusion of the course. Prerequisite: Instructor permission only.</p>		

<p>ATR-320 Special Topics Seminar in Athletic Training 1</p> <p>This special topics seminar is designed to discuss and research professionally-related issues and concepts of athletic training. Topics are presented by allied health care professionals including, but not limited to, physical therapists, nurses, massage therapists, dentists, etc. Prerequisite: Permission of the department.</p>	<p>ATR-399 Athletic Training Practicum III 1</p> <p>Focuses on all aspects of prevention as it relates, but not limited, to athletic injuries and conditions, liability/legal issues, and facility/equipment issues. Practicum III requires 100 clinical hours that are part of the athletic training students equipment intensive clinical rotation. Formal evaluation of student performance during hour acquisition will occur at the conclusion of the course. Prerequisite: Instructor permission only.</p>
<p>ATR-331 Therapeutic Exercise and Rehabilitation 3</p> <p>Presents treatment theories and techniques necessary in the planning and implementation of therapeutic exercise for prevention and recovery of athletic injuries and/or care of the athlete. Prerequisite: Instructor permission only.</p>	<p>ATR-431 Evaluation and Recognition of Athletic Injuries 2</p> <p>An in-depth study of recognition, assessment, and evaluation techniques of athletic injuries used in the field of sports medicine for musculoskeletal, internal, systemic, and environmental injuries and conditions. Prerequisite: Instructor permission only.</p>
<p>ATR-332 Therapeutic Exercise and Rehabilitation I 2</p> <p>This course is designed to teach the athletic training student current principles and rationale in designing therapeutic exercise and rehabilitation programs. Prerequisites: BIO-111 and BIO-112.</p>	<p>ATR-440 Pharmacology for the Athletic Trainer 2</p> <p>This course is designed to guide the athletic training student in the recognition of commonly prescribed medications used by the physically active. Basic information will be presented including effects on exercise and other physiological effects of various types of medications. Use of nutritional supplementation and ergogenic aids, including current NCAA and USOC status, is also addressed. Prerequisite: Instructor permission only.</p>
<p>ATR-333 Therapeutic Exercise and Rehabilitation II 2</p> <p>This course is designed to teach the athletic training student how to apply current techniques in therapeutic exercise and rehabilitation as well as utilize technology and equipment that can aid in the recovery of musculoskeletal injuries, conditions and various surgical procedures. Prerequisites: BIO-111 and BIO-112.</p>	<p>ATR-450 Senior Seminar in Sports Medicine 2</p> <p>This course is designed to prepare the athletic training student for the Board of Certification Examination. The student will be advised on current test taking strategies and job placement preparation. Prerequisite: Instructor permission only.</p>
<p>ATR-350 Seminar in Athletic Training 1</p> <p>Series of professional topics relating to athletic training, involving problem solving, and arranged readings and presentations. Prerequisite: Permission of instructor.</p>	<p>ATR-492 Administration of Athletic Training 2</p> <p>In-depth study of administrative issues affecting the athletic trainer such as budget designs, facility planning, legal aspects of sports medicine, drug testing/drug evaluation, health care administration, and professional development and responsibility. Prerequisite: Instructor permission only.</p>
<p>ATR-396 Athletic Training Clinical Education Experience V 1</p> <p>Provides the athletic training student the opportunity to put into practice the theory and practical skills of therapeutic modalities, and application and design of protocols learned in the classroom. This clinical course is taken during athletic training students upper or lower extremity clinical rotations. Formal evaluation of student performance during the clinical rotation will occur at the conclusion of the course. Prerequisite: Permission of instructor.</p>	<p>ATR-495 Athletic Training Practicum IV 1</p> <p>Introduction to various areas of health professions research, the development of a research proposal and project, and case study/published journal critiques. Practicum IV requires 100 clinical hours that are part of the athletic training students research study. Formal evaluation of student performance during hour acquisition will occur at the conclusion of the course. Prerequisite: Instructor permission only.</p>
<p>ATR-397 Athletic Training Clinical Education Experience Vi 1</p> <p>Provides the athletic training student the opportunity to put into practice the theory and practical skills of rehabilitation protocols; and design of strength and conditioning programs. This clinical course is taken during athletic training students upper or lower extremity clinical rotations. Formal evaluation of student performance during the clinical rotation will occur at the conclusion of the course. Prerequisite: Permission of instructor.</p>	

<p>ATR-496 Athletic Training Clinical Education Experience VII 1</p> <p>Provides the student the opportunity to put into practice the theory and practical skills of fitting, fabricating and using protective equipment and devices. This clinical course is taken during athletic training students upper or lower extremity clinical rotations. Formal evaluation of student performance during the clinical rotation will occur at the conclusion of the course. Prerequisite: Permission of instructor.</p>	<p>BIL-107 Psalms and Proverbs for Life 3</p> <p>This course engages the Old Testament books of Psalms and Proverbs with a view to personal and corporate spiritual formation. Prerequisite: BIL-101.</p>
<p>ATR-497 Athletic Training Clinical Education Experience VIII 1</p> <p>Provides the athletic training student the opportunity to put into practice the theory and practical skills relating to counseling and ethical considerations in athletic training. This course will also discuss and research professionally-related issues and concepts in the health care field. Topics are presented by allied health care professionals including, but not limited to, physical therapists, nurse practitioners, massage therapists, dentists, physicians, etc. This clinical course is taken during athletic training students upper or lower extremity clinical rotations. Formal evaluation of student performance during the clinical rotation will occur at the conclusion of the course. Prerequisite: Permission of instructor.</p>	<p>BIL-120 Themes in Biblical Literature 3</p> <p>This course will explore Biblical passages which exemplify major themes of the Bible in order that the student will gain an overall understanding of the message of this significant historical, literary, and religious text. Themes which will be explored include the nature of God, creation, sin and human nature, covenant, the Messiah, atonement, faith, eternal life and the resurrection, hope, and the ethic of love. The impact of these themes on history and current life will be emphasized.</p>
<p>BIL-101 Old Testament Survey 3</p> <p>A study of the Old Testament, highlighting the cultural background underlying the books of the Old Testament. Topics include major archaeological finds, Old Testament culture as it relates to today's culture, and the foundational relationship between the Old Testament and the New Testament.</p>	<p>BIL-201 Methods in Bible Study 3</p> <p>A study of assumptions, procedures, and guidelines to be used in understanding the Bible. Emphasis is upon refinement of the student's skills in observation and interpretation. The course is designed to develop the student's ability to study the Scriptures accurately, systematically, and independently as a basis for all further personal and professional use of the Bible. Prerequisites: BIL-101, BIL-102, BIL-120 or department permission.</p>
<p>BIL-102 New Testament Survey 3</p> <p>This course covers the literature of the New Testament. Special attention will be given to the life of Christ and the history of the early church, including the life of Paul.</p>	<p>BIL-202 Inductive Bible Study 3</p> <p>This course studies the basic principles involved in the study of the Bible. Assumptions concerning scriptural authority are presented as well as procedures for careful observation, analysis and interpretation of the text. Particular attention is given to the use of scriptures as a foundation for expository preaching and theological reflection. This course is the prerequisite for all upper-level Bible courses offered in the Division of Religion and Philosophy. Prerequisites: BIL-101 and BIL-102 or permission of the department. Not available to students with credit in BIL-201.</p>
<p>BIL-103 Bible Land Tour 3</p> <p>This course comprises daily lectures on a tour to the Near East with Israel as the main focus. It involves a study of actual Biblical sites, especially those revealed by archaeological excavations. While the major emphasis will be the biblical history in its geographical setting, much will be learned about the religions of Judaism and Islam, the present social structures of society in Israel, and the existing tensions between Jew and Arab.</p>	<p>BIL-203 Advanced Inductive Bible Study 3</p> <p>This course is an advanced course to further develop Biblical study skills initially discovered in BIL-201 Methods in Bible Study or BIL-202 Inductive Bible Study. It will further broaden the assumptions, procedures, and guidelines in the interpretation of the Bible. Emphasis is placed upon the refinement of the student's skills in observation, interpretation, and application. The course is designed to develop the student's ability to study the Scriptures accurately, systematically, and independently as a basis for both personal and professional use of the Bible in the future. Prerequisite: BIL-201 or BIL-202.</p>
<p>BIL-105 Bible Lands Geography 3</p> <p>The course is a physical and topographical study of the lands of the Old and New Testament with a blending of historical and ethnic backgrounds. Although the concentration of study will be on Canaan or Israel proper, a general survey of the Semitic and Mediterranean world will be included. Prerequisites: BIL-101 and BIL-102.</p>	<p>BIL-231 Biblical Archaeology 3</p> <p>An investigation into the methods and details of the science of archaeology. Special interest will be expressed in explorations of the last hundred years in the Near East with special attention given to how these findings relate to Scripture. Chronologically, the time covered will be from about 10,000 BC to 200 AD. Prerequisite: BIL-101 or permission of instructor.</p>

BIL-235	Life and Letters of Paul	3	BIL-302	Historical Books	3
<p>This course surveys the life, ministry, letters, and thinking of the apostle Paul as found in the book of Acts and his own letters.</p>			<p>A study of each of the historical books from Joshua to Esther, tracing the history of Israel from the entrance into Canaan through the exile and return. Prerequisite: BIL-202 or BIL-203 or permission of instructor.</p>		
BIL-240	Teaching the Bible to Adults	3	BIL-303	Synoptic Gospels	3
<p>A course exploring the methods of teaching the Bible to adults seeking life change. The course content includes adult learning theory, adult teaching methods, and small group leadership skills. As part of the course each student completes a segment of practice teaching both in and out of the classroom which is evaluated professionally with an eye toward improvement. Prerequisites BIL-101 and BIL-102.</p>			<p>An intensive study of the Gospel of Mark, with attention given to the parallel accounts in Matthew and/or Luke. Examination of unique material in the first and third gospels. Special note will also be made of various solutions to the synoptic problem and to such concepts as the Messiah and the Kingdom of God. Prerequisite: BIL-202 or BIL-203 or permission of instructor.</p>		
BIL-280	Lands of the Bible	3	BIL-304	Johannine Literature	3
<p>An advanced study of the lands of the Biblical text with focus on the land of Israel. Emphasis will be given to the geographical and topographical features of the land that bring insight and understanding to major events in the Old Testament, the ministry of Jesus, and the journeys of Paul. Additional focus will be given to the historical and cultural implications of these Biblical events. Subjects of interest would include how geography and topography affected the settlement of people groups, trade and travel, internal and international war, economic advancement, social and religious customs, and the spreading of the gospel to the Gentile world. Prerequisite BIL-101 and BIL-102.</p>			<p>A study of the Gospel of John and the three Epistles. Such concepts as Logos, truth, life, light, and love will be given special attention. Prerequisite: BIL-202 or BIL-203 or permission of instructor.</p>		
BIL-281	Jerusalem and Its People	1	BIL-333	Biblical Foundations of Worship	3
<p>This course will investigate the importance and development of the city of Jerusalem from its initial settlement through the modern era. Particular attention will be given to Jerusalem's geographical setting and archaeological remains. In addition, the city's theological significance for Christianity, Judaism, and Islam will be discussed. Prerequisites: BIL-101 and BIL-102.</p>			<p>Explores worship in the Old and New Testaments in context with other worship patterns of the day. Traces liturgy, Scripture, music, sacred sign-acts, symbolism, festivals, and sacred space as elements of worship through Bible history. Also examines passages relevant to understanding a biblical theology of worship.</p>		
BIL-282	Art, Architecture, Artifacts of Biblical	1	BIL-382	Inter-Testament Literature	3
<p>The objective of this museum course is to examine first-hand the evidence that illuminates the context of the biblical narrative. Cultures of interest include those of Syria-Palestine, Transjordan, Egypt, Mesopotamia, and the Mediterranean world. This class may be repeated one time in a subsequent semester upon permission of the professor. Travel and entrance fees required. Prerequisites: BIL-101 and BIL-102 or permission of the Division.</p>			<p>A study of the history and literature of the period between Malachi and the New Testament. Special emphasis will be on the background from which New Testament movements came. Offered alternate years. This course satisfies either Old or New Testament requirements.</p>		
BIL-301	Pentateuch	3	BIL-391	Directed Studies in Biblical Literature	
<p>The first five books of the Bible are studied as organized wholes. The origin of the world, the creation of man, the calling of Israel, and her place in the plan of redemption are noted throughout. Prerequisite: BIL-202 or BIL-203 or permission of instructor.</p>			<p>This course prepares students to perform basic research in which they learn to use Off Campus Library Services (OCLS), electronic periodical indexes, and information resources. Students will identify and select appropriate material for inclusion in a college level research project which will be submitted at the conclusion of the course.</p>		
			BIL-399H	Honors Thesis/Project	3
			<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>		
			BIL-402	Major Prophets	3
			<p>The office and function of Hebrew prophecy is noted and the books of Isaiah, Jeremiah, Ezekiel, and Daniel are studied in the light of their own times. Prerequisite: BIL-202 or BIL-203 or permission of instructor.</p>		

BIL-403	Minor Prophets	3	BIL-416	Hebrews	3
<p>The twelve books designated as minor are studied in similar manner as the Major Prophets. Prerequisite: BIL-202 or permission of instructor. Offered alternate years.</p>			<p>A detailed and analytical study of Hebrews. Prerequisite: BIL-202 or permission of department. Offered alternate years.</p>		
BIL-404	Acts of the Apostles	3	BIL-422	Greek Bible	3
<p>Primarily a study of the Book of Acts. Attention will be given to the development of the concept of the church, as well as its historical setting in the first two centuries of the Christian era. Prerequisite: BIL-202 or BIL-203 or permission of instructor.</p>			<p>A study of selected New Testament passages in the original Greek. This course expands vocabulary and builds depth in one's understanding of Greek morphology, syntax, and semantics. Prerequisite: Beginning Greek competence or permission of department. Can be repeated.</p>		
BIL-407	The General Epistles	3	BIL-430	Advanced Topic in Biblical Studies	3
<p>A detailed and analytical study of James, 1 Peter, 2 Peter, and Jude. Prerequisite: BIL-202 or permission of department. Offered alternate years.</p>			<p>This course covers a specialized and advanced topic in biblical studies that is not covered in the normal curriculum. It is always offered with a subheading and is repeatable under a different subheading. Prerequisite: BIL-202.</p>		
BIL-408	The Apocalyptic Literature	3	BIL-480	Archaeology of Syria-Palestine	3
<p>A careful study of the Revelation and its relationship to the book of Daniel and to other apocalyptic writings. Prerequisite: BIL-202 or permission of instructor. Offered alternate years.</p>			<p>This class will be held in the land of Israel and will require student participation in archaeological field work. While digging, areas of focus will include archaeological techniques and methods, and the analysis of pottery and stratigraphy. In addition, the interpretation of stratigraphy and artifacts at key archaeological sites in Israel will be considered as well as current debates and discussions among archaeologists. Prerequisite: BIL-101 and BIL-102 or permission of Division.</p>		
BIL-410	Wisdom Literature	3	BIO-102	Human Biology	4
<p>A detailed and analytical study of the wisdom books in the Old Testament, specifically, Job, Proverbs, Ecclesiastes, and Song of Songs. Prerequisite: BIL-202 or BIL-203 or permission of department.</p>			<p>Introductory course designed for students not majoring in science or the allied health professions. Human biology provides the student with a general overview of the organization, structure, and function of the major organ systems in the human body in a one semester course. Co-requisite: BIO-102L. This course with its co-requisite laboratory fulfills the general education lab science requirement.</p>		
BIL-411	Psalms	3	BIO-102L	Human Biology Laboratory	0
<p>A detailed and analytical study of the Book of Psalms. Prerequisite: BIL-202 or permission of department. Offered alternate years.</p>			<p>Selected laboratory experiences in human biology, designed to coincide with and complement BIO-102. Co-requisite: BIO-102.</p>		
BIL-412	Romans and Galatians	3	BIO-105	Heredity and Disease	4
<p>A detailed and analytical study of Paul's letters to the Romans and the Galatians. Prerequisite: BIL-202 or BIL-203 or permission of department.</p>			<p>This course provides the student with an introduction to the major diseases of the human condition. Specific aspects of selected hereditary and non-hereditary diseases will be covered including, but not limited to: genetic propensity, major risk factors, incidence in the population, and morbidity and mortality. Prerequisite: None. Co-requisite: BIO105L. This course with its co-requisite laboratory fulfills the general education lab science requirement.</p>		
BIL-413	The Corinthian and Thessalonian Letters	3	BIO-105L	Heredity and Disease Lab	0
<p>A detailed and analytical study of Paul's letters to the Corinthians and the Thessalonians. Prerequisite: BIL-202 or permission of department. Offered alternate years.</p>			<p>Lab to be taken concurrently with BIO-105 Heredity and Disease. Co-requisite: BIO-105.</p>		
BIL-414	The Prison Epistles	3			
<p>A detailed and analytical study of Ephesians, Philippians, Colossians, and Philemon. Prerequisite: BIL-202 or permission of department. Offered alternate years.</p>					
BIL-415	Pastoral Epistles	3			
<p>A detailed and analytical study of Paul's letters to Timothy and Titus. Prerequisite: BIL-202 or permission of department. Offered alternate years.</p>					

BIO-106	Environment and Society	4	BIO-112	Anatomy and Physiology II	4
<p>This course is an introduction to ecological principles and their relevance to human impact on the natural environment. Issues to be covered include natural resources, legislative changes, terminology, urbanization, pollution, environmental ethics, and population dynamics. Co-requisite: BIO-106L. This course with its co-requisite laboratory fulfills the general education lab science requirement.</p>			<p>A continuation of Anatomy and Physiology I. Functions of the cardiovascular, respiratory, digestive, and urogenital systems will be covered. Prerequisite: BIO-111, passed with a grade of "C-" or above. This course does not count toward a Biology major. Co-requisite: BIO-112L.</p>		
BIO-106L	Environment and Society Lab	0	BIO-112L	Anatomy and Physiology II Lab	0
<p>Includes selected laboratory experiences to accompany BIO-106. Lab times will include field trips, group discussions, and environmental education of local issues. Co-requisite: BIO-106</p>			<p>Lab taken as a co-requisite to BIO-112.</p>		
BIO-108	Introductory Field Biology	4	BIO-113	Introductory Microbiology	4
<p>A course designed for non-science majors and those interested in teaching science at the elementary school level. Emphasis will be on learning to visually recognize and identify the common flowers, trees, insects, and invertebrates of the Midwest. Taxonomy will include limited scientific nomenclature. The course will include numerous field trips, the use of taxonomic keys, and the collection and preservation of specimens to be used as references in the classroom. This course fulfills the general education lab science requirement.</p>			<p>Basic principles describing the characteristic of micro-organisms with an emphasis on structure, metabolism, and genetics. Microbial diseases and infectious cycles will include bacteria, viruses, fungi, protozoa and helminthes. An emphasis will be given to the communicable diseases and the routes of entry for infectious diseases. Antibiotic resistance, immunology, and pathogenesis will also be discussed. Important diseases caused by the major microbial groups will be related to the rationale for vaccinations. This course does not count toward a biology major. Co-requisite: BIO-113L.</p>		
BIO-109	Forensic Science (with Lab)	4	BIO-113L	Introductory Microbiology Lab	0
<p>Forensic Science takes the student into the world of scientific problem solving by creating new "crime scenes" periodically throughout the semester. Students will be expected to observe the scene, collect evidence, formulate possible hypotheses, analyze the evidence with the appropriate analytical techniques, and draw conclusions based on their results. The course is designed to teach students scientific reasoning, data collection, and the confirmation or rejection of possible hypotheses. There is no prerequisite or co-requisite for this course, other than a strong motivation to learn. This course fulfills the general education lab science requirement.</p>			<p>Lab taken as a co-requisite to BIO-113.</p>		
BIO-111	Anatomy and Physiology I	4	BIO-125	Principles of Biology	4
<p>An integrated course covering the structure and function of approximately half of the systems in the human body. Organization of the body and principles of support, movement, and control systems will be covered. Prerequisite: Math SAT 400 or above; SAT I 440 or above; ACT 18 or above. Co-requisite: BIO-111L. This course with its co-requisite laboratory fulfills the general education lab science requirement.</p>			<p>The fundamental principles of genetics, cell development, and structure and function in cells, membranes, and molecules as related to organisms are covered. Representative life processes, organisms, and bio-techniques are studied from the cellular perspective to illustrate biological principles. Emphasis is placed upon man's real progress in coping with the new knowledge of biology and its effects on society's perspective about how the knowledge should be used. Prerequisite: Math SAT 440 or above; SAT I 480 or above; ACT 20 or above; or CHE-110 with a grade of "C" or better. This course fulfills the general education lab requirement.</p>		
BIO-111L	Anatomy and Physiology I Lab	0	BIO-201	Animal Biology	4
<p>This lab is taken as a co-requisite to BIO-111.</p>			<p>A study of the classification, morphology, physiology, and natural history of invertebrate and vertebrate animals, including their importance to man. Prerequisite: BIO-125.</p>		
			BIO-202	Plant Biology	4
			<p>A study of the classification, morphology, and physiology of plants, including their importance to man. A significant part of the course involves learning to recognize plant families and major tree species found in the Midwest. Prerequisite: BIO-125.</p>		

BIO-203	Environmental Conservation	3	BIO-302	Entomology	3
<p>An ecological approach to the study of conservation of natural resources as related to current environmental problems. Three one-hour periods per week . Does not count toward the Biology major for students entering the biology major after Fall 2002. Prerequisite: BIO-125.</p>			<p>A study of the anatomy, physiology, identification, classification, life cycles, habits, and adaptations of insects. Prerequisite: BIO-125.</p>		
BIO-204	Ornithology	3	BIO-303	Marine Ecology	3
<p>A study of the morphology, natural history, identification, and conservation of birds. Emphasis placed on field work. Prerequisite: BIO-125.</p>			<p>A course in the ecology of the coral reef, including selected aspects of oceanography. A two-week camping trip to the Caribbean is included. Prerequisites: BIO-301, SCUBA certification, and permission of instructor.</p>		
BIO-210	Human Genetics	3	BIO-311	Mammalian Anatomy	4
<p>This course will introduce the student to current human genetic knowledge about the chemistry of the gene, human biochemical and molecular level inheritance, and somatic/germ cell genetics. This study will relate the course content with previous classical approaches and build toward an understanding of newer cytogenetic approaches. The discussions will emphasize the molecular characterization of genotype and its relationship to phenotypic expression in birth defects and human molecular disease. This course meets science general education requirements. No prerequisites.</p>			<p>A study of the anatomy of mammals with emphasis on the anatomy of man. The laboratory work includes the dissection of a mammal. Prerequisites: BIO-125.</p>		
BIO-213	Microbiology	4	BIO-312	General Physiology	4
<p>A study of the morphology, physiology, taxonomy, and economic importance of the microorganisms. The laboratory work includes preparation of media, staining techniques, physiological tests, and identification of bacteria. This course is designed for science majors. Prerequisite: BIO-125 and CHE-126, passed with grades of "C" or above. Co-requisite: BIO-213L.</p>			<p>A study of the basic physiological processes. Consideration is given to all the organ systems of man with special emphasis in the laboratory on the neuromuscular, respiratory, and cardiovascular systems. Prerequisite: BIO-125.</p>		
BIO-213L	Microbiology Lab	0	BIO-330	Histology	3
<p>Lab taken as a co-requisite to BIO-213.</p>			<p>This course highlights normal histology and the functional significance of micro anatomical structures. The lab and lecture portions of the course are completely integrated; the amount of time devoted to lecture or lab will vary depending on the particular topic.</p>		
BIO-220	Field Biology and Natural History	3	BIO-351	Cellular Biology	3
<p>A field course designed to teach recognition of the major macro flora and fauna of the Midwest using both taxonomy and natural history. Emphasis will be placed on recognition of tree species, plant families, insect groups, fish, reptiles, amphibians, and mammals indigenous to the area. Recognition of bird songs and amphibian vocalizations will also be stressed. When practical, collections of plants and invertebrates will be required. Prerequisite: BIO-125.</p>			<p>An in-depth study of the anatomy and function of animal and plant cells. The elegance and complexity of God's design for this smallest living unit will be revealed through lectures, in-class activities, and various assignments. Prerequisites: BIO-125, CHE-125 and CHE-126.</p>		
BIO-301	Ecology	3	BIO-395	Professional Observation	1
<p>An introduction to the principles and methods of plant and animal ecology in the physical environment. Prerequisite: BIO-202 or BIO-203.</p>			<p>Observation by the pre-professional student of the professional practice of a medical doctor, dentist, optometrist, or related medical professional. Prerequisites: Junior classification and permission of pre-professional advisor.</p>		
			BIO-396	Advanced Topics in Biology	
			<p>A course in advanced topics in biology of current interest. See schedule for specific content. Can be repeated up to 12 hours. Prerequisite: Permission of instructor.</p>		
			BIO-399H	Honors Thesis/Project	3
			<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>		

BIO-411	Vertebrate Development	4	BIS-216	Information Systems and Project Management	3
<p>Study of the embryonic development of the vertebrates including man, using the frog, the chick, and the pig as types. Prerequisite: BIO-311 or permission of instructor.</p>			<p>An introduction to fundamental concepts of management information systems and project management in the information age. Addresses the impact of information systems in each of the functional areas of business to improve organizational effectiveness. Ethical considerations related to information and technology will be discussed.</p>		
BIO-412	Genetics	3	BIS-220	Analytical Thinking and Problem Solving	3
<p>An integrated lecture/laboratory course that provides a thorough analysis of the factors governing trait inheritance in plant and animal life. Prerequisite: BIO-125.</p>			<p>An introduction to managerial decision-making using information systems. Emphasis on group interaction skills in identifying causes of problems, identifying options, and proposing solutions.</p>		
BIO-432	Molecular Biology	4	BIS-222	Business Software Tools	1
<p>Significantly emphasizing laboratory techniques, this course is designed to follow either CHE-432 or BIO-351. Biomedical research topics that will be discussed and accompanied by hands-on laboratory experiments include recombinant DNA technology/genetic engineering, cloning, and basic bioinformatics.</p>			<p>This course covers a suite of productivity software tools including word processing, spreadsheet, and presentation graphics. An emphasis will be placed on spreadsheet software and how it can be used effectively as a productivity tool in business.</p>		
BIO-440	Immunology	3	BIS-224	Business Information Systems Technology	3
<p>A one-semester course which addresses the chemical and structural relationship of antigens and antibodies, the basis for immunological tolerance, T-cell development, B-cell development, autoimmune disease, cancer, and AIDS. Prerequisites: BIO-125 and either BIO-312 or BIO-403.</p>			<p>This course examines the hardware and technology used to build the infrastructure of an information system. It provides an in-depth look at networking, data communications, computer hardware components, I/O devices, storage, and Internet/Intranet technology. By learning the architecture of computing technology, students will be able to more effectively apply information technology to information systems in a business environment.</p>		
BIO-490	Biology Senior Seminar	1	BIS-225	Software Tools	3
<p>This course is intended to help science majors to synthesize, integrate, and apply their scientific understanding. The course will focus on advanced topics and on the ethical and social implications of science. Some emphasis will be given to research and to written and oral communication skills as used in the sciences. The Major Field Achievement Test in biology may be administered as a part of this course. The course is required of all majors. Prerequisite: Senior standing, science major, and completion of at least one course in the major at or above the 300 level.</p>			<p>Provides a detailed introduction to hardware and software tools with special emphasis on the Windows Operating System, word processing, spreadsheets, presentation graphics, and databases. Through guided practice, students are taught practical applications of these programs for both personal and on-the-job use. The impact of computers and information technology on the workplace is also explored. (Not open to students with credit in CIS-110; does not fulfill general education requirements in the CAS Division of Natural Science.)</p>		
BIO-495	Research in Biology		BIS-320	Managerial Relational Database Systems	3
<p>This laboratory-based course is designed for biology majors who plan on graduate-level work in biology or other related medical sciences. Each student will participate in a faculty-led research project in his/her area of interest. Prerequisite: Permission of the instructor.</p>			<p>This course develops skills in the design and implementation of business database systems using modern database tools. It covers data structures, file management, and the conceptual, logical, and physical design of databases.</p>		
BIS-215	Introduction to Business Information Systems	3	BIS-324	Networking, Systems & Security	4
<p>An introduction to fundamental concepts of management information systems in the information age. Addresses the impact of information systems in each of the functional areas of business to improve organizational effectiveness. Ethical considerations related to information and technology will be disc used.</p>			<p>This course examines the hardware and technology used to build the infrastructure of an information system. It provides an in-depth look at networking, data communications, security, systems management, and Internet/Intranet technology. By learning the architecture of computing technology, students will be able to more effectively apply information technology to information systems in a business environment.</p>		

BIS-340	Business Programming I	3	BIS-353	Web Application Development	4
<p>This course provides a general introduction to programming paradigms including procedural and object-oriented approaches. Students will learn the basics of a programming language that is widely used in the business environment. Prerequisite: BIS-220.</p>			<p>This course will introduce the principles of JavaScript control structures, various markup languages, and scripting languages. Students will develop fundamental skills in programming using client-side and server-side Internet models. In addition, students will utilize multimedia technology to design and develop web-based applications. Students will learn multi-tiered, database-intensive, Intranet/Internet applications by using ADO (ActiveX Data Objects) and SQL (Structured Query Language). Hands-on skill development is emphasized.</p>		
BIS-341	Business Programming II	3	BIS-355	Contemporary Issues and Ethics in the World of Technology	3
<p>This course extends the knowledge base of the programming language used in Business Programming I. Coding and applications development will be emphasized. Prerequisite: BIS-340.</p>			<p>This course will give students an introduction to the impact of information and technology in our world and related ethical issues. The social, political, environmental, cultural, and economic impact of emerging technology. Control issues and ethical considerations in the use of technology. The Christian worldview will be highlighted.</p>		
BIS-342	Business Programming III	3	BIS-360	Business System Analysis and Design	3
<p>This course provides an introduction to object-based programming concepts. Students will learn the basics of an object-oriented programming language that is widely used in the business environment. Prerequisite: BIS-220.</p>			<p>This course will emphasize the analysis of business problems in an organization and the subsequent design of computer systems to meet the organization's needs. Students will study the stages of system development including problem definition, consideration of alternative solutions, selection of a solution, implementation, control, and management of the system. A special emphasis is placed in the role of end users in this process.</p>		
BIS-343	Business Programming IV	3	BIS-370	Project Management and Team Leadership	3
<p>This course extends the knowledge base of the programming language used in Business Programming III. Coding and applications development will be emphasized. Prerequisite: BIS-342.</p>			<p>Through project management, students will learn how to break down a project, manage the scope and sequence of milestones, and develop cost estimates. Team leadership emphasizes the formation and effective utilization of teams in a business environment. It emphasizes group dynamics, personality styles, and leadership styles.</p>		
BIS-344	Visual Basic .Net Programming	4	BIS-410	Management of Business Information Systems	4
<p>This course provides a general introduction to object-oriented programming paradigms including procedural and object-oriented approaches. Students will learn the basics of an object-oriented programming language that is widely used in the business environment. Coding and applications development will be emphasized. Prerequisite: BIS-220.</p>			<p>In this capstone course, an emphasis will be placed on the application of information systems in each of the functional areas of business. Discussion of the information needs of management and how special tools, such as Decision Support Systems, can help meet those needs. Current topics of interest to the IS professional and society.</p>		
BIS-346	Java Programming	4	BIS-350	Web Application Development in A Business Environment	3
<p>This course provides an introduction to object-based programming concepts. Students will learn the basics of Java, an object-oriented programming language that is widely used in the business environment. Coding and applications development will be emphasized. Prerequisite: BIS-220</p>			<p>This course will introduce the principles of JavaScript control structures, various markup languages, and scripting languages. Students will develop fundamental skills in programming using the client-side Internet model. In addition, students will utilize multimedia technology to design and develop web-based applications. Hands-on skill development is emphasized.</p>		
BIS-352	Advanced Web Application Development in a Business Environment	3			
<p>Students will learn multi-tiered, database-intensive, Intranet-Internet applications by using ADO (ActiveX Data Objects) and SQL (Structured Query Language). Topics covered include server-side Internet and web-programming techniques. Prerequisite: BIS-350.</p>					

BIS-420	Business Information Systems Project I	1	BUS-105	Introduction to American Business	3
<p>During this course a facilitator will be assigned to a cohort group, and a group project will be selected. The facilitator will assist in determining the scope of the project and the actions required fulfilling the course objectives. A group will investigate, analyze, develop, implement, and document an information system for a real-world business problem. Milestones and a timetable will be established for the completion of the project. A mentoring relationship between the facilitator and cohort group will be maintained until the completion of the project in BIS-421 Business Information Systems Project II.</p>			<p>A survey of business principles, problems, and procedures including an overview of production and distribution of goods, ownership, competition, profit, managerial controls, personnel, government, and business relations.</p>		
BIS-421	Business Information Systems Project II	1	BUS-110	Business Assessment	1
<p>This course marks the completion of the cohort group project. Groups will complete each activity outlined in the first section of the course. The facilitator will help each group bring the project to closure.</p>			<p>This course provides students with a personal understanding of temperament, personal skills, and individual gifting. Additionally, the course provides students with actual tools used for employee/client assessment. No prerequisite.</p>		
BIS-450	Business Information Systems Project	4	BUS-120	Personal Income Tax Preparation	3
<p>In this capstone course, students will investigate, analyze, develop, implement, and document an information system. The project is designed to demonstrate that the student has developed the ability to integrate and apply a variety of business and information systems concepts and skills for the purposes of solving a real-world problem. Presentations are made and written reports are submitted.</p>			<p>A general course dealing with the techniques of preparing an individual's personal income tax return; a practical study of federal Form 1040, supporting schedules, and related state income tax forms. No prerequisite.</p>		
BIS-460	Business Systems Analysis and Design Seminar	4	BUS-150	Personal Finance	3
<p>In this capstone course, students will investigate, analyze, design, and document an information system. The course will emphasize analysis and investigation of business problems in an organization and the subsequent design of computer information systems to solve those problems. Students will study the entire process of systems development including problem definition, consideration of alternate solutions, selection of a solution, and implementation, control and maintenance of the system.</p>			<p>A general course dealing with the problems of the consumer in the American economic system; a practical study of personal consumption, buying habits, health and medical care, and housing; an introduction to investment; and an introduction to insurance.</p>		
BUS-100	Foundations of Business	3	BUS-175	Introduction to Personnel Supervision	3
<p>An overall view of the business field including the business environment; organization, management, and operating problems of the enterprise; financial management and the risk function; and the marketing function. No prerequisite.</p>			<p>An introduction to professional personnel development. The course emphasizes the fundamentals for constructive feedback, law governing the treatment of employees in the business setting, salary administration, performance management, benefit design, training, and development.</p>		
BUS-101	Business Ethics	3	BUS-206	Business Decisions Using Software Tools	3
<p>This course is designed to enable the student to understand the importance of ethics in business. Time is spent helping students further develop their own personal value systems and subsequently to see how their worldview impacts organizational values. Special emphasis is placed on application of Biblical principles. No prerequisite.</p>			<p>A course in using microcomputer software tools to solve business problems. Includes the use of spreadsheets and a data manager. Topics include creating graphs, using macros and data tables, and doing database queries to solve business problems. No prerequisite.</p>		
			BUS-210	Business Law	3
			<p>Designed to give a basic understanding of the law and its effects upon the world of business. Topics considered include contracts, agency, employment law, sales, commercial paper, security devices, business organizations, property, estates, bankruptcy, and the Uniform Commercial Code. Also gives credit for POL majors. Prerequisite: BUS-100. In order to waive this prerequisite, majors from other Divisions may submit a written request to the Business Division for consideration.</p>		
			BUS-215	Human Resource Management	3
			<p>An exploration of the various roles of people within the business community with emphasis on the nature of work, human efficiency and performance, leadership within work groups, and human relations problem solving.</p>		

BUS-220	Accounting for Business	3	BUS-311	Advanced Business Law	3
<p>A course in basic accounting including an emphasis on understanding how systems work, analysis of transactions, journals and ledgers, financial statements, and accounting information as a management tool.</p>			<p>This course is designed to give a more in-depth understanding of the relationship between the law and businesses, as well as to study the effect of government controls upon the business enterprise. Topics considered include the effect of the Constitution on business; antitrust law; environmental law; consumer protection; securities regulation; and international law. Prerequisite: BUS-210 and Admission to the Division.</p>		
BUS-220P	Managerial Accounting Prerequisite	0	BUS-315	Fraud Examination	3
<p>This not-for-credit course is offered in a shortened and less in-depth manner. It is a basic course in accounting including an emphasis on understanding how systems work, analysis of transactions, journals, ledgers, and financial statements. Graded on a CR/NC basis.</p>			<p>This course will enable students to learn how and why various types of frauds are committed and how they may be deterred. Students will be equipped with the professional skills necessary to detect and prevent fraud and other white-collar crimes. The material covered in this course will be of special interest to accountants, business owners/managers, auditors, loss prevention specialists, attorneys, educators, and criminologists. In addition to lectures, discussions, and textbook readings, the interactive workshops will allow students to uncover fraud in selected, realistic case studies. Prerequisite: Basic accounting.</p>		
BUS-225	Legal Environment of Business	3	BUS-320	Business Statistics	3
<p>An introduction to the legal environment of business. Emphasis will be on a realistic application of legal principles to everyday business situations.</p>			<p>This course helps students analyze and interpret statistical data. Quantitative concepts and basic techniques in research are stressed. Prerequisites: Admission to the Division and completion of the math competency requirement.</p>		
BUS-230	Global Issues	3	BUS-382	Business Administration Practicum	
<p>A consideration of the key ecological, social, economic, and political issues confronting the business world as it enters the 21st century.</p>			<p>An opportunity for advanced students to obtain valuable work experience and gain expertise in relating classroom material to actual business endeavor. A professional-quality paper analyzing one or more business applications will be prepared under departmental faculty supervision. Prerequisites: Admission to the Business Division.</p>		
BUS-274	Business Case Study	3	BUS-390	International Business	3
<p>An integration of business principles, concepts, and skills applied to an actual business problem case study.</p>			<p>Prepares student to cope with business decisions and business strategies needed to transact business in a foreign land. The influence of cultural, economic, political, and social differences on decision-making will be explored. In addition, complexities created by differing values and beliefs will be evaluated. How such issues impact an American business in an international setting will be carefully studied. Intercultural credit may be met by successfully completing BUS-390. Prerequisite: Admission to the Business Division.</p>		
BUS-275	Your Work Matters to God	3	BUS-399	Service Learning	3
<p>An examination of the Biblical view of work and its implications for the Christian in the workplace. Emphasis will be placed on God's calling to work, God's purpose in work, God's equipping for work, God's caring about our work, and God's use of us and our work. No prerequisite.</p>			<p>Service-Learning is an educational experience in which students participate in organized service activities that meet identified community and/or university needs. Prerequisite: Admission to the Business Division</p>		
BUS-304	Current Topics in Business	1			
<p>A seminar class with the objective of using a popular current business book or periodical as the basis of discussion of new ideas in business. In addition to raising awareness of new ideas, the course requires each student to evaluate the practical application of these ideas and their potential effectiveness. May be repeated twice. Prerequisite: Admission to the Division.</p>					
BUS-310	Business Communications	3			
<p>Develop skills in all aspects of business communications. Includes writing business letters and reports, communications about employment and meetings, oral communications, nonverbal and visual communications. Prerequisite: Admission to the Division.</p>					

BUS-399H	Honors Thesis/Project	3	CED-252	Introduction to Christian Education	3
<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>			<p>An investigation of the history, philosophy, and psychology of Christian Education and an examination of methodology, equipment, and materials needed for effective implementation in the local church (or similar setting). The course addresses the changing role of the Christian education worker in the church today, introduces the student to career options in this field, and provides a foundation for other courses in the Christian Education major.</p>		
BUS-452	Strategic Management	3	CED-255	Local Church Education	3
<p>An integration of the management, marketing, finance, economics, and accounting aspects of 1) analyzing the internal and external environment of the firm; 2) developing the mission, long-range objectives, and the strategy to achieve the objectives; and 3) evaluating the firm's performance for efficiency and effectiveness. Oral and written presentations of case analyses are used extensively. Prerequisites: Admission to the Business Division and Senior Standing.</p>			<p>An investigation of the history, philosophy, and psychology of Christian Education and an examination of the methodology, equipment, and materials needed for effective implementation in the local church. The course addresses the role of the pastor in enhancing education in the local church, administering a program of Christian Education, and recruiting and training volunteers. Various models of Christian education in the contemporary church are also considered. Co-requisite: CED-255P.</p>		
BUS-472	Independent Learning in Business Administration		CED-255P	Local Church Education Practicum	1
<p>An opportunity for advanced students to pursue further study in a business administration field of interest in which they have exhausted catalog offerings. Prerequisites: Admission to the Business Division.</p>			<p>Each student will be involved in practical experiences in a local ministry setting providing the student with a "laboratory" for the application of Christian education principles taught in the co-requisite course. Co-requisite: CED-255.</p>		
BUS-480	Business Practicum Transition	1	CED-350	Teaching Children in the Church	3
<p>This course is designed to help students transition to the world of business. The intent is two fold; prepare students so they will be successful in their practicum experience; and in similar fashion, prepare students to be successful in their first professional assignment after college. Business etiquette, business protocol, professional growth, and the "keys for success" in the first professional assignment are examples of topics that will be studied. Prerequisites: ACC-201, ACC-202, BUS-100, ECO-211, ECO-212, and the appropriate major area gateway course(s).</p>			<p>This course will provide theoretical foundations and practical strategies for teaching children in the church. Based on current research and models of effective teaching, students will design lessons and engage in practice teaching under the supervision of the professor. Critiques and suggestions for improvement will be provided by the professor and by fellow students.</p>		
BUS-499	Business Administration Seminar-Presentation	1	CED-354	Working With Children	3
<p>A seminar course intended to develop the senior business administration major's professional presentation skills as he/she prepares and delivers the results of the research in BUS-498 from the previous semester. Prerequisite: BUS-498.</p>			<p>A study of the characteristics of various age levels of children and some of the methods, materials, and programs for ministering to them through the local church. Prerequisite: Open to juniors or seniors who have been admitted to the CED major or permission of the Division.</p>		
CED-240	Teaching the Bible to Adults	3	CED-357	Christian Education Practicum	1
<p>A course exploring the methods of teaching the Bible to adults seeking life change. The course content includes adult learning theory, adult teaching methods, and small group leadership skills. As part of the course each student completes a segment of practice teaching both in and out of the classroom which is evaluated professionally with an eye toward improvement. Prerequisites BIL-101 and BIL-102.</p>			<p>The student will complete twelve weeks of Christian Education ministry in a local church (or similar setting) with mentoring by a professional Christian Education worker and supervision by a professor from the university. Prerequisite: CED-252 or permission of the Division.</p>		

<p>CED-358 Christian Education Practicum 1</p> <p>The student will complete twelve weeks of Christian Education ministry in a local church (or similar setting) with mentoring by a professional Christian Education worker and supervision by a professor from the university. The student will be expected to teach or give leadership to a significant group (or ministry) throughout the course of this practicum. Prerequisite: CED-357.</p>	<p>CED-450 Leading a Children's Ministry in A Local Church 3</p> <p>In this capstone course, the student will explore how those involved in children's ministry may effect change in the lives of children and in the parish setting as a whole. The student will learn how to plan, organize and lead an effective children's ministry. Instruction will be given regarding leadership and service on boards and committees, relationships with children, parents, peers and supervisors, and the recruiting and training of lay volunteers.</p>
<p>CED-359 Christian Education Practicum 1</p> <p>The student will complete twelve weeks of Christian Education ministry in a local church (or similar setting) with mentoring by a professional Christian Education worker and supervision by a professor from the university. The student will be expected to teach or give leadership to a significant group (or ministry) and to gain experience in additional areas of leadership which were not included in CED-357 and CED-358. Prerequisite: CED-358.</p>	<p>CED-455 Christian Education in the Family 3</p> <p>A study of the relationship of the church and the home in the joint enterprise of strengthening the family, nurturing children and bringing them to mature Christian discipleship. Attention is given to current problems facing the family and to strategies that Christian parents and Christian educators can employ in an attempt to resolve these issues. Prerequisite: CED-252 or permission of Division.</p>
<p>CED-360 Curriculum Theory and Development 3</p> <p>This course explores the curriculum design process for Christian education of children, youth, and adults. We consider methods for assessing needs, developing a scope and sequence, projecting outcomes, and objectives. Writing of actual curriculum sessions is included as well. Prerequisite: CED-252 or permission of Division.</p>	<p>CED-490 Leading Christian Education (Capstone) 3</p> <p>Leading Christian Education is the capstone course focusing on leading and managing the local church's Christian education process. The course focuses on recruiting, training and supervising volunteers, organizing and motivating volunteers, budgeting, managing finances in the local church, curriculum planning, office administration, designing and furnishing learning facilities and working with other professional staff. Open to Christian Education majors and minors. Prerequisites: CED-252.</p>
<p>CED-361 Children's Ministry Practicum 1</p> <p>The student will complete twelve weeks of children's ministry in a local church (or similar setting) with mentoring by a professional children's ministry worker and supervision by a professor from the university. Prerequisite: CED-252 or permission of the Department.</p>	<p>CHE-104 Chemistry and Artists' Colors 4</p> <p>An introduction to the principles of chemistry with specific applications to the materials and methods used by artists. Topics will include: the nature of light and its interaction with matter in producing color; a study of chemical bonding with application to light absorbing molecules found in the composition of artists' dyes, paints, and pigments; the chemistry of ceramics and glazes; and the chemistry of photography. Other topics may include the chemistry of art restoration, dating of art works, and chemical hazards in the studio. This course is primarily intended for those majoring in art or a related discipline. Co-requisite: CHE-104L. This course with its co-requisite laboratory fulfills the general education lab science requirement.</p>
<p>CED-362 Children's Ministry Practicum 1</p> <p>The student will complete twelve weeks of children's ministry in a local church (or similar setting) with mentoring by a professional children's ministry worker and supervision by a professor from the university. The student will be expected to teach or give leadership to a significant group (or ministry) throughout the course of this practicum. Prerequisite: CED-361.</p>	<p>CHE-104L Chemistry and Artists' Colors Lab 0</p> <p>Lab taken as a co-requisite to CHE-104.</p>
<p>CED-363 Children's Ministry Practicum 1</p> <p>The student will complete twelve weeks of children's ministry in a local church (or similar setting) with mentoring by a professional children's ministry worker and supervision by a professor from the university. The student will be expected to teach or give leadership to a significant group (or ministry) and to gain experience in additional areas of leadership which were not included in CED-361 and CED-362. Prerequisite: CED-362.</p>	

CHE-105	Exploring Chemistry	4	CHE-126	General Chemistry II	5
<p>A non-majors lab science course fulfilling the general education requirement; not meant for those going on to higher level chemistry courses. This course is intended for students with majors outside of the sciences who have had little science or math in high school. The concept is to weave chemistry into social, political, ecological, economic, and ethical contexts. The objectives are to consider technology-based issues to help students develop their critical thinking ability, to better understand how to assess technological risks and benefits and to explore skills that will lead to informed decisions on scientific issues throughout their lives. No prerequisites. Co-requisite: CHE-105L. This course with its co-requisite laboratory fulfills the general education lab science requirement.</p>			<p>A study of the fundamental principles and concepts of chemistry and their relations to representative elements and their compounds. The laboratory includes some inorganic qualitative analysis. Prerequisite: CHE-125. Co-requisite: CHE-126L.</p>		
CHE-105L	Exploring Chemistry Lab	0	CHE-126L	General Chemistry II Lab	0
<p>Lab taken as a co-requisite to CHE-105. Graded on a CR/NC basis.</p>			<p>Lab taken as a co-requisite to CHE-126.</p>		
CHE-110	Introduction to Chemistry	4	CHE-232	Fundamentals of Environmental Chemistry	3
<p>An introduction to the principles of chemistry including some applications in our modern society. A beginning course for students with weak or no previous chemistry who expect to take CHE-120 or CHE-125. No prerequisites. Co-requisite: CHE-110L. This course with its co-requisite laboratory fulfills the general education lab science requirement.</p>			<p>This course will focus on principles and analysis of chemical movement and distribution in natural environments. Sampling and analytical methods are included for water, soil and air. Consideration of the influence of man on the chemistry of the environment will be addressed. Prerequisite: BIO-125 and CHE-125 with "C" or better.</p>		
CHE-110L	Introduction to Chemistry Lab	0	CHE-235	Organic Chemistry I	4
<p>Relatively simple laboratory experiments are used to aid in the learning of chemical principles. Co-requisite: CHE-110.</p>			<p>A study of all the major classes of carbon compounds. First-semester emphasis is on structure and nomenclature with an introduction to elementary reactions and reaction mechanisms. Second-semester emphasis is on reactions, synthesis, and analysis. Prerequisites: CHE-125 and CHE-126. Co-requisite: CHE-235L.</p>		
CHE-120	Introduction to Organic and Biological Chemistry	4	CHE-235L	Organic Chemistry I Lab	0
<p>An introduction to the structure and reactions of organic compounds. The function and metabolism of compounds of importance to biological systems will be emphasized. Prerequisite: CHE-110 with a grade of "C" or better; Math SAT 400 or above, SAT I 440 or above, ACT 19 or above AND high school chemistry (1 year). Co-requisite: CHE-120L. This course with its co-requisite laboratory fulfills the general education lab science requirement.</p>			<p>Lab taken as a co-requisite to CHE-235.</p>		
CHE-120L	Introduction to Organic and Biological Chemistry Lab	0	CHE-236	Organic Chemistry II	4
<p>Lab taken as a co-requisite to CHE-120.</p>			<p>A study of all the major classes of carbon compounds. First-semester emphasis is on structure and nomenclature with an introduction to elementary reactions and reaction mechanisms. Second-semester emphasis is on reactions, synthesis, and analysis. Prerequisite: CHE-235. Co-requisite: CHE-236L.</p>		
CHE-125	General Chemistry I	5	CHE-236L	Organic Chemistry II Lab	0
<p>A study of the fundamental principles and concepts of chemistry and their relations to representative elements and their compounds. The laboratory includes some inorganic qualitative analysis. Prerequisites: CHE-110 with grade of "C" or better; Math SAT 440 or above, SAT I 480 or above, ACT 21 or above, AND high school chemistry (1 year). Co-requisite: CHE-125L.</p>			<p>Lab taken as a co-requisite to CHE-236.</p>		
CHE-125L	General Chemistry I Lab	0	CHE-330	Inorganic Chemistry	3
<p>Lab taken as a co-requisite to CHE-125.</p>			<p>A more advanced course which explores the properties of the transition elements. Topics will include the Schrodinger wave equation, states of atoms, crystal field/molecular orbital theory, coordination chemistry, and organometallic chemistry. Prerequisite: CHE-236.</p>		
			CHE-350	Analytical Chemistry	4
			<p>An introduction to the theory and methods of chemical separations and quantitative determinations. An emphasis is placed on understanding chemical equilibria of all forms. The laboratory includes gravimetric, volumetric, and instrumental techniques. Prerequisites: CHE-125 and CHE-126. Co-requisite: CHE-350L.</p>		

CHE-350L	Analytical Chemistry Lab	0	CHE-495	Research in Chemistry	3
Lab taken as a co-requisite to CHE-350.			Students will engage in original research under the direction of a faculty member. This course may be repeated. Prerequisite: Permission of instructor.		
CHE-399H	Honors College Thesis- Chemistry	3	CIS-110	Introduction to Computing Concepts	3
Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.			A course designed to increase the student's understanding and use of personal computers. Intended for novice users, the course provides an introduction to hardware and software with special attention to the use of productivity tools such as spreadsheets, databases, and networks. An overview of major computer components is included. This course counts toward general education science credits (as a non-lab science course). This course does not apply toward a computer major or minor. Credit is not given to any student who has previously completed six credits in CIS courses.		
CHE-430	Biological Chemistry I	3	CIS-117	Essential Foundations for Computing	3
A study of the chemistry of life processes. Topics will include proteins, enzymes, and major metabolic pathways. Designed for chemistry and biology majors who intend to do graduate work related to this area. Prerequisite: CHE-236 or permission of instructor.			This course provides a backdrop of essential topics for computer major students. Classroom lecture format is used to provide an overview of selected topics from discrete mathematics, fundamentals of desktop computer operating systems and standard office applications, and an introductory experience in writing technical papers at the college level. The new computing major student will begin to be acclimated to the social fabric of the Department, and intentional introduction made to upper division students in the majors. Finally, an overview of the computing curricula available will be given. Prerequisite: a declared computing major or minor.		
CHE-432	Biological Chemistry II	4	CIS-121	Introduction to Programming	3
A continuation course which builds on the fundamental concepts from Biological Chemistry I. Topics will include biosynthesis of nucleotides and DNA with emphasis on protein synthesis and gene regulation. Prerequisite: CHE-430. Co-requisite CHE-432L.			The study of computing can be viewed as the science of knowing how to solve problems. This first course in writing computer programs provides a useful approach to problem solving which is applicable in many areas of life. An introductory programming language will be used to teach skills in algorithmic design of solutions to problems. No prior experience in programming is necessary, but the student should be familiar with basic computer terminology and use of applications such as word processors and electronic spreadsheets. Pre-or co-requisite: Satisfactory completion of Mathematics Competency requirement or concurrent enrollment in math competency course. This course counts toward general education science credits (as a non-lab science course). This course does not apply toward a computer major or minor. Credit is not given to any student who has previously completed six credits in CIS courses.		
CHE-432L	Biological Chemistry II Lab	0			
Lab taken as co-requisite to CHE-432.					
CHE-440	Physical Chemistry I	3			
An introduction to thermodynamics, kinetics, electrochemistry, and the properties of gases and solutions. Prerequisites: PHY-222, MAT-254, and CHE-126.					
CHE-450	Physical Chemistry II	3			
An introduction to quantum mechanics, atomic and molecular structure, and the properties of liquids and solids. Prerequisite: CHE-440.					
CHE-461	Physical Chemistry Lab	1			
Laboratory experience in methods of instrumental chemical analysis and the techniques used in thermo chemistry, electrochemistry, chemical kinetics, and the determination of physical properties. Prerequisite: CHE-440 or concurrent enrollment.					
CHE-490	Chemistry Senior Seminar	1			
This course is intended to help science majors to synthesize, integrate, and apply their scientific understanding. The course will focus on advanced topics and on the ethical and social implications of science. Some emphasis will be given to research and to written and oral communication skills as used in the sciences. The Major Field Achievement Test in chemistry may be administered as a part of this course. The course is required of all majors. Prerequisite: Senior standing, science major, and completion of at least one course in the major at or above the 300 level.					

CIS-122 Introduction to Web Programming 3

A course designed to increase the student's understanding of computers and insure a hands-on lab environment for web page programming. This course is intended for the student who knows how to use software such as word processing and electronic spread sheets, but is interested in learning the web page creation process including contemporary web development tools such as HTML and JavaScript. The use of automated support tools will be minimized. The course also supplies an introduction to hardware, software and other major computer components. Prerequisite or co-requisite: Satisfactory completion of mathematics competency requirement or concurrent enrollment in a math competency course. This course counts toward general education science credits (as a non-lab science course). This course does not apply toward a computer major or minor. Credit is not given to any student who has previously completed six credits in CIS courses.

CIS-125 Introduction to Computer Sciences I 3

This course combines in class lectures with a supervised laboratory work weekly to teach an introduction to computer science including programming in a structured programming language. Special attention is given to the study of problem-solving processes in the context of algorithmic development. Programming topics include text processing, mathematical manipulation, array processing and code reading. Overview treatment of the history of computing and other general computer science topics like the binary numbering system, data storage, and operating systems will be covered. Prerequisite: Completion of the Math Competency requirement or permission of department.

CIS-126 Introduction to Computer Sciences II 3

This course continues the development of programming skill using a combination of in class lectures together with supervised laboratory work each week to stress problem solving through computer programming. Algorithms for information retrieval, file handling, sorting, searching, dynamic storage, allocation and introductory data structures are presented. Good algorithm design, style, program structure, documentation code reading, and introductory software engineering techniques are emphasized. Additional topics include the branches of study in the discipline of computer science, as well as coverage of social and ethical implications of current and future development in computer usage. Prerequisite: CIS-125.

CIS-175 Independent Learning in Computer Languages

A course designed to allow individualized study of a specific programming language. An application project is required that demonstrates proficiency in the major features of the selected language. Prerequisite: Permission of instructor.

CIS-221 Data Structures 3

A study of data organization and processing in the context of abstract data types. This course combines classroom lecture format with hands on supervised laboratory programming exercises each week to cover topics including pointers, lists, strings, stacks, queues, trees, searching, and sorting. It is taught against the backdrop of a modern programming language. Prerequisite: CIS-126.

CIS-222 Object Oriented Programming 3

An introduction to object-oriented programming techniques, using a contemporary programming language. This course combines classroom lecture format with hands on supervised laboratory programming exercises each week to cover topics such as object-oriented design, classes and methods, inheritance, polymorphism, templates, software reuse, and the event-driven programming. Prerequisite: CIS-126.

CIS-225 Systems Analysis 3

An examination of systems theory and various models of analysis and design. Topics include planning and scheduling techniques, charting, interviewing, and report-writing. Projects provide opportunity for practical application of systems concepts. Prerequisite for CAS students: sophomore standing.

CIS-236 Machine Structures and Programming 3

An introduction to assembly language programming along with associated concepts of machine architecture and design. Topics include the organization of the CPU and peripheral equipment, addressing techniques, segmentation and linkage, macro assembly, assembler construction, interrupts, and timing. Prerequisite: CIS-125.

CIS-241 Topics in Scientific Programming

A course in techniques and concepts used in scientific applications of computers. Topics may include computer hardware, machine language, numerical and statistical techniques, computer simulation, and graphics. Prerequisites: CIS-221, CIS-236, and MAT-253.

CIS-250 Internet Programming 3

A beginning course in Internet Programming. Special emphasis will be given to learning current and emerging languages and how they are utilized with other web conventions. Other topics to be covered are brief introductions to e-commerce, and other topics as they develop. Co-requisite: CIS-221.

CIS-290	Local Area Networks	3	CIS-340	Internet Database Programming	3
<p>This course studies computer networks from the point of view of the Local Area Network and network interconnection. An overview of the OSI and TCP/IP layer models is presented with emphasis on packet transfer across networks. Common applications such as electronic mail, file sharing, web servers, Instant messaging and VIOP are considered. Real world protocols are covered and contemporary network operation systems are reviewed. The role of the network administrator is covered regarding network security, disaster prevention and recovery. Prerequisite: CIS-125.</p>			<p>Introduces the concepts and techniques necessary to incorporate database applications and content into web pages. The world wide web is rapidly becoming an important vehicle for networked database applications. Topics to be covered include an overview of DBMS technologies, using HTML forms to access server-side databases, and "front-end" database development tools for the web. Emerging tools, including object-oriented databases will be discussed. Prerequisites: CIS-252 and CIS-382.</p>		
CIS-296	Studies in Computer Information Systems		CIS-350	Computer Applications-Business	3
<p>A course in topics of current interest in Computer Information Systems. Specific content varies term by term. Prerequisite: Permission of instructor.</p>			<p>A course emphasizing computer applications in a business environment. Includes case studies, field trips, and programming projects. Prerequisites: CIS-116 and CIS-225. Prerequisite or concurrent enrollment: ACC-202.</p>		
CIS-320	Introduction to Software Engineering	3	CIS-373	Numerical Analysis	3
<p>This course provides an introduction to the process of developing software systems, including study of the procedures and tools of large system software engineering are introduced: software life-cycle models, quality factors, requirements analysis and specification, software design (functional design and object-oriented design), implementation and testing. Prerequisites: CIS-221 and CIS-225.</p>			<p>Iterative and other algorithmic processes, propagation of error, solution of transcendental and polynomial equations, numerical integration, numerical differentiation, linear algebra, curve-fitting, and numerical solutions of differential equations. Prerequisites: MAT-254 and MAT-343.</p>		
CIS-325	Analysis of Algorithms	3	CIS-382	Database Programming Development	3
<p>Topics include analyzing the time and space requirements of algorithms; the design techniques for efficient algorithms; induction, recursion, and divide-and-conquer; greedy algorithms; graph algorithms; network problems; and an introduction to intractable (NP-hard) problems. Prerequisite: CIS-221 or CIS-222.</p>			<p>An advanced course in software design and the development of programs for use in a database environment. Prerequisites: CIS-221 or CIS-222 and CIS-225 or permission of the Division.</p>		
CIS-330	Software Testing: Verification And Validation	3	CIS-385	Theory of Computation	3
<p>A study of the process of testing software systems, including the tools, methods, and current practices used in assessing the quality and correctness of software. Topics and issues covered include the roles of testing and formal verification, planning and documentation for quality assurance, methods of performing technical reviews, strategies of system testing and integration planning, and principles and practices used in conducting tests. Pre- or co-requisite: CIS-320.</p>			<p>An introduction to the classical and contemporary theory of computation. Topics include theory of automata and formal language, computing by Turing machines, Church's thesis, and decision problems. Prerequisites: CIS-336 and MAT-254.</p>		
CIS-336	Programming Languages	3	CIS-390	Distributed Systems	3
<p>A course designed to analyze and evaluate the important concepts in current programming languages. Emphasis is placed on the functional constructs which define all languages. Topics include syntax, semantics, denotation techniques, correctness proving. Students are expected to learn several languages and write programs which illustrate their distinguishing features. Prerequisites: CIS-126, CIS-220, and CIS-221.</p>			<p>This course examines how distributed computing systems operate over computer networks. It introduces fundamentals of data communication, including an overview of the use of physical media to transfer bits, time division and frequency division multiplexing, encoding, modulation, bandwidth, throughput, and noise. It focuses on packet switched networks and virtual circuit networks, including a layered approach to network design and coverage of both OSI and TCP/IP models, and internetworking with router-based architecture, IP addressing, datagram encapsulation and fragmentation, transmission via UDP and TCP, and application level protocols such as Telnet, FTP, SMTP and others. Also, provides coverage of general topics and such as routing error handling, security and encryption. Prerequisites: CIS-221 or CIS-222 and CIS-236.</p>		

CIS-396	Advanced Studies in Computer Information Systems		CIS-440	Advanced Internet Concepts	3
<p>A course in advanced topics of current interest in Computer Information Systems. Specific content varies term by term. Prerequisite: Permission of instructor.</p>			<p>A capstone course for those in the Computer Internet Development major. Topics explored will depend on current development and research interests of the students. The students will deeply explore one or two major trends on the Internet and share that information with the rest of the class. Cutting edge developments will be studied. Ethics, Internet security and strategies for staying current will also be studied. Prerequisite: CIS-340.</p>		
CIS-399H	Honors Thesis/Project	3	CIS-450	Ethics in the Computer Society	3
<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>			<p>An independent writing course in which the student will explore various topics in business and personal ethics. Special emphasis will be placed on how certain facets of ethical practices are impacted by the use of computers in society. This course provides upper-level students an opportunity to hone writing skills as well as reflect on their personal integration of faith and learning. This course is not applicable as general education science credits. Prerequisite: Permission of department.</p>		
CIS-421	Advanced Software Engineering	3	CIS-452	Programming for E-Commerce	3
<p>A continuation of the study introduced by CIS-320. The student will consider why application of engineering principles to the development of large software systems effects higher quality software development. Current practices regarding software requirements methodologies and system design, documentation standards, software project management, verification and validation techniques will form the basis of the course, to be demonstrated by a class team project in designing a system. Possible additional coverage of software security considerations, software quality assurance documentation and computer human interfaces may be included. Possible additional coverage of software security considerations, software quality assurance documentation and computer human interfaces may be included. Prerequisite: CIS-320.</p>			<p>Examines the issues involved in bringing the full range of business transactions to the Internet and World Wide Web. Provides an in depth introduction to storefront design for electronic commerce applications. Topics include storefront user interface, shopping carts, catalogs, certificate authority, order management (order form, order status and order initialization), payment methods and authorization, secure transactions, database storage objects, electronic data interchange. Explores the advantages and implications of on-line commerce, such as transacting business directly between customer and supplier with no intermediaries and no national borders, universal mediums of exchange, public transfer of private information, and electronic payment methods. Additional topics will include new and emerging technology as it applies to e-commerce. Prerequisite: CIS-340.</p>		
CIS-425	Operating Systems	3	CIS-480	Applied Software Development Project	3
<p>An introduction to computer operating systems and analysis of operating system architectures. Included are consideration of the topics of processes, inter-process communication and synchronization; CPU job scheduling, memory and input/output device management; file system management; virtual memory; and mutual exclusion and deadlocks. Prerequisites: CIS-221 and CIS-236; prerequisite or co-requisite: CIS-336.</p>			<p>A capstone course in which the student will design, program, verify, and document a special project assignment selected in consultation with the instructor. The student will work independently under the guidance of a supervisor familiar with the needs of the project. Prerequisite: Senior academic standing and completion of all earlier computer major core course and cognate track requirements. This capstone course is intended to be taken within the last two semesters.</p>		
CIS-430	Requirements Engineering and Specifications	3	CIS-490	Senior Seminar	1
<p>A study of the requirements phase within the development of large scale software systems. Topics covered include: requirements elicitation, Joint Application Design, prototyping, and requirements inspections. Specifying software behavior for state-oriented, function-oriented, and object-oriented models, as well as non-behavioral requirements; and refinement of requirements into preliminary design. Prerequisite: CIS-320.</p>			<p>A course to foster independent study and research skills and pursue topics of current interest in the field of Computer Science. Each student will be required to make at least one oral presentation. Prerequisites: Senior academic standing and completion of all earlier computer major core course and cognate track requirements. This capstone course is intended to be taken within the last two semesters.</p>		
CIS-435	Software Process and Quality Assurance	3			
<p>A course which focuses on the process of software development. Coverage includes software metrics, predicting reliability, version control and configuration management. Software design concepts such as reusable components, change during development in response to new requirements, software maintenance and reverse engineering will also be addressed. Prerequisite: CIS-320.</p>					

CIS-497	Practicum in Computer Information Systems				
	Individually arranged work assignments designed to give practical work experience in the use of computer systems. Prerequisite: Permission of instructor.				
CIT-112	Computer Information Technology	3			
	This course provides students with an overview of Computer Information Systems, its history, current computer technology, and future trends. There will be a lot of discussion on a variety of interesting topics. It also concentrates on the basic structure of microcomputer, its hardware, and software.				
CIT-120	Introduction to Programming Concepts	3			
	This course teaches basic concepts of computer programming languages, including both structured and object oriented programming languages. Several typical programming languages will be introduced. Examples will be used to show students how to apply the computer programming techniques to solve typical business application problems.				
CIT-140	Operating Systems Concepts	3			
	This course introduces the history of operating systems and several typical operating systems. It teaches basic concepts and important components of microcomputer operating systems. Specific attention will be given to the usage of the Microsoft Windows operating systems.				
CIT-220	Desktop Applications	4			
	This course is designed to give students a firm foundation in current desktop application software. Specific attention will be directed at software utilizing word processing, spreadsheet, presentation, and database functionality. This course will give students a firm underpinning with which to pursue applicable certifications.				
CIT-260	Database Concepts	3			
	This course introduces the basic terminology and concepts of databases, including data modeling, database models, and database design principles. Attention will also be given to the most popular relational database management systems (RDBMS) and the Structured Query Language (SQL). A popular desktop database application will be used as a tool in database design, use, maintenance, and management.				
CIT-262	Network Communications	3			
	This course will provide a basic understanding of data communication and network technologies. It will also help students to further gain practical experience on network problem identification, troubleshooting, and general support of networks.				
CIT-270	Basic Web Design and Development	3			
	This course provides a foundational understanding of web design and development. Topics include planning a website, tools available, typography, images, multimedia and maintenance. Emphasis will be placed on understanding current and future trends of web design and development through meaningful discussion and research.				
CIT-272	Hardware and Software Troubleshooting	3			
	This course covers hardware and software installation, configuration, and trouble shooting. Hardware repair and diagnosis will be addressed, and software patch/fix will also be discussed.				
CIT-280	Project Management and Integration - Capstone	3			
	This course introduces the basic concept of project management and integration. By using typical business examples students will study the principles of service calls and customer relations skills. It will also introduce the software development life cycle and its related phases. Project management and planning software will be addressed and project documentation will be introduced. A summary project will allow students the opportunity to demonstrate design, implementation, and project management skills.				
CNS-310	Counseling Theories for the Faith Community	3			
	This course will investigate a range of counseling theories and techniques to prepare parish nurses/caregivers to assist individuals and families to deal with the complexities of life. Skills for assessing and helping different age groups will be included. Experiential or virtual learning will be part of this class. Prerequisite: PSY-150				
CNS-312	Counseling Interventions for the Faith Community	3			
	This course will provide the parish nurse/caregiver with the necessary skills to collaborate with community and professional agencies. Helping with specific family problems will be explored. Self-care for parish nurses/caregivers will also be included. Experiential or virtual learning will be part of this course. Prerequisite: PSY-150				
COM-110	Speech Communication	3			
	Develops world changing communicators who are effective and ethical creators and consumers of public address both theoretically and practically.				

COM-115 Introduction to Human Communication 3

Provides students with an understanding of communication encountered in various social settings, with an emphasis on both theoretical and practical aspects. Students will gain an understanding of communication as it affects the individual in message construction, interpersonal interaction, group and organizational settings, public settings, cultural settings, and mass communication settings. Also examines the ethics of communication, and participate in group projects, leading to presentations.

COM-116C Communication Lab-Communication Studies

Practical experience working in varied environments on projects that involve improving communication. Labs may be taken for 0 or 1 credit. Graded on a CR/NC basis.

COM-116J Communication Lab-Journalism

Provides practical experience working in for The Sojourn, in print and/or online. Requires attendance at weekly story assignment meetings. Labs may be taken for 0 or 1 credit. Graded on a CR/NC basis.

COM-116P Communication Lab-Public Relations

Provides practical experience working with on- or off-campus organizations in public relations capacity (e.g., event planning, fundraising, sports information, promotion). Labs may be taken for 0 or 1 credit. Graded on a CR/NC basis.

COM-116R Communication Lab-Radio

Provides practical experience working for the university radio station, WIWU-FM, completing technical training, on-air broadcasts, and off-air meetings and activities. Required of all students in their first semester on the radio staff. Labs may be taken for 0 or 1 credit. Graded on a CR/NC basis.

COM-116T Communication Lab-Theatre

Provides practical experience working in theatre program productions. Labs may be taken for 0 or 1 credit. Graded on a CR/NC basis.

COM-116V Communication Lab-Television

Provides practical experience working for the university television station, WIUW-TV, completing technical training and serving as production crew for the studio and field broadcasts. Labs may be taken for 0 or 1 credit. Graded on a CR/NC basis.

COM-120 Introduction to Theatre 3

This course offers an overview and introduction to the understanding and appreciation of dramatic arts by examining foundations of drama, dramatic terminology, and dramatic works, as well as basic techniques of the theatre. Students will gain insight into the imaginative and creative process that makes up the art of theatre. Laboratory hours required.

COM-140 Communication in Action Practicum

Work in varied environments on projects aimed at communication activism, with individuals or groups to improve communication. Learn firsthand about responsibilities that accompany the gift of communication. May be taken up to three times as long as the work is with different aspects of communication. Prerequisite: COM-115.

COM-200 Journalism Practicum

Classroom discussion and laboratory work for the university newspaper (print and online), university magazine, and yearbook. Graded on a CR/NC basis. May be taken for 0 or 1 credit. Prerequisite: Permission of Division.

COM-201 Public Relations Practicum

Students gain practical experience in public relations through working with officially sanctioned groups on campus and with organizations off-campus. Graded on a CR/NC basis. Prerequisite: COM-233 and Permission of division. May be repeated, but credit will be assigned for no more than two hours.

COM-209 Small Group Communication 3

Provides background and skills related to small group communication theory and practice. Students participate in group projects leading to class presentations. Topics include leadership, discussion, roles, consensus, organization, decision-making, and persuasion. Standards for ethical conduct are considered. Prerequisite: COM-115 or permission of Division.

COM-210 Advanced Public Speaking 3

Advanced speech writing: theories of style, written and spoken; study of principles of effective public speaking. Practice in composition and delivery of longer speeches; also, analysis of significant speeches. Prerequisite: COM-110 or permission of Division.

COM-211 Introduction to Mass Communication 3

A survey of the media communication industries, focusing on their historical development in the United States and professional and ethical standards required in media professions.

COM-214	Radio Production	3	COM-229	Media and Society	3
<p>Principles of audio production are applied to radio station operations. Learn fundamentals of microphone technique and multi-channel digital recording in common radio projects such as commercials and public service announcements. Laboratory work on college radio operation required.</p>			<p>A critical approach to interpreting media messages is grounded in the study of how messages are constructed, how media industries function, and how communication theory and research explain media impact on society. Emphasis on making informed choices as a media consumer, and considering the impact of media from a Christian perspective.</p>		
COM-215	Television Production	3	COM-233	Principles of Public Relations	3
<p>Introduction to multi-camera and single camera television production. Studio equipment, operations, set, lighting and editing are covered with an emphasis on the creative process from scripting to finished product. Class includes field experience with WIWU-TV51.</p>			<p>Examines the history, roles, functions, purposes, methods, responsibilities, and ethical issues of public relations in various contexts, including corporate, nonprofit, and agency environments. Focuses on how organizations effectively communicate with various publics to achieve specific public relations objectives.</p>		
COM-220	Radio Practicum	1	COM-235	Communication Career Seminar	1
<p>Laboratory work for the staff of the university radio station. May be repeated up to a total of three semester hours. Graded on a CR/NC basis.</p>			<p>Introduces students to various careers available in communication. Examines the meaning of vocation, and the role it can play in our calling to be "world changers." Also introduces students to professional tools that will later assist them in their pursuit of a meaningful communications career. Graded on a CR/NC basis.</p>		
COM-223	Desktop Publishing	3	COM-240	Television Practicum	1
<p>Allows students to develop skills in using the computer to produce printed materials. Learn both the theory and mechanics of computer-aided print production and the software necessary to produce the different types of print pieces commonly used for communication campaigns. Prerequisite: Successful completion of ENG-120 or Advanced Standing in English.</p>			<p>Provides ongoing, advanced, practical television experience on university television station WIWU-TV. Requires attending staff meetings and participate in production activities as assigned. May be repeated up to a total of three semester hours. Graded on a CR/NC basis.</p>		
COM-224	Introduction to Newswriting	3	COM-250	Media Scriptwriting	3
<p>A survey of the field of journalism, including the news media, the role of reporters, ethics, methods, and operations. Practical application in gathering information and writing news stories through covering campus and University-related activities. Requires field assignments and attendance at newspaper meetings. Prerequisite: ENG-120 or Advanced Standing in English.</p>			<p>Principles of developing and writing scripts for multiple electronic media including radio, television, and online forms. Emphasis on the common principles applied across media, and developing scripts in coordination with available production techniques. Applications could include commercials, promotions, educational, public service, news and short-form narratives.</p>		
COM-226	Voice and Interpretation	3	COM-251	Principles of Script Analysis	3
<p>Addresses techniques for improving the student's speaking voice as well as underlying techniques and theories, articulation, pronunciation, voice including quality, and general expressiveness. Students will strengthen their vocal techniques as well as learn how to dramatically interpret literature and other appropriate forms for church and performance venues. Prerequisite: COM-110 or permission of Division.</p>			<p>Explores methods of reading, studying, and analyzing theatrical scripts for production on stage and screen. By concentrating on the script as a vehicle for performance, students understand the script from the perspective of the actor, director, and designer. Extensive writing required.</p>		
COM-227	Research Methods in Communication	3	COM-252	Beginning Acting	3
<p>Introduces students to the research process. Examines how research is planned and designed, explores both quantitative and qualitative methods, introduces the techniques of these methods, and provides experience in conducting original research. Prerequisite: COM-115 or permission of Division.</p>			<p>Addresses basic techniques of acting applied to creating contemporary characters, including imaginative, emotional, and sensory responsiveness to realistic dramatic situations. Develops appreciation for the craft of acting, and clear and motivated characters for stage and church worship.</p>		

COM-270	Stage Management	3	COM-322	Broadcast Journalism	3
<p>A study of the theory and practice of stage management related to resident and touring theatre companies. Involves the study and practice of all aspects of stage management from preproduction responsibilities through rehearsal responsibilities, performances responsibilities, and ultimately the responsibility for closing the show.</p>			<p>The process and production of news reporting for radio and television with focus on broadcast writing style. Complete on-air assignments for the university radio station which includes gathering, writing, technical production, and on-air presentation. Prerequisite: COM-215 or permission of Division.</p>		
COM-272	Stagecraft	3	COM-331	Public Relations Writing and Publicity	3
<p>Introduction to scenery, lighting, costume design, technical theater practices, and production management, stressing practical production experience and terminology. Learn to use stools, equipment, and techniques necessary for basic scenery construction, including stock 2-D and 3-D units, weight bearing scenery, properties and basic scene painting techniques. Requires practical production involvement and laboratory hours.</p>			<p>Partnerships with public agencies allow the acquisition of professional-level experience and skills in publicity, promotion, and fund-raising in various settings. Examines how organizations interact with print, broadcast, and online media to gain publicity. Explores general principles of media relations and develops the writing, presentation, and production skills used in media relations work. Prerequisite: COM-233 or permission of Division.</p>		
COM-310	Stage Design for Theatre I	3	COM-332	Photojournalism	3
<p>Concentrates on stage design, including set design, set painting, props design, and lighting design. Examines evolution of theatrical design and the development of dramatic forms, various design problems, and research possibilities. Basic work at script analysis from the perspective of a designer expected. Learn basic techniques for drafting, rendering, and model-making, skills that are used to create the stage design for a musical.</p>			<p>Examines the applications of functions performed by pictures, how photography developed, the essential techniques used by professional photographers and editors. Use photography to tell a story, set a mood, and capture the high point of an event.</p>		
COM-314	Studio Production	3	COM-336	Special Topics in Communication Arts	3
<p>Develops production and leadership skills in studio-based, long-form production. Work as a team to develop and produce an original television program for WIWU-TV. Format may vary among studio forms and could include talk, game show, situation comedy or drama. Prerequisite: COM-215 or permission of Division.</p>			<p>Provides more intensive and advanced study of specific areas of communication (i.e., Communication Studies, Journalism, Media Communication, Public Relations, Theatre). May be repeated to earn up to 6 credit hours. Prerequisite: COM -115 or permission of Division.</p>		
COM-315	Principles of Stage Directing	3	COM-340	Communication Theory	3
<p>Explores basic theories and techniques of stage directing for school and professional productions. Through play readings and script analyses, attendance of local performances, and discussion, students develop a basic understanding of the directing process. Direct short scenes to gain an appreciation for the art of directing. Prerequisite: COM-120 or permission of Division.</p>			<p>Examines definitions and models of communication. Exploration of specific theories will be emphasized through individual research. Prerequisite: COM-115 or permission of the Division.</p>		
COM-317	Theatre History and Dramatic Literature I	3	COM-352	Interpersonal Communication	3
<p>A historical and analytical study of theater and drama from its origins to the present. Representative plays from each period of theater history will be studied, noting the interrelationship between scenic and production techniques and dramatic form. Examines cultural and historical elements which have influenced the rise and fall of new dramatic forms and practices. Prerequisite: COM-120 or permission of Division.</p>			<p>Practical study through examination of theory, actual practice, and criticism of the speech communication process in relatively unstructured face-to-face settings.</p>		
			COM-353	Magazine Writing	3
			<p>Involves study of theory, practice, and marketing of magazine articles. Study of magazine markets and planning, gathering, organizing, writing, and marketing nonfiction articles for print and online magazine publication. Prerequisite: COM-224 or WRI-224 and permission of Division.</p>		
			COM-355	Advanced Acting	3
			<p>Focuses on period acting styles, including interpretation, rehearsal, and the creation of roles. Lectures and studios examining a specific topic, style, or range of acting styles will be the primary mode of learning. Create characters in the various historical acting styles. Prerequisite: COM-252 or permission of Division.</p>		

COM-362	Scriptwriting	3	COM-370	Symbols and Imaging	3
<p>Introduces students to the various forms of scriptwriting by exploring the art of storytelling as expressed in stage and film and by studying the accepted principles that shape this art form. Develops skills in scriptwriting, particularly in the areas of adaptation, one-acts, sketch comedy, and group writing, concentrating on writing for the theatre and church. Prerequisite: ENG-120 (or writing competency requirement met) and COM-251 or permission of Division.</p>			<p>Explores the nature and use of symbols and imaging in social communication, the media, and advertising. Examines how to select symbols that capture the nature, message, service, or product of an institution or corporation for public awareness and service. Prerequisites: COM-233 and COM-340.</p>		
COM-363	Media Law and Ethics	3	COM-399H	Honors Thesis/Project	3
<p>Detailed survey of U.S. media law including First Amendment principles, libel/slander, prior restraint and broadcast regulation. Ethical frameworks for decision making in journalism and other media production work will be considered in a case study approach.</p>			<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>		
COM-364	Field Production	3	COM-431	Public Relations Campaigns and Cases	3
<p>Advanced television production and operations associated with field production including concepts and practices in scripting, producing, editing, and on-location directing with a single-camera format. Prerequisite: COM-215.</p>			<p>Focuses on public relations as a management function in organizations. Students analyze case studies that exemplify how real organizations successfully apply communication principles to solve public relations problem and maximize opportunities. Prepare and implement a public relations campaign for a client. Prerequisites: COM-233 and COM-331.</p>		
COM-365	Broadcast Performance	3	COM-445	Communication Internship	3
<p>Vocal and visual performance techniques for radio and television are developed with a focus on repetition and in-studio application on university broadcast outlets. Principal areas of study include vocal dynamics, interviewing, ad-lib and on-camera presentation.</p>			<p>A supervised and intensified hands-on work experience in a professional work environment. Student's interests and competencies must coordinate with the professional activities of the cooperating organization, and the student must have successfully completed work related to the internship. May be repeated up to a total of 6 credit hours. Graded on a CR/NC basis. Prerequisites: COM-235, the gateway course for the appropriate major, and permission of the instructor.</p>		
COM-366	Organizational Communication	3	COM-464	Media Management	3
<p>Examines the role of communication in organizations and the effect organizational structures have on communication from both theoretical and practical perspectives. Prerequisite: COM-115 or permission of Division.</p>			<p>Focuses on leadership principles and issues for students pursuing management careers in media organizations. Leadership styles are addressed through case studies and key issues in economics, and regulatory law and new technologies are applied to decision making strategies. Prerequisite: COM-211.</p>		
COM-367	Stage Design for Theatre II	3	COM-480	Senior Project - Communication	3
<p>Study and development of technical theatre design and application skills related to stage costuming and makeup and property design. Work with conceptions and practical applications of design, creation, and application techniques. Specific topics include Fundamentals of Stage Costuming and Makeup, Hair & Wigs, Facial Hair, Age Makeup, Animal Makeup, Three-dimensional Make-up, Special Effects, and Character Makeup. Prerequisite: COM-272.</p>			<p>Division majors in the seventh or eighth semester are required to produce a major work of communication: produce and write a series of brochures, produce a video promotion, write a play or television script, produce and edit the university Journal or newspaper, conduct an extended advertising project, produce a radio broadcast series, or other approved project. Prerequisites: A minimum of three courses in the chosen major, COM-340 and permission of the instructor and advisor.</p>		
COM-368	Theatre Management	3			
<p>A study of the theory and practice of theatre management in areas of commercial, non-profit, college, and community theatre. Theory and practice of administration for non-profit and commercial theatres. Involves the study of theatre unions, financial considerations, promotions, grantsmanship, audience development, and career opportunities in the field of theatre management.</p>					

COM-483	Advanced Newswriting and Reporting	3	CRJ-270	Homeland Security	3
<p>A continuation of Introduction to Newswriting, with greater emphasis on practical experience and in-depth development of stories, interviewing, research methods, Internet resources, and other investigative tools for professional journalists. Gain professional experience and published clips through reporting and writing stories for a local news outlet. Prerequisite: COM-224 or WRI-224, or permission of Division.</p>			<p>An overview of U.S. domestic defense and disaster strategies and theories, the history of modern terrorism, and key national policies.</p>		
COM-485	Editorial Operation	3	CRJ-275	Police Administration	3
<p>Examines various aspects of writing and editing newspapers and magazines. Involves practical experience. Prerequisite: ENG-120 or Advanced Standing in English.</p>			<p>A study of various organizational structures and issues affecting the operation of police agencies. Practical problems and issues including police deviance, administration, patrol operations, and others are discussed.</p>		
CON-253	Contemporary Economic Problems: Free to Choose		CRJ-281	Principles of Criminal Justice	3
<p>A penetrating interdisciplinary analysis of critical current economic issues including government and the economy, money and inflation, worker and consumer protection, tax reform, the welfare system, medical care, education in America, and America's future. Features a sequential viewing of the award-winning Milton Friedman film series "Free to Choose," with informative and stimulating discussion following the viewing of each film. Gives elective credit or credit toward a major in Business Administration, Economics, History, Political Science, or Social Work. May be taken for two or three credits.</p>			<p>This course will provide both an overview of criminal justice and a focus on group interaction skills and the management of individual and professional priorities. Some of the areas covered will include behavioral style analysis, communication processes within groups, goal setting, prioritizing, and time-management. The overview of criminal justice will include a focus on Corrections, Criminology, Policing, Crisis Intervention, and Criminal Procedures.</p>		
CRJ-181	Introduction to Criminal Justice	3	CRJ-290	Colloquium in Criminal Justice	4
<p>The course presents an overview of the major components of the criminal justice system: law enforcement, prosecution, the courts, and corrections. A discussion of each from a historical perspective, as well as current trends and events, is also considered.</p>			<p>An associate-level capstone readings course for majors in criminal justice that explores the most significant works, theories, and trends in the fields of criminal justice and homeland security.</p>		
CRJ-202	Introduction to Corrections	3	CRJ-309	Youth and Crime	3
<p>An introduction and analysis of American correctional systems with emphasis on the community-based agencies, including an examination of the correctional officer's behavior and correctional legislation.</p>			<p>The development of delinquent and criminal behavior, initial handling and proper referrals, presenting police technique and special problems with juveniles. Also covers laws and agencies concerned with juveniles.</p>		
CRJ-242	Modern Police Problems	3	CRJ-318	Criminal Procedures	3
<p>Problems and issues in the relationship between police agencies and the total community, including a study of internal police problems such as attitude, deadly force, morale, and the media.</p>			<p>A comprehensive study of the legal procedures affecting criminal investigations. Beginning with an introduction to individual rights under the United States Constitution and the Bill of Rights, the course will thoroughly cover the law of arrest, search and seizure, interrogation, and identification. Basic concepts relating to procedure such as probable cause, the warrant requirement, and exclusion of evidence will be studied. Criminal procedure laws will be examined from the perspective of the investigator, courts, and the accused.</p>		
CRJ-246	Criminology	3	CRJ-320	Diversity in Criminal Justice	2
<p>A study of crime and delinquency. Theories of causation, methods of correction, and prevention of crime are discussed. Different categories of crimes and their elements are also included.</p>			<p>Examination of racial, ethnic, gender and religious issues regarding criminal offenders, victims of crime and employees of the criminal justice system.</p>		
CRJ-268	Crisis Intervention	3	CRJ-322	Terrorism and Counter-Terrorism	3
<p>A study of the dynamics of crisis events including rape, child molestation, suicide, death, hostage situations, stress, and specific intervention strategies with an emphasis on practical application.</p>			<p>Participants will receive an in-depth overview of terrorism and counter-terrorism, both domestic and international. The course will touch on the causes and motives that drive terrorists, their methods of operation, and the impact of terrorism on the United States and abroad.</p>		

CRJ-324	Risk Analysis and Security	3	CRJ-463	Forensics	3
<p>This course provides an in-depth examination of risk analysis and security threats. The Risk Analysis and Security course will identify and assess critical vulnerabilities, compare quantitative and qualitative risk analysis, and utilize risk assessment tools in the decision-making process.</p>			<p>This course introduces students to the collection of forensic evidence, the analysis of forensic evidence, and the use of forensic evidence in criminal trials.</p>		
CRJ-352	Criminal Investigation and Evidence	3	CRJ-465	Constitutional Law/Civil Liberties	3
<p>Fundamentals of criminal investigation, crime scene search and recording, collection and preservation of physical evidence. Investigation techniques of specific criminal acts such as homicide, rape, child molestation, burglary, and sexual crimes are presented.</p>			<p>Relations between the individual and the government as revealed through cases in constitutional law with an emphasis on United States Supreme Court cases involving the Fourth, Fifth, Sixth, Eighth, and Fourteenth Amendments to the United States Constitution.</p>		
CRJ-355	Political Influence and the American Judiciary	3	CRJ-467	Research Methods and Analysis in Criminal Justice	3
<p>The goal of this course is to explore ways to protect judicial independence in a politicized environment by gaining an understanding of the impact societal trends have on the American Judiciary.</p>			<p>This course is an introduction to research methods and data analysis pertinent to the study of crime, criminality, and the criminal justice system.</p>		
CRJ-358	Criminal Law	3	CRJ-472	Court Procedures	3
<p>Study of elements of criminal law, including its purposes and functions. Covers laws of arrests, search and seizure, rights and duties of officers and citizens, and elements necessary to establish crime and criminal intent.</p>			<p>This course examines the laws, procedures, and traditions of the criminal courtroom. After an overview of the philosophical and historical foundation of our modern-day criminal court, the course will study the process through the court system from the filing of charges, setting of bail, plea bargaining, and trial. The roles of the various parties in the courtroom--prosecutor, defense attorney, judge, and jury--will be analyzed. Famous trials in Anglo-American jurisprudence will be used to highlight and illustrate basic concepts.</p>		
CRJ-422	Disaster Preparedness	3	CRJ-485	Practicum in Criminal Justice	3
<p>Effective emergency planning is the key to surviving natural and man-made disasters. Risk analysis and the formulation of a comprehensive plan, followed by a vigorous and continuing testing program, are essential elements to surviving an emergency. In this course, there will be an emphasis on developing a comprehensive emergency preparedness plan.</p>			<p>Designed to place the student with a criminal justice activity for a firsthand look at how the agency functions.</p>		
CRJ-424	Command and Control/Emergency Leadership	3	CRJ-486	Capstone in Criminal Justice and Homeland Security	1
<p>Effective communication is essential during a natural or man-made disaster. Topics covered include staffing the emergency operations center (EOC), coordinating with supporting agencies, and the importance of continuing liaison.</p>			<p>Students completing this course will enhance their research, analysis and critical thinking skills through practical experience in the process of scholarship. As a capstone experience students will plan, research and write a scholarly research piece addressing a current issue within Criminal Justice or Homeland Security relevant to their interests.</p>		
CRJ-452	Interpersonal Violence	3	CRJ-490	Criminal Justice Senior Seminar	1
<p>This course will examine in some detail crimes such as murder, serial killers, child molesters, rapists, and related crimes of violence. Topics such as psychological profiling of serial killers, rapists, and child molesters will also be discussed.</p>			<p>This course will provide an opportunity for seniors in the criminal justice program to meet and discuss selected topics involving current issues facing the American system of justice. Group discussion, presentations, and brief research papers will be used in the seminar.</p>		
CRJ-461	Ethics in Criminal Justice	3	EAR-130	Earth Science	3
<p>The study of theories and practices in areas of legality, morality, values and ethics as they pertain to criminal justice with special consideration given to the application of Christian ethical principles to values clarification and decision-making in Criminal Justice agencies and social institutions that influence those agencies.</p>			<p>An introduction to the physical environment of planet earth. Selected topics from astronomy, geography, geology, and meteorology. Not open to the student who has credit in GEO-201 (Physical Geography).</p>		

EAR-131	Earth Science Lab	1	ECO-275	Economics of Poverty	3
<p>Selected laboratory experiences in the earth sciences. One laboratory period. Prior or current enrollment in EAR-130 is required.</p>			<p>An interdisciplinary analysis of one of the most publicized issues in America. Discussed are the roots and history of poverty, alleged solutions, and the social and economic consequences of these solutions. Emphasized are the discovery and application of solutions from a Biblical perspective. Prerequisite: ECO-211, ECO-212 or ECO-213.</p>		
EAR-132	Earth Science (with Lab)	4	ECO-300	Entrepreneurship	3
<p>This is a laboratory course designed to give students an understanding of the earth, its processes, history and place in the universe. Major emphasis is on geology, oceanography, meteorology, and astronomy. Human influence on the environment, locally and globally, is explored. Students will gain understanding of the basic systems, their changes, and direct and indirect relation to themselves. Opportunities to develop concept thinking and research techniques will be presented.</p>			<p>Provides greater understanding of political and economic conditions for entrepreneurial activities to enhance an understanding of risk, uncertainty, and markets, and the motivations and influence of the legal system within which an economy works. The problems of starting a new business, obtaining sufficient capital, and bringing a new business to success will be examined.</p>		
EAR-160	Rocks and Minerals	3	ECO-305	Entrepreneurship	3
<p>The occurrences, classification, and physical properties of rocks and minerals. Field tests and identification of hand specimens.</p>			<p>The basic problems of starting a new business, obtaining sufficient capital, and bringing a new business to success are examined, thereby enhancing an understanding of risk, uncertainty, and markets, and the motivations and influence of the legal system within which an economy works. Gives credit for majors in Economics or Business. Prerequisites: BUS-100 and ECO-211.</p>		
ECO-205	Basic Economics	3	ECO-315	Urban Economics and Policy	3
<p>An introduction to the principles essential to an understanding of fundamental economic problems within business and society.</p>			<p>An introduction to urban economic theory, urban spatial form, and urban policy problems. Topics include theories of urban evolution and form, regional comparative advantage and trade, urban economic growth and development, the limits to metropolitan size, land-rent gradients, public goods and externalities in urban areas, and urban policy problems: poverty, housing, segregation, transportation networks, congestion, land use planning and issues in local and regional governance and public finance. Pre-requisites: ECO-212 or ECO-213. Student should also be proficient in basic math, algebra and geometry. Knowledge of statistics will also be helpful.</p>		
ECO-211	Introduction to Economics	3	ECO-320	American Economic History	3
<p>An introduction to the principles essential to an understanding of fundamental economic problems and the policy alternatives to contend with these problems. A special emphasis is placed upon macroeconomics topics including national income, employment, fiscal policy, money, monetary policy, and American economic growth. Not recommended for any major in the Business Division.</p>			<p>A survey of the history of the United States from the economic viewpoint. Gives credit for majors in Economics or History. Prerequisite: HST-211 or HST-212, and ECO-211 or ECO-212.</p>		
ECO-212	Microeconomics	3	ECO-322	Research Design and Methods in Political Science and Economics	3
<p>Provides a background for advanced economics courses. A special emphasis is placed upon microeconomics topics including scarcity, division of labor, the economics of the firm, demand and price elasticity, and profits and competition.</p>			<p>This course will provide students with an introduction to research methods and statistical techniques used in social science research, particularly in the fields of economics and political science. This will include basic knowledge of the concepts and models employed for conducting experimental research, policy analysis and program evaluation, and unobtrusive research from data sets. Emphasis will be placed on using and applying the qualitative and quantitative techniques most widely utilized in social science research. This course gives credit for political science and history majors. Prerequisite: MAT-112 or BUS-320.</p>		
ECO-213	Macroeconomics	3			
<p>An introductory survey of macroeconomic theory emphasizing how the U.S. economy works as well as the role and influence of the U.S. economy in global markets. Topics include national income accounting, circular flow, short-run and long-run models of the economy, labor productivity and economic growth, inflation and unemployment, money, monetary and fiscal policy, and competing theories of the business cycle.</p>					
ECO-270	Comparative Economic Systems	3			
<p>An analysis of the past and present of various political-economic systems and their implications for the present economy. Systems examined include feudalism, mercantilism, socialism, communism, capitalism, welfare, and interventionism. Prerequisite: ECO-211 or ECO-213.</p>					

ECO-330	Applied Microeconomics for Business	3	ECO-463	Economic Thought	3
<p>An overview of microeconomic theory as it relates to the individual business. Microeconomics introduces the student to the overall environment in which business functions. Economic analysis explains the uses and limits of opportunity cost, marginal analysis, and market structure in managerial strategy.</p>			<p>An analysis of the derivation of economic doctrines from Smith and Ricardo through Marshall and Schumpeter to Keynes, Galbraith, and Friedman. Includes a critical examination of the theories of mercantilism, physiocracy, classicism, Marxism, neoclassicism, and contemporary economics. Gives credit toward majors in Economics or Religion/Philosophy. Prerequisite: ECO-211 or ECO-213.</p>		
ECO-331	Applied Macroeconomics for Business	3	ECO-473	Independent Learning in Economics	
<p>An overview of macroeconomic theories and policy. The course focuses on the analysis of the current national economic environment and its effects on business operations.</p>			<p>An opportunity for advanced students to pursue further study in an economic field of special interest after catalog offerings have been exhausted. Prerequisites: ECO-212, ECO-213 and consent of the Division.</p>		
ECO-340	Globalization and Economic Development	3	ECO-483	Economics Practicum	
<p>An intensive study of recent globalization trends and their impact on both developing and developed economies. A survey of economic development theories in developing economies; the role and influence of the U.S. economy in global markets. Students will discuss current theories of economic development and the arguments for and against globalization, free trade, open immigration, technological change, and the free flow of financial capital. Development topics include population growth and fertility rates, gender equity, educational opportunities for women, private property rights, regime corruption, and the role of the IMF and World Bank in developing economies. Prerequisites: ECO-211 or ECO-213 or consent of the Department.</p>			<p>An opportunity for advanced Economics majors to obtain valuable work experience and gain expertise in relating classroom material to actual business endeavor. A professional-quality paper analyzing one or more business applications will be prepared under departmental faculty supervision. May be repeated. Prerequisites: ECO-212, ECO-213 and consent of the Division.</p>		
ECO-365	Public Administration and Finance	3	ECO-498	Economics Seminar - Research	2
<p>A penetrating analysis of public administration and expenditures. Explores revenue including taxation, budget examination, and the effect of fiscal policy on the economy. Gives credit for majors in Economics or Political Science, or Public Policy. Prerequisite: ECO-212, ECO-213 or POL-100.</p>			<p>A seminar course intended to develop the senior Economics major's research skills and professional writing skills in anticipation of a major seminar presentation to be delivered publicly the following semester. Prerequisite: Senior status.</p>		
ECO-399H	Honors College Thesis/Project	3	ECO-499	Economics Seminar - Presentation	1
<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>			<p>A seminar course intended to develop the senior Economics major's professional presentation skills with the preparation and oral presentation of the results of the research in ECO-498 from the previous semester. Prerequisites: Senior status and ECO-498 .</p>		
ECO-444	Money and Banking	3	EDS-215	Teaching and Learning in Inclusive Settings	3
<p>Discusses the theory of money and banking with specific analysis of the value of money, the nature of inflation, the reappearance of business cycles, and the problem of sound and unsound money. Money supply, interest rates, foreign exchange, and the problems of competition between banking and non-banking financial institutions are examined. Gives credit for majors in Economics or Business. Prerequisite: ECO-211 or ECO-213.</p>			<p>Emphasis is placed on the definition, characteristics, and methodology unique to learners who require mild interventions.</p>		
ECO-454	International Economics	3	EDS-324	Literacy for the Adolescent With Exceptional Needs	3
<p>A study of international trade, the international monetary system, and international trade agreements as a means of broadening an understanding of the American economic system within the context of the world economy. Prerequisite: ECO-211 or ECO-213.</p>			<p>Addresses the literacy needs of the adolescent and adult learner with exceptional needs through an integrated, balanced literacy approach. Special emphasis is placed on expository reading/writing and the study skills required in the middle and high school classroom. Functional literacy skills are also examined.</p>		
			EDS-331	Critical Issues in Severe Disabilities	3
			<p>This course examines the variety of ethical, moral, legal, and programmatic issues that impact on programs for students with severe disabilities. This process of examination will focus on historical practices, legislation, litigation, and the perspectives of professionals, consumers, and family members. Prerequisites: PSY-276 and EDS-215.</p>		

<p>EDS-332 Community-Based Instruction, Supports, And Services 3</p> <p>Individuals with severe disabilities often require a network of instructional experiences, informal supports, and formal services. This course provides students with the skills necessary to evaluate the learning needs of students with severe disabilities and develop/implement instructional programs in school and community settings. Prerequisite: EDS-331.</p>	<p>EDS-370 Public Policy and Special Education 3</p> <p>Considers legislation and court cases that assure an education for all learners with disabilities. Centers on relevant federal, state, and local procedures for implementing special education.</p>
<p>EDS-333 Interdisciplinary Collaboration 3</p> <p>Services and supports for individuals with severe disabilities are generally provided by professionals from a variety of disciplines including education, medicine, psychology, occupational and physical therapy, religion, and social work. This course focuses on the unique contributions of each discipline and the skills necessary for teachers to effectively and collaboratively plan programs of instruction. Prerequisite: EDS-331.</p>	<p>EDS-373 Early Childhood Practicum 3</p> <p>This course emphasizes the early childhood curriculum, planning for teaching, classroom management and teacher-student interactions. It requires the application of knowledge acquired in EDU-271. Experience will be gained through 150 hours of participation and supervision in a primary setting (K-3) under the direction of a cooperating teacher and university supervisor in an accredited school. Professional development seminars will be included. Prerequisites: EDU-290 and EDU-271. Co-requisites: EDS-388, EDS-354, EDS-355, EDS-365 and Admission to the Teacher Education Program.</p>
<p>EDS-350 Assessment in Special Education 3</p> <p>Develops competency in formal and informal assessment. Emphasizes the educational implications of obtained results in programming for learners with disabilities. Stresses practicum experiences specific to the student's course of study.</p>	<p>EDS-381 Methods for Teaching Children With Exceptional Needs 3</p> <p>Reviews the instructional and curricular approaches which accommodate the academic, social, cognitive, communication, and physical needs of the elementary learner with disabilities. Special emphasis is placed on meeting familial and classroom teacher needs.</p>
<p>EDS-350P Assessment in Special Education Practicum 1</p> <p>Students will be involved in a practical experience in a local school setting which will provide a "laboratory" for the application of the principles of assessment in special education. Co-requisite: EDS-350 (Assessment in Special Education). Graded on a CR/NC basis.</p>	<p>EDS-382 Methods for Teaching Adolescents With Exceptional Needs 3</p> <p>Focuses on methods and materials that meet the educational needs of adolescent and young adult learners with disabilities. Presents a variety of curriculum approaches, including functional/vocational, learning strategies, and compensatory.</p>
<p>EDS-354 Language Arts Methods 2</p> <p>This course provides a study of methods and materials used in developing an integrated language arts program in the elementary classroom. Strategies for incorporating speaking, listening, reading, writing, grammar, spelling, and handwriting as part of thematic units are emphasized. NCTE and IRA guidelines are used as standards of proficiency. Field Experience provided through EDU-373. Work in this course is done in conjunction with EDU-388 (Developmental Reading) and EDU-365 (Children's Literature), and EDU-355 (Social Studies Methods). Prerequisite: Admission to the Teacher Education Program. (Component of Junior Professional Year).</p>	<p>EDS-385 Special Education Practicum I 3</p> <p>Ninety hours of field experience within a public school classroom under the direction of a classroom teacher and university supervisor. The student must be placed in a resource room or regular classroom with an inclusionary component. Course includes college seminars which provide an overview and guidelines for classroom observation and participation strategies.</p>
<p>EDS-361 Behavior Management in Special Education 3</p> <p>Examines instructional practices and methodologies that permit effective behavioral management of learners with mild disabilities in various settings. Focuses on various techniques and methods of applied behavior analysis to both manage the behavior and environment. Stresses practicum experiences specific to the student's course of study.</p>	<p>EDS-386 Special Education Practicum II 3</p> <p>See EDS-385. Graded on a CR/NC basis.</p> <p>EDS-387 Special Education Practicum III 3</p> <p>See EDS-385. Graded on a CR/NC basis.</p>

EDS-388	Developmental Reading	3	EDU-216	Literature, the Young Child, and Response	2
<p>This course studies the theories, approaches, and methodology of teaching reading/literacy in the elementary classroom. Emphasis is placed on the planning and teaching of reading/literacy as an integrated, balanced literacy approach. Strategies for integrating skills such as phonics into meaningful literacy lessons are examined. Students identify components of a total Language Arts/literacy program which integrates various theories and strategies based on current research and recommendations of the International Reading Association. Co-requisite: EDU-354 (Language Arts Methods) and EDU-365 (Children's Literature). Prerequisite: Admission to the Teacher Education Program.</p>			<p>This in-depth course for early/middle childhood majors (K-6) is designed to encourage the student to take a critical look at the art of literature for young children and explore the possibilities of response to that literature. Emphasis will be placed on the careful selection of developmentally appropriate quality literature of various genre. A range of response modes is also explored which include drama, movement, music, and illustration to support students' transactions with text. The course also includes a study of how multicultural perspectives in literature can be considered in order to transform students' knowledge, attitudes and behaviors through careful selection of books for literature-based instruction.</p>		
EDS-399H	Honors Thesis/Project	3	EDU-218	Critical Issues in Education	
<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>			<p>This course is intended to help education majors to synthesize, integrate, and apply their understanding of current trends and critical issues in the field of education. It will explore, in depth, various topics of relevance to educations, and will deepen the education majors' understanding and application of issues presented in the professional education course sequence. Topics will be developed and decided by department. Prerequisite: successful completion of EDU-130, American Education, and completion of 32 credit hours or permission of the Division. Elective credit only.</p>		
EDS-494	Student Teaching Seminar	1			
<p>See EDU-495. Graded on a CR/NC basis.</p>					
EDS-496	Supervised Student Teaching in Special Education	15	EDU-240	Educational Psychology	3
<p>Full-time supervised student teaching in accredited schools within Grant County and surrounding areas. Each student will receive two placements of eight weeks each. The placements will be diversified according to the student's program and the licensing requirements. Each student assumes, under the direction of the selected cooperating teacher and with university supervision, responsibility for teaching in the cooperating school. The student teaching will last for a full semester.</p>			<p>A study of the learning processes, methods of evaluation, and basic classroom management techniques. Special attention is devoted to students with special needs and multicultural perspectives. Prerequisites: EDU-130 and PSY-150.</p>		
EDU-130	American Education	3	EDU-250	Principles of Teaching	3
<p>An orientation course for students who expect to enter the teaching profession. Considers the history, principles, problems, and philosophy of public education in American society. Study of the desired competencies in teaching, evaluation of one's own capacities, interests, and abilities, and planning of one's professional career.</p>			<p>The general methods course for senior high/junior high/middle school majors emphasizing lesson design, mastery teaching, motivation, effective instruction, classroom management, learning styles, and multicultural diversity.</p>		
EDU-200	Educational Technology	1	EDU-265	Literature for Adolescents	3
<p>This course provides an opportunity for the education major to develop skills in using word processing, database, Power Point, spreadsheet applications and webquest development. Application of the uses of the Internet will be included. Foundation to this course are the standards as set forth by the International Society of Technology in Education (ISTE) in their National Education Technology Standards for Teachers (NETS*T): Also, the student will understand the National Educational Technology Standards for Students (NETS) Basic operations and concepts, social, ethical, and human issues, Technology productivity tools, Technology communications tools, Technology research tools, Technology problem-solving and decision-making tools and how these standards will impact future teachers.</p>			<p>Literature for Adolescents emphasizes applying criteria for evaluation, selection, and utilization of literature by reading actual selections, reader response, and discussion. Cultural diversity, developmental appropriateness, appreciation for literature, and lifelong learning are set in the context of current research. The integration of faith and learning is a strong component of the course.</p>		
			EDU-271	Foundations in Early Childhood	3
			<p>This course is designed to provide an overview of Early Childhood education including an historic perspective and an understanding of the early childhood curriculum based on developmentally appropriate practice as defined by the National Association of Young Children (NAEYC). Creating, organizing and managing an effective learning environment as well as developing strategies for observing and assessing the young child will be emphasized.</p>		

EDU-290	Elementary Education in a Pluralistic Society	3	EDU-306	Mathematics Methods and Materials	3
<p>This introductory course for early/middle childhood majors (K-6) is designed to expose the student to the varied teaching strategies/methodologies of classroom management, lesson preparation and presentation, and selection of developmentally appropriate learning activities. The course includes a study of how multicultural perspectives can be reflected in curricular design, planning and evaluating, instructional design and assessment, professional practice, and teachers' and students' knowledge, attitudes and behaviors. Current educational issues such as diversity in the classroom and parent involvement are discussed. This course is a prerequisite to Stage C Courses. Prerequisite: EDU-130 or permission of the Division.</p>			<p>This course is taken in conjunction with EDU-391, Junior Professional Year Clinical Experience. The course fosters the application of methods in the classroom clinical experience. Special emphasis is taken on the use of concrete materials and the transfer to representative and symbolic mathematical language.</p>		
EDU-292	Fine Arts for Elementary Teacher	3	EDU-324	Literacy in Diverse Classrooms	3
<p>A course designed to acquaint the elementary education major with elements of movement, music, theater, and the several visual arts as primary media for communication, inquiry, and insight among elementary students. The visual arts component of the class includes teaching techniques and skills in handling the various art materials suitable for the elementary school classroom. A strong emphasis is placed on integrating art into the other elementary subjects. The music component of the class includes a general knowledge of the fundamentals of music, developed through singing, listening, playing, performing, moving and creating. The music component also emphasizes the uniqueness of music as well as the integration of music in other content area. Prerequisite: EDU-290.</p>			<p>This course serves to introduce pre-service teachers to the problems involved in learning from text. This course emphasizes practical strategies of reading and writing and methods of teaching from text that are particularly appropriate for use in middle schools and high schools. This course also addresses issues of student diversity and characteristics of texts for the less able reader to the gifted/talented. Emphasis is placed on the integration of various theories and strategies based on current standards, research and recommendations of IRA, NCTE, NCTM, NCSS, ASCD, etc. Prerequisite: Admission to the Teacher Education Program, or permission of the instructor.</p>		
EDU-295	Elementary School Observation/Participation (k-6)		EDU-354	Language Arts Methods	2
<p>Three weeks of full-time field experience within a public/private school classroom under direction of a classroom teacher and university supervisor. Course includes college seminars which provide overview and guidelines for classroom observation strategies. May Term. Prerequisites: EDU-130 or permission of instructor. Graded on a CR/NC basis.</p>			<p>This course provides a study of methods and materials used in developing an integrated language arts program in the elementary classroom. Strategies for incorporating speaking, listening, reading, writing, grammar, spelling, and handwriting as part of thematic units are emphasized. NCTE and IRA guidelines are used as standards of proficiency. Field Experience provided through EDU-373. Work in this course is done in conjunction with EDU-388 (Developmental Reading) and EDU-365 (Children's Literature), and EDU355 (Social Studies Methods). Prerequisite: Admission to the Teacher Education Program. (Component of Junior Professional Year).</p>		
EDU-295D	Observation and Participation in an Intercultural Setting	2	EDU-355	Social Studies Methods	3
<p>Two weeks of full-time field experience within a public/private school classroom in an intercultural setting under the direction of a classroom teacher. Course includes a college seminar which provides an overview and guidelines for classroom strategies. May Term. Prerequisites: EDU-130 or permission of the department. Graded on a CR/NC basis.</p>			<p>This course introduces current and emerging ideas and trends for elementary education majors, grades K-6. The focus will be on the development of an integrated/interdisciplinary curriculum. Emphasis on objectives and standards, discovery-inquiry, teaching strategies for diverse learners, and lesson plan/unit plan development will facilitate competency. Special attention will be given to an inclusive environment with differentiated instruction. Based on NCSS standards. Field experience included; component of the Junior Professional Year.</p>		
EDU-296	Secondary School Observation/Participation		EDU-356	Science Methods	3
<p>Two weeks of full-time field experience within a public/private school classroom under direction of a classroom teacher and university supervisor. Course includes college seminars which provide overview and guidelines for classroom observation strategies. May Term. Prerequisites: EDU-130, or permission of instructor. Graded on a CR/NC basis.</p>			<p>An emphasis is placed on understanding and implementing Guided Discovery Approach. Emphasis on writing performance objectives, discovery-inquiry, teaching strategies, and unit development will facilitate competency in these disciplines. Special attention will be given to learning-styles differentiation. Based on NSF and NCSS standards. Field experience included. Offered during Spring semester. Prerequisite: Admission to the Teacher Education Program. (Component of Junior Professional Year.)</p>		

- EDU-360 Elementary Practicum 3**
 Observation and participation in a public/private school classroom. Experience shall be gained under the direction of an identified supervising teacher, with university-provided supervision at the level appropriate to the area, and in an accredited school within the state of Indiana. Prerequisite: Admission to the Teacher Education Program. Graded on a CR/NC basis.
- EDU-365 Children's Literature 3**
 The primary focus of this course is literature for young children and elementary students. It is designed to equip teachers to evaluate, select, and utilize literature for children from a wide range of genres with emphasis on reading aloud, storytelling, authors/illustrators, cultural diversity, and current research in the field within the framework of integration of faith and learning. Methodological strategies are addressed through the actual reading of selections. Field experience included. Prerequisite: Admission to the Teacher Education Program. (Component of the Junior Professional Year).
- EDU-373 Early Childhood Practicum 3**
 This course emphasizes the early childhood curriculum, planning for teaching, classroom management and teacher-student interactions. It requires the application of knowledge acquired in EDU-271. Experience will be gained through 150 hours of participation and supervision in a primary setting (K-3) under the direction of a cooperating teacher and university supervisor in an accredited school. Professional development seminars will be included. Graded on a CR/NC basis. Prerequisites: EDU-290 and EDU-271. Co-requisites: EDU-388, EDU-354, EDU-355, and EDU-365, and Admission to the Teacher Education Program.
- EDU-382 Methods of Teaching Senior High/ Junior High/Middle School Subjects 3**
 The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program. Co-requisite: EDU-382C.
- EDU-382AR Methods of Teaching Senior High/ Junior High/Middle School Art 3**
 The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program. Co-requisite: EDU-382C.
- EDU-382C Methods of Teaching Senior High/Junior High/Middle School Practicum 1**
 The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Field experiences will be offered in appropriate subject areas and grade levels. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program.
- EDU-382EN Methods of Teaching Senior High/Junior High/Middle School English 3**
 The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program. Co-requisite: EDU-382C.
- EDU-382HE Methods of Teaching Senior High/Junior High/Middle School Math 3**
 The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program. Co-requisite: EDU-382C.

EDU-382MA Methods of Teaching Senior High/Junior 3
High/Middle School Math

The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program. Co-requisite: EDU-382C.

EDU-382MU Methods of Teaching Senior High/Junior 3
High/Middle School Music

The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program. Co-requisite: EDU-382C.

EDU-382PE Methods of Teaching Sr High/Jr High/ 3
Middle School Physical Education

The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program. Co-requisite: EDU-382C.

EDU-382SC Methods of Teaching Senior High/Junior 3
High/Middle School Science

The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program. Co-requisite: EDU-382C.

EDU-382SP Methods of Teaching Senior High/Junior 3
High/Middle School Spanish

The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program. Co-requisite: EDU-382C.

EDU-382SS Methods of Teaching Sr High/Jr High/ 3
Middle School Social Studies

The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program. Co-requisite: EDU-382C.

EDU-382TE Methods of Teaching Sr High/Jr High/ 3
Middle School Teaching English to

The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program. Co-requisite: EDU-382C.

EDU-382VA Methods of Teaching Senior High/Junior 3
High/Middle School Visual Arts

The separate divisions of this course are given by instructors in the various departments. General methods of teaching for secondary majors include planning, teaching techniques, models of teaching, learning theories, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special-needs learners as applied to teaching. Variations of this class are offered for English, Mathematics, Music, Physical and Health Education, Science, Spanish, Social Studies, Teaching English to Speakers of Other Languages, and Visual Arts Education majors. Prerequisite: Admission to the Teacher Education Program. Co-requisite: EDU-382C.

**EDU-383EN Senior High/Junior High/Middle School
Practicum - English**

Observation and participation in a public/private school classroom. Experience shall be gained under the direction of an identified supervising teacher, with university-provided supervision at the level appropriate to the area, and in an accredited school within the state of Indiana. (Should be taken in the semester immediately preceding student teaching.) Prerequisites: EDU-382, EDU-382C and Admission to the Teacher Education Program.

**EDU-383MA Senior High/Junior High/Middle School
Practicum - Math**

Observation and participation in a public/private school classroom. Experience shall be gained under the direction of an identified supervising teacher, with university-provided supervision at the level appropriate to the area, and in an accredited school within the state of Indiana. (Should be taken in the semester immediately preceding student teaching.) Prerequisites: EDU-382, EDU-382C and Admission to the Teacher Education Program.

**EDU-383MU Senior High/Junior High/Middle School
Practicum - Music**

Observation and participation in a public/private school classroom. Experience shall be gained under the direction of an identified supervising teacher, with university-provided supervision at the level appropriate to the area, and in an accredited school within the state of Indiana. (Should be taken in the semester immediately preceding student teaching.) Prerequisites: EDU-382, EDU-382C and Admission to the Teacher Education Program.

**EDU-383PE Senior High/Junior High/Middle School
Practicum - Physical Education**

Observation and participation in a public/private school classroom. Experience shall be gained under the direction of an identified supervising teacher, with university-provided supervision at the level appropriate to the area, and in an accredited school within the state of Indiana. (Should be taken in the semester immediately preceding student teaching.) Prerequisites: EDU-382, EDU-382C and Admission to the Teacher Education Program.

**EDU-383SC Senior High/Junior High/Middle School
Practicum - Science**

Observation and participation in a public/private school classroom. Experience shall be gained under the direction of an identified supervising teacher, with university-provided supervision at the level appropriate to the area, and in an accredited school within the state of Indiana. (Should be taken in the semester immediately preceding student teaching.) Prerequisites: EDU-382, EDU-382C and Admission to the Teacher Education Program.

**EDU-383SP Senior High/Junior High/Middle School
Practicum - Spanish**

Observation and participation in a public/private school classroom. Experience shall be gained under the direction of an identified supervising teacher, with university-provided supervision at the level appropriate to the area, and in an accredited school within the state of Indiana. (Should be taken in the semester immediately preceding student teaching.) Prerequisites: EDU-382, EDU-382C and Admission to the Teacher Education Program.

**EDU-383SS Senior High/Junior High/Middle School
Practicum - Social Studies**

Observation and participation in a public/private school classroom. Experience shall be gained under the direction of an identified supervising teacher, with university-provided supervision at the level appropriate to the area, and in an accredited school within the state of Indiana. (Should be taken in the semester immediately preceding student teaching.) Prerequisites: EDU-382 and EDU-382C and Admission to the Teacher Education Program.

**EDU-383TE Senior High/Junior High/Middle School
Practicum - Teaching English**

Observation and participation in a public/private school classroom. Experience shall be gained under the direction of an identified supervising teacher, with university-provided supervision at the level appropriate to the area, and in an accredited school within the state of Indiana. (Should be taken in the semester immediately preceding student teaching.) Prerequisites: EDU-382, EDU-382C and Admission to the Teacher Education Program.

**EDU-383VA Senior High/Junior High/Middle School
Practicum - Visual Arts**

Observation and participation in a public/private school classroom. Experience shall be gained under the direction of an identified supervising teacher, with university-provided supervision at the level appropriate to the area, and in an accredited school within the state of Indiana. (Should be taken in the semester immediately preceding student teaching.) Prerequisites: EDU-382, EDU-382C and Admission to the Teacher Education Program.

EDU-386 Corrective Reading 3

This course provides prospective teachers with practical experience in classroom diagnosis of reading problems as well as techniques, methods, and materials involved in remediation. Diagnostic Teaching strategies based on current research and International Reading Association guidelines are emphasized. Field experience provided through EDU-391. Prerequisites: Admission to the Teacher Education Program, EDU-354, and EDU-388. (Component of Junior Professional Year).

EDU-388 Developmental Reading 3

This course studies the theories, approaches, and methodology of teaching reading/literacy in the elementary classroom. Emphasis is placed on the planning and teaching of reading/literacy as an integrated, balanced literacy approach. Strategies for integrating skills such as phonics into meaningful literacy lessons are examined. Students identify components of a total Language Arts/literacy program which integrates various theories and strategies based on current research and recommendations of the International Reading Association. Co-Requisites: EDU-354 (Language Arts Methods) and EDU-364 (Children's Literature). Field experience provided through EDU-373. Prerequisite: Admission to the Teacher Education Program. (Component of Junior Professional Year).

<p>EDU-391 Junior Professional Year Clinical 3</p> <p>Experience applying the methods of the junior professional semester in the public/private school classroom. Students spend one-half of each day (afternoons, a total of 150 hours) each semester working alongside a practicing teacher. Graded on a CR/NC basis.</p>	<p>EDU-492 Supervised Student Teaching Sr High/Jr High/Middle School/Elementary 15</p> <p>(Art, Music, Physical and Health Education) Full-time student teaching in accredited schools under the direction of a supervising teacher who has participated in supervisory seminars conducted by the Indiana Wesleyan Teacher Education Program (with the exception of cross-cultural student teaching placements). Students may, if selected, participate in the cross-cultural Student Teaching Experience in an approved overseas school. Each student will receive two 8-week placements. Placements will be diversified according to the student's program and licensing requirements. Prerequisites: Admission to Student Teaching and successful completion of Stages A-C of the Teacher Education Program. Graded on a CR/NC basis.</p>
<p>EDU-392 Intercultural Tutoring Practicum 1</p> <p>Individually arranged program of tutoring experience during which the college practicum student tutors a student from another cultural background who is struggling academically. The tutor will assess learning and plan remediation strategies for the child. This practicum will be under the direction of a University Supervisor. This experience will last no less than 10 weeks and will include two sessions weekly at 2 hours each. Prerequisites: Admission to the Teacher Education Program and successful completion of Stage C courses.</p>	<p>EDU-493 Elementary Education/Intercultural Student Teaching Experience 15</p> <p>Full-time student teaching in an International Student Teaching Experience in an approved overseas school. Each student will receive two 8-week placements. Placements will be diversified according to the student's program and licensing requirements. Prerequisites: Admission to Student Teaching and successful completion of Stages A-C of the Teacher Education Program. Graded on a CR/NC basis.</p>
<p>EDU-399H Honors Thesis/Project 3</p> <p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>	<p>EDU-495 Student Teaching Seminar 1</p> <p>A seminar stressing a professional examination of principles of classroom instruction and management, certification, job search procedures, interviewing strategies, mock interviews, accountability, and current issues in education. Activities relate theory to practical experience. An emphasis is placed upon the individual's refinement of reflective analysis skills regarding instructional/managerial strategies. Graded on a CR/NC basis.</p>
<p>EDU-471SC Methods of Teaching Junior High/Middle School Science 3</p> <p>See EDU-471LA.</p>	<p>ELE-365 Introduction to Children's Literature 3</p> <p>The primary focus of this course is literature for young children and elementary students. It is designed to enable students to evaluate, select, and utilize literature for children from a wide range of genres with emphasis on reading aloud, storytelling, authors/illustrators, cultural diversity, and current research in the field within the framework of integration of faith and learning. Methodological strategies are addressed through the actual reading of selections. This course does not meet a general education English requirement; a student with credit in EDU-365 cannot register for this course.</p>
<p>EDU-471SS Methods of Teaching Junior High/Middle School Social Studies 3</p> <p>See EDU-471LA.</p>	<p>ENG-100 English Pre-Composition 3</p> <p>Develops fundamental skills of writing. Students practice techniques in the various stages of the writing process: pre-writing, drafting, revising, rewriting, and editing. Also focuses on grammar, usage, and punctuation. Students must complete this course with a grade of "C" or above in order to advance to ENG-120. Credits cannot be counted toward an English major or any General Education requirements.</p>
<p>EDU-490 Supervised Student Teaching in Senior/Junior High/Middle School (5-12) 15</p> <p>Full-time student teaching in accredited schools under the direction of a supervising teacher who has participated in supervisory seminars conducted by the Indiana Wesleyan Teacher Education Program (with the exception of cross-cultural student teaching placements). Students may, if selected, participate in the cross-cultural Student Teaching Experience in an approved overseas school. Each student will receive two 8-week placements. Placements will be diversified according to the student's program and licensing requirements. Prerequisites: Admission to Student Teaching and successful completion of Stages A-C of the Teacher Education Program. Graded on a CR/NC basis.</p>	
<p>EDU-491 Supervised Student Teaching in Elementary School (k-6) 15</p> <p>Full-time student teaching in accredited schools under the direction of a supervising teacher who has participated in supervisory seminars conducted by the Indiana Wesleyan Teacher Education Program (with the exception of cross-cultural student teaching placements). Students may, if selected, participate in the cross-cultural Student Teaching Experience in an approved overseas school. Each student will receive two 8-week placements. Placements will be diversified according to the student's program and licensing requirements. Prerequisites: Admission to Student Teaching and successful completion of Stages A-C of the Teacher Education Program. Graded on a CR/NC basis.</p>	

ENG-101	Critical Reading and Study Skills	3	ENG-180	Humanities World Literature	3
<p>Provides a foundation of reading strategies and skill practice enabling students to develop comprehension and vocabulary skills for use within and after the university setting. Includes a thorough investigation of study skills and materials. Students must score at the 13.0 grade level or higher on a university-approved standardized reading comprehension and vocabulary test, and must complete the course with a grade of "C" or higher. Credits cannot be counted toward any major or General Education Requirement.</p>			<p>Designed to acquaint students with major authors in world literature in the context of world history and culture--strengthening students' reading skills while deepening their intellectual, cultural, and spiritual experience.</p>		
ENG-120	English Composition	3	ENG-201	Speed Reading	1
<p>Develops skills in various methods of writing. Students will write expressive and expository essays using processes of pre-writing, drafting, revising, and editing. They will evaluate and synthesize data, sources, and ideas to develop a research essay. Completion of ENG-120 with a grade of "C" or better will fulfill the writing competency requirement. Credits cannot be applied to an English or Writing major or minor. Prerequisite: Adequate SAT/ACT verbal scores or completion of ENG-100 with a grade of "C" or higher.</p>			<p>Computer-assisted course for students who want to increase reading speed while enhancing reading comprehension and vocabulary. Also useful to increase fluency in understanding text books for undergraduate and anticipated graduate work. Includes an online reading program as well as classroom instruction. Not available to students who have taken ENG-101, Critical Reading and Study Skills.</p>		
ENG-121	English Composition II	3	ENG-220	Approaches to Literary Analysis	3
<p>Prompts students to develop writing skills by using pre-writing, drafting, revising, and editing. In this process-oriented class students will complete several essays analyzing literature read in the course. Students will employ both expository and persuasive aims of discourse, as well as participate in workshops with peer editing. Includes impromptu writing and documented research essay.</p>			<p>A foundation for the critical analysis of literature, with emphasis on informed reading and written response to selections from poetry, fiction, and drama, while incorporating basic literary terms and basic theories of criticism. Prerequisite: Major in English, English Education, Writing, or permission of the Division.</p>		
ENG-140	Communications I	3	ENG-233	American Literature Survey	3
<p>Provides a basic understanding of the writing process with emphasis on those skills necessary for successful expository writing.</p>			<p>A chronological study of the development of American literature, including literature of authors of color, from Thomas Hariot and other Colonial and Revolutionary authors through the American Renaissance to the present day. Provides an extensive factual overview with in-depth study of selected works to develop both wide and critical reading.</p>		
ENG-141	Communications II	3	ENG-235	American Literature (Literary Period or Region)	3
<p>Provides an advanced understanding of the writing process as applied in business situations. Development of critical thinking skills in reading and self-expression will be stressed. (Must be passed with a grade of "C" or higher.)</p>			<p>Focused study of one American literary period or one American literary region covered only briefly by other courses offered. Possibilities include New England Transcendentalism, American Realism, The Harlem Renaissance, Ex-patriot Literature, The Beat Movement, Literature of the South or Midwest, Literature of Borders (Canadian, Mexican, Puerto Rican, etc.). May be repeated once under a different topic.</p>		
ENG-170	Introduction to Linguistics	3	ENG-236	British Gothic/Romantic Novel	3
<p>Introduces the major areas and theories in the study of human language: its sound patterns, the structure of words and sentences, the nature of meaning, language use in society, and the ways languages vary and change over time and space. Provides a foundation for all other TESOL courses, for the study and teaching of a foreign language, and for a deeper understanding of the function of language in human communication.</p>			<p>Focus on the novels/novellas of the British Gothic/Romantic Period: 1764 to 1850. Study will center on how themes and questions of power, terror, gender, ethics, and religion are combined into the artistry of the works. Might include selections from Shelley, Robert Louis Stevenson, Bram Stoker, Charlotte Bronte, or Walter Scott.</p>		

ENG-237	British Literature (Literary Period or Region)	3	ENG-261	The American Novel	3
<p>Intensive study of one British literary period or one British literary region covered only briefly by other courses offered: The Eighteenth Century British Novel, World War I British Literature, British Lake District Literature, Scottish Literature, and Irish Literature, for examples. May be repeated once under a different topic.</p>			<p>A chronological study of the American novel from its beginnings in the Nineteenth Century to the present. Emphasis will be on works representative of major authors (i.e., Twain), important types (i.e., novel of manners), and significant American themes (i.e., slavery, racism).</p>		
ENG-238	C.S. Lewis	3	ENG-290	The European Novel	3
<p>A careful reading of one Twentieth Century British writer who inspirationally presents the Christian message through works in several genres: fantasy, autobiography, satire, argument, fiction, letters, exposition, and literary criticism.</p>			<p>A study focused on the Nineteenth Century novel in continental Europe, from its romantic origins to its realistic and naturalistic development. Authors will include Tolstoy, Dostoyevsky, Balzac, Flaubert, and Zola, as well as supplementary readings to place novels in their historical, social, and philosophical milieus.</p>		
ENG-239	Nineteenth-Century British Literature and Culture	3	ENG-352	History of English Language	3
<p>Careful reading and study of selected nineteenth-century British novelists and poets, perhaps including Walter Scott, the Brontes, Robert Burns, and William Wordsworth. Considerable attention is given to the following: a chronological survey of British history; the imagery, figurative language, philosophy, and artistry of the poetry and prose; and contrasts between British and American cultures.</p>			<p>An introduction to the history of English by the application of varied linguistic techniques to Old, Middle, and Modern English. Includes major units on the English sound system, the origins and evolutions of English, the sources and formation of vocabulary, English grammar and syntax, and English usage and dialect.</p>		
ENG-240	British Literature Survey	3	ENG-360	Modern Drama	3
<p>A chronological study of the development of British literature. Beginning with Chaucer and working toward the present, this course focuses on selected authors as well as on the historical/philosophical milieu from which their literatures grow.</p>			<p>Intensive reading of selected American, British, and European plays from 1879 to the present. Analysis and critical literature will focus on significant twentieth-century and contemporary theatrical trends such as realism, expressionism, and the absurd.</p>		
ENG-241	Studies in English Grammar	3	ENG-361	Shakespeare	3
<p>Analysis of the forms, functions, and arrangements of words that signal meaning in our system of language. Topics include (but are not limited to) sentence patterns and types, modification principles and applications, concord, complementation, logic of structure, mechanical accuracy, and punctuation precision. Course objective is operational command of the syntax of English.</p>			<p>Focus on Shakespeare's drama, including comedies and tragedies. Methods of study feature analysis of text, integration of selected critical literature, dramatic interpretation teams, informal writing, and a significant critical essay.</p>		
ENG-242	Literature and Ideas	3	ENG-362	Victorian Literature	3
<p>Traces the impact of a particular literary focus or theme that recurs through British and /or American literature. Examples would include war literature, literature of protest, men and women in conflict, cinema and the novel, family dynamics, etc. May not be repeated.</p>			<p>Careful reading of major poetry and prose (Lord Tennyson through Dante Rossetti and John Carlyle through John Stuart Mill) with attention to the historical and philosophical milieu (Pre-Raphaelite painters, for example). Selected critical literature integrated with text analysis.</p>		
ENG-260	The British Novel	3	ENG-364	Romantic Literature	3
<p>A chronological study of the development of the British novel. Selections begin with Daniel Defoe and move toward the present. Selections will show emphasis on major authors and on forms of the novel, including epistolary, autobiographical, picaresque, historical, and psychological. A variety of modes will be included, including romanticism, realism, and naturalism.</p>			<p>Careful reading of major poetry and prose (William Blake through Keats, Lamb, Hazlitt, and DeQuincey) with attention to the historical and philosophical milieu.</p>		
			ENG-365	British Literature of the Twentieth Century	3
			<p>Careful study of major poetry and prose (Thomas Hardy to the present) with attention to the historical and philosophical milieu. Selected critical literature integrated with text analysis.</p>		

ENG-370	Twentieth-Century American Literature	3	ENG-430	Contemporary Literature	3
<p>Close reading and critical study of selected works of major American poetry and prose of the twentieth century. Special attention to the characteristics and implications of realism, modernism, and postmodernism.</p>			<p>A careful study of selected literature by contemporary American and/or British authors. Selections may include short stories, poetry, drama, and the novel. Focus is on both artistry of language and on the impact of the author's thinking on contemporary culture. Literature includes major selections from minority authors.</p>		
ENG-371	American Renaissance	3	ENG-440	Literary Criticism	3
<p>Study of major writers in the period 1830 to 1870 with attention to Emersonian transcendentalism as evidenced in his own work and as it influenced in varied ways the aesthetics and practices of Thoreau, Hawthorne, Melville, and Whitman.</p>			<p>A study of historical and contemporary theories of criticism, from Plato and Aristotle through New Criticism, structuralism, deconstruction, New Historicism, and other modern approaches. Theory is applied to selected works to test contribution and validity and to aid students in developing an eclectic and valid theory of their own.</p>		
ENG-372	Hawthorne	3	ENG-455	Approaches to Modern English Grammar	3
<p>Study of Hawthorne--the man, his times, his aesthetics, and his works--centered on his American Notebooks, his short stories and essays, and a selection of his novels, including <i>The Scarlet Letter</i> and <i>The Marble Faun</i>.</p>			<p>Intensive linguistic study of the grammars of modern English.</p>		
ENG-373	American Short Fiction	3	ENG-462	Milton	3
<p>Study of the development of the American short story from Irving, Hawthorne, and Poe through local color writers, experimentalists, James, realists, and naturalists to the great variety of current practices.</p>			<p>Close reading of complete text of <i>Paradise Lost</i> and other works. Analysis will give attention both to the religio-political environment of the English Civil War and Commonwealth and to Milton's special place as a Renaissance and Reformation man who belongs to the small circle of great epic writers.</p>		
ENG-374	American Poetry	3	ENG-466	Chaucer	3
<p>A chronological study of a selection of classic American poets from Bradstreet and Taylor through Eliot and Frost, concluding with study of a large number of recent and current poets.</p>			<p>A literary and linguistic study of Chaucer's work, including <i>The Canterbury Tales</i> (read in Middle English). Focuses on Chaucer's themes, era, and style, and on the semantics, phonology, morphology, and syntax of Middle English.</p>		
ENG-383TE	Senior High/Junior High/Middle School Practicum - Teaching English	3	ENG-468	Pre-Twentieth Century British Literature - Advanced Study	3
<p>Observation and participation in a public/private school classroom. Under the direction of an identified supervising teacher, with university-provided supervision in the endorsement or minor area and at the level appropriate to the area, and in an accredited school within the state of Indiana. (Should be taken in the semester immediately preceding student teaching.) Prerequisites: EDU-382 and Admission to the Teacher Education Program.</p>			<p>Designed to provide an occasional course emphasizing a specific author or group of authors for advanced students. Examples: a study in Walter Scott, Charlotte Bronte, or Charles Dickens. Selected critical literature integrated with text analysis. May be repeated under different authors.</p>		
ENG-391L	Directed Studies in English		ENG-469	Post-1900 British Literature - Advanced Study	3
<p>Prepares students to perform basic research using Off Campus Library Services (OCLS), electronic periodical indexes, and information resources. Students will identify and select appropriate material for inclusion in a college level research project which will be submitted at the conclusion of the course. (1 or 2 credit hours)</p>			<p>Designed to provide an occasional course emphasizing a specific author or group of authors for advanced students. Examples: T.S. Eliot, William Butler Yeats, or World War I poets.</p>		
ENG-399H	Honors Thesis/Project	3	ENG-476	American Literature to 1830	3
<p>Students will work under a faculty mentor in their major and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>			<p>A study of "firsts"--reading in Colonial writings, including voyage and travel logs, polemical works, sermons, histories, biographies, diaries, journals, almanacs, and poetry, followed by study of the independence documents and the beginnings of belles lettres: Romantic poetry, essay, short story, drama, and novel.</p>		

ENG-477	Melville	3	ENT-341	Organizational Intrapreneurship	3
<p>Intensive study of Melville's work from Typee to Mardi to Moby Dick to Billy Budd. His milieu, his friendship with Hawthorne, his aesthetics, his life revealed in The Melville Log, are considered in relation to his work, but the emphasis is on critical reading of five novels.</p>			<p>This course focuses on the development of ideas within an organization and seeing those ideas become operational reality. Students will review the intrapreneurial process, identify opportunities, building the intrapreneurial foundation and learn how to deal with the challenges of being entrepreneurial within an organization all within the context of biblical principles. Prerequisite: Admission to the Business Division.</p>		
ENG-478	Pre-Twentieth Century American Literature - Advanced Study	3	ENT-399	Service Learning	3
<p>Designed to provide an occasional course emphasizing a specific author or group of authors for advanced students. Offered as a study in Mark Twain, a study in Henry James, a study in Longfellow/Lowell/Holmes. May be repeated under different topics.</p>			<p>Service-Learning is an educational experience in which students participate in organized service activities that meet identified community and/or university needs. Prerequisite: Admission to the Business Division.</p>		
ENG-479	Post-1900 American Literature - Advanced Study	3	ENT-455	Entrepreneurial Planning and Strategy	3
<p>Designed to provide an occasional course emphasizing a specific author or group of authors for advanced students. Offered as a study in Robert Frost, modern novelists, and postmodern retellings. May be repeated under different topics.</p>			<p>This course is designed to provide the student with a practical understanding of the planning and strategy necessary to develop an entrepreneurial/intrapreneurial plan. Due to the requirements of the course, students should gain a practical understanding of how to biblically confront frustration, fear, and failure as they develop their entrepreneurial/intrapreneurial plan. The course will culminate in the development and presentation of an entrepreneurial or intrapreneurial plan. Prerequisites: Admission to the Business Division, BUS-340 and senior standing.</p>		
ENG-481	English Capstone	3	ENT-483	Entrepreneurship Practicum	
<p>Leads English majors in a culminating experience of literary analysis. Through class discussion, reading, research, writing, and portfolio development, students will review explorations and connections made in their IWU coursework and then cast a vision for how they might implement what they have learned into constructive life skills.</p>			<p>An opportunity for advanced students to obtain valuable work experience and gain expertise in relating classroom material to actual business endeavor. A professional quality paper analyzing one or more business applications will be prepared under departmental faculty supervision.</p>		
ENG-499	English Honors		FIN-210	Managerial Finance	3
<p>An intensive, individually-designed independent study in language, literature, or writing. Prerequisite: Junior or senior standing with a 3.0 grade-point average. Permission of Division.</p>			<p>A study of the four functions of managerial finance: the capital budgeting decision process, capital structure decision process, evaluation and control of long-range financial decisions, and working capital management. The impact of these financial decisions on the firm's risk level is analyzed. Prerequisite: BUS-100 and ACC-201 or Admission to the CAPS BSA program.</p>		
ENS-231LT	Introduction to Environmental Science Lab	0	FIN-250	Personal and Family Finance	3
ENS-231T	Introduction to Environmental Science	4	<p>A general course dealing with the problems of the consumer in the American economic system; a practical study of personal consumption, buying habits, health and medical care, and housing; an introduction to investment; an introduction to insurance. No prerequisite.</p>		
ENT-340	Entrepreneurship & New Venture Creation	3			
<p>Development and management of an entrepreneurial organization including pre-startup, startup, survival, growth, and the transition from entrepreneurial to professional management. Explain the function of entrepreneurship and corporate intrapreneurship. Students will review the entrepreneurial revolution, developing creativity and innovation, nonprofit entrepreneurship and developing the entrepreneurial plan. Prerequisite: Admission to the Business Division.</p>					

FIN-330	Investments	3	FIN-450	Investment Services: Series 7	3
<p>A study of the investment alternatives available to individual and institutional investors. Emphasis is placed on stocks, bonds, mutual funds, and money market securities. The student's risk preferences and the risk level of investment alternatives are reanalyzed. Prerequisites: FIN-210 and Admission to the Business Division.</p>			<p>This course is designed to move beyond a basic understanding of investment vehicles and focuses on using these vehicles in the area of financial planning for the present as well as for the future. Retirement and estate planning, legal considerations of investment vehicles, and an in depth understanding of various investment classes are only a few of the topics considered. A student who successfully completes this class should be well prepared to take the Series 7 brokerage licensing examination. Prerequisites: FIN-330 and Admission to the Business Division.</p>		
FIN-383	Real Estate Investment and Marketing	3	FIN-474	Independent Learning in Finance	
<p>This course introduces students to the varied ownership and leasehold interests available in real estate. In addition, students are introduced to mechanisms which are used to handle the legal issues associated with real estate; methods for marketing real estate; approaches available for the financing of real estate; and the systems used for managing real estate assets. The keys to successful negotiation are integrated throughout the course. The emphasis is on residential real estate, but commercial real estate development is covered as well. Prerequisites: FIN-210 and Admission to the Business Division.</p>			<p>An opportunity for advanced students to pursue further study in a finance field of interest in which they have exhausted catalog offerings. Prerequisites: FIN-210 and Admission to the Business Division.</p>		
FIN-384	Finance Practicum		FIN-499	Finance Seminar - Presentation	1
<p>An opportunity for advanced students to obtain valuable work experience and gain expertise in relating classroom material to actual business endeavor. A professional-quality paper analyzing one or more business applications will be prepared under departmental faculty supervision. Prerequisites: FIN-210 and Admission to the Business Division.</p>			<p>A seminar course intended to develop the senior finance major's professional presentation skills as he/she prepares and delivers the results of the research in FIN-498 from the previous semester. Prerequisite: FIN-498.</p>		
FIN-399	Service Learning	3	FINA-180	Humanities Fine Arts	3
<p>Service-Learning is an educational experience in which students participate in organized service activities that meet identified community and/or university needs. Prerequisite: Admission to the Business Division</p>			<p>An integrated study of history and appreciation of art and music in Western culture from ancient times to present. (Part of the Humanities Core Curriculum.)</p>		
FIN-430	Investment Management	3	FINA-391	Directed Studies in Fine Arts	
<p>An examination of additional investment alternatives available to individual and institutional investors including options, futures, and convertible securities. Technical analysis and portfolio management theory are examined. Prerequisites: ACC-201, ACC-202, BUS-100, ECO-211, ECO-212, FIN-330, and the appropriate major area gateway course(s).</p>			<p>This course prepares students to perform basic research in which they learn to use Off Campus Library Services (OCLS), electronic periodical indexes, and information resources. Students will identify and select appropriate material for inclusion in a college level research project which will be submitted at the conclusion of the course.</p>		
FIN-440	Financial Management	3	FRE-115	Beginning French I	3
<p>An examination of capital budgeting under uncertainty, the capital asset pricing model, lease versus buy decisions, and mergers and acquisitions. The impact of these financial decisions on the firm's risk level is analyzed. Prerequisites: FIN-210 and Admission to the Business Division.</p>			<p>Designed to introduce the receptive and expressive skills in the use of the French language. All four language skills receive attention. Language laboratory required.</p>		
			FRE-116	Beginning French II	3
			<p>Designed to develop the receptive and expressive skills in the use of the French language. All four language skills receive attention. Language laboratory required. Prerequisite: FRE-115 or equivalent.</p>		
			FRE-235	Intermediate French I	3
			<p>A general review and continued development of the four language skills. Language laboratory required. Prerequisites: FRE-115 and FRE-116 or equivalent.</p>		

FRE-236	Intermediate French II	3	HBR-202	Beginning Hebrew II	3
Continued development of the four language skills through intermediate mastery. Language laboratory required. Prerequisites: FRE-115, FRE-116, and FRE-235 or equivalent.			A continuation of HBR-201, this course attempts to complete the student's knowledge of basic Hebrew grammar and vocabulary. At the end of the first year the student should be able to translate from the original text with some basic proficiency. Prerequisite: HBR-201.		
FRE-350	Advanced Topics in French		HBR-422	Hebrew Bible	3
Independent study or arranged focused exploration. Private lesson fee may be charged. May be repeated. Prerequisite: FRE-236 or equivalent.			A study of selected Old Testament passages in the original Hebrew. This course expands vocabulary and builds depth in one's understanding of Hebrew morphology, syntax, and semantics. Prerequisite: HBR-202 or permission of division. Can be repeated.		
GEO-201	Physical Geography	3	HBR-475	Independent Learning-Hebrew	
A basic study of the content and objectives of geography from a topical view. Includes a consideration of the basic elements of geography from the physical and cultural setting. Not open to the student who has credit in EAR-130.			Individually arranged reading, research, and issues relating to the Hebrew language. Prerequisite: HBR-201, HBR-202 or its equivalent.		
GEO-202	Political and Cultural Geography	3	HNR-100	Honors College Forum	
An historical, cultural, and regional approach to the study of contemporary world geography. A consideration of individual countries and their problems as related to their physical and cultural environments. Meets General Education Intercultural Experience requirement but does not meet General Education Social Science requirement. Gives credit for geography or for majors in Political Science or Public Policy.			This course exposes students to a broad range of cultural and intellectual experiences in order to enrich their liberal arts foundation and to help develop as Christian agents of discernment in our society and culture. The Honors College will assemble a diverse schedule of events each semester in the arts, humanities, social sciences, natural sciences, and religion. Students will be challenged to reflect critically on the meaning and significance of such events within our contemporary social and cultural contexts and in the light of the Christian faith. This course is limited to Honors College students and may be repeated up to 8 hours. Graded on a CR/NC basis.		
GRE-201	Beginning Greek I	3	HNR-210	Honors Colloquia	
This course presents an overview of the categories of Koine Greek syntax with an emphasis on translation. With the help of Greek tools, students will acquire the basic translation skills needed to read the Greek New Testament.			The purpose of this course is to provide a seminar setting in which narrowly defined topics may be subjected to an in-depth and interdisciplinary examination. The course, which will typically be co-taught by faculty from different fields of study, will challenge students to analyze various ideas and issues in a creative and methodological manner, with special attention being given to the broader contexts (historical, social, scientific, etc) within which such subjects must be understood and to the consideration of how a Christian worldview might inform one's perspectives and conclusions.		
GRE-202	Beginning Greek II	3	HNR-215	News and Views Through the Eyes of Faith	1
A continuation of GRE-201, this course assumes knowledge of basic Greek syntax and completes the student's knowledge of Greek forms and basic vocabulary, diminishing the need for auxiliary aids in translation. Prerequisite: GRE-201.			The purpose of this course is to help students cultivate a deeper understanding of various current events and issues that shape our world. In particular, students will be challenged to consider the meaning and significance of such matters in the light of the Christian faith. Typically, the course will focus on a particular contemporary issue or theme prominent in the news.		
GRE-422	Greek Bible	3			
A study of selected New Testament passages in the original Greek. This course expands vocabulary and builds depth in one's understanding of Greek morphology, syntax, and semantics. Prerequisite: Beginning Greek competence or permission of department. Can be repeated.					
HBR-201	Beginning Hebrew I	3			
An introduction to biblical Hebrew designed to give the student sufficient knowledge of the grammar and tools available to be able to do basic study of the Hebrew Bible in the original language.					

HNR-225 Liberal Learning Tutorial 1

This course provides opportunities for Honors College students to grow as Christian liberal learners. Through various readings, discussions, written work, and personal assessments, students are challenged to deepen their understanding of the nature and purpose of a Christian liberal education, equipped to draw their general education and academic majors into formative dialogue with the Christian theological narrative, and taught to pursue an integrative life of learning, spirituality, and service within the context of a holistic Kingdom-of-God vocation. Students integrate the coursework from these tutorials into a Liberal Learning & Life Calling Portfolio (LLC) that consolidates and documents their growth in the Honors College learning outcomes. This Portfolio culminates in a LLC capstone course in which Seniors synthesize the fruits of their liberal education and cast a personal vision for the lifelong pursuit of intellectual and spiritual growth. This course is limited to Honors College students and may be repeated up to 6 hours.

HNR-310 Honors Colloquia

The purpose of this course is to provide a seminar setting in which narrowly defined topics may be subjected to an in-depth and interdisciplinary examination. The course, which will typically be co-taught by faculty from different fields of study, will challenge students to analyze various ideas and issues in a creative and methodological manner, with special attention being given to the broader contexts (historical, social, scientific, etc) within which such subjects must be understood and to the consideration of how a Christian worldview might inform one's perspectives and conclusions.

HNR-320 Topics in Christian Scholarship 3

The purpose of this course is to explore the nature and meaning of Christian scholarship. This will be accomplished in one of two ways: either through the study of thinkers, movements, and/or themes which provide notable and creative models for the integration of faith and reason, or by reflecting critically on contemporary efforts to analyze modern learning and ideas from a biblical perspective. Possible topics may include Augustine's "City of God", the works of Martin Luther, Jonathan Edwards, John Henry Newman or C.S. Lewis; Christian scholarship in the Reformation era; an evaluative survey of Christian Feminism, liberation theology, or Christian approaches to behavioral science. This course may be repeated. Prerequisite: UNV-180.

HNR-325 Honors Research Tutorial 3

This course will acquaint students with the nature, roles, and value of humanities/social science research. In small groups, students will explore a specialized topic from the humanities/social sciences by engaging in collaborative research project with an instructor that will culminate in publishable scholarly work(s). This inquiry-based approach to learning should yield a critical appreciation for the humanities and social sciences that helps students to recognize the relevance of such disciplines to their daily lives. The course will also challenge students to cultivate intellectual skills that are essential to the profitable pursuit of a liberal education: e.g., analytical thinking, critical and reflective reading, well-expressed writing, and articulate oral communication.

HNR-350 Honors Research Seminar 3

The purpose of this course is to prepare John Wesley Scholars to undertake an Honors Scholarship Project. Students will cultivate preliminary research skills and methods, sharpen their proficiency in critical analysis, reflect critically on the meaning of Christian scholarship within their chosen discipline(s), and receive guidance in the preparation of their Honors Scholarship Project proposal. After a series of introductory readings and class discussions, students will explore potential avenues of research and/or creativity that might prove fruitful for their Honors Project. Each student's work will culminate in a preliminary Project proposal that has passed through a collaborative process of assessment within the seminar and has been reviewed by a faculty member from the student's area of study.

HNR-399H Honors College Thesis/Project 3

HNR-410 Honors Colloquia

The purpose of this course is to provide a seminar setting in which narrowly defined topics may be subjected to an in-depth and interdisciplinary examination. The course, which will typically be co-taught by faculty from different fields of study, will challenge students to analyze various ideas and issues in a creative and methodological manner, with special attention being given to the broader contexts (historical, social, scientific, etc) within which such subjects must be understood and to the consideration of how a Christian worldview might inform one's perspectives and conclusions.

HNR-497 Honors Scholarship Project I

As the first part of the Honors Scholarship Project, the aim of this independent learning experience is to refine the subject of the Honors Project and begin the formal process of research and/or creative endeavor. Working under the guidance of a faculty mentor, the student establishes a detailed plan of scholarship and begins to pursue it. In addition to regular meetings with the faculty mentor during the semester, the student must submit midterm and final progress reports to the Honors College Director. Prerequisite: HNR-350.

<p>HNR-498 Honors Scholarship Project II</p> <p>The aim of this independent learning experience is to complete the process of research and/or creative endeavor begun in HNR-498. Working under the guidance of a faculty mentor, the student's work should culminate in a scholarship project that demonstrates rigor and creativity in the field of study. The final Honors Scholarship Project must collectively represent at least 3 hours of work. Prerequisites: HNR-350 and HNR-497.</p>	<p>HST-185 Foundations of Civilization to 1648 3</p> <p>This course is an introduction to the foundations of civilization from the dawn of human history to the beginning of the Modern era, focusing on the religious, political, social, intellectual, and cultural attributes emphasizing the origins, rise and interactions of Western Civilization. (History majors take HST-185 and HST-190, The West and the World after 1648 in place of HST-180.) No Prerequisite. Not open to students with credit in HST-201.</p>
<p>HNR-499 Honors Scholarship Presentation</p> <p>After completing their Honors Scholarship projects, John Wesley Scholars are required to share the fruits of their scholarship in an on-campus public forum appropriate to their discipline. Through their engagement of a public audience, students should demonstrate both the merits of their Honors Project and a good capacity for addressing feedback about the development and outcomes of their scholarship. Students will also be encouraged to share their work at regional and national conferences and to revise their project for submission to journals of undergraduate scholarship in their disciplines. Prerequisites: HNR-497 and HNR-498.</p>	<p>HST-190 The West and the World After 1648 3</p> <p>This course examines the development of Western Civilization from 1648 to the present, with an emphasis on the religious, political, social, intellectual, and cultural elements, as well as the encountering of non-Western peoples, cultures and civilizations. Not open to students with credit in HST-202.</p>
<p>HST-101 American Civilization to 1865 3</p> <p>A survey of the intellectual, political, economic, social, aesthetic, legal, ecclesiastical, and international political patterns of American civilization from the expansion of Europe through the American Civil War. Not open to students with credit in HST-211.</p>	<p>HST-201 World Civilization to 1500 3</p> <p>An intellectual, institutional, and cultural consideration, of world civilizations and their development, interaction, and significance to 1500. Combined with HST-202, meets HST-180 Humanities requirement. (History majors take HST-201 and HST-202 in place of HST-180.) Not open to students with credit in HST-185.</p>
<p>HST-102 American Civilization After 1865 3</p> <p>A survey of the intellectual, political, economic, social, aesthetic, legal, ecclesiastical, and international political patterns of American civilization from the Civil War to the present. Not open to students with credit in HST-212.</p>	<p>HST-202 World Civilization After 1500 3</p> <p>An intellectual, institutional, and cultural consideration of world civilizations and their development, interaction, and significance after 1500. Combined with HST-201, meets HST-180 Humanities requirement. (History majors take HST-201 and HST-202 in place of HST-180.) Not open to students with credit in HST-109.</p>
<p>HST-103 Recent History and Politics 3</p> <p>A penetrating study of intellectual, political, economic, social, legal, aesthetic, ecclesiastical, and international political developments from 1920 to the present with emphasis on America's role in the world. Gives credit for History or Political Science majors.</p>	<p>HST-211 American Civilization to 1865 3</p> <p>A survey of the intellectual, political, economic, social, aesthetic, legal, ecclesiastical, and international political patterns of American civilization from the expansion of Europe through the American Civil War. Not open to students with credit in HST-101.</p>
<p>HST-160 Western Civilization 3</p> <p>This survey course covers foundational cultures of Western Civilization from its beginnings in the Mesopotamian Valley through the modern era. Particular emphasis is given to major economic, political, social, and religious institutions that have fashioned the history of the Western experience.</p>	<p>HST-212 American Civilization After 1865 3</p> <p>A survey of the intellectual, political, economic, social, aesthetic, legal, ecclesiastical, and international political patterns of American civilization from the Civil War to the present. Not open to students with credit in HST-190.</p>
<p>HST-180 Humanities World Civilization 3</p> <p>An intellectual, institutional, and cultural consideration of world civilizations and their development, interaction, and significance. (History majors take HST-185 and HST-190 in place of HST-180. Any student may take HST-185 and HST-190 in place of the HST-180 general education requirement.)</p>	<p>HST-220 Topics in History 3</p> <p>This course is designed to guide students in the exploration of a topic in the field of history. The specific subject of study may change from session to session, but will be a focused look at a movement, event or era, or field within history.</p>
<p>HST-230 Colonial Latin America 3</p> <p>A survey of the political, social, cultural and religious history of Latin America from the eve of European encounter to the eve of independence.</p>	

HST-231	National Latin America	3	HST-302	American Political Parties	3
<p>A survey of the political, social, cultural and religious history of Latin America from the eve of Independence to the recent past.</p>			<p>An analysis of the nature, history, and function of political parties and pressure groups in the United States. Gives credit for Political Science, Political Science Pre-Law, International Relations, or History majors. Prerequisite: HST-211, HST-212, or POL-100.</p>		
HST-250	Contemporary Affairs	1	HST-312	Medieval Civilization	3
<p>An intensive analysis of communications and the news media from a historical perspective with a focus on television network news. A penetrating study of the structure, power, and bias of the television news industry and how it affects contemporary life and affairs. Gives credit for majors in History or Political Science.</p>			<p>This course analyzes the political, social, intellectual and religious components of Europe in the Middle Ages, covering the period from the Fall of Rome in the West to the eve of the Reformation. Prerequisite: HST-180 or HST-185.</p>		
HST-261	Contemporary Modern Problems		HST-320	American Economic History	3
<p>A penetrating interdisciplinary analysis of the rise and decline of Western thought and culture. Features a sequential viewing of the widely acclaimed Francis Schaeffer film series "How Should We Then Live?" with informative and stimulating discussion following the viewing of each film.</p>			<p>A survey of American economic developments, including business and the American economy. Gives credit for History or Economics majors. Prerequisite: HST-211 or HST-212, and ECO-211 or ECO-212.</p>		
HST-290	Making History: Historians, Historical Techniques and Historiography	3	HST-321	History of the Muslim-Christian Encounter	3
<p>This course is an introduction to the philosophies of history and the techniques of historical inquiry and research and writing. Prerequisites: Students must have basic writing skills, and general survey knowledge. The student should have passed both HST-185 Foundations of Civilization to 1648 and HST-190 The West and World after 1648. If only one has been taken, enrollment in the other concurrent with HST-290 is acceptable with permission of the division. Gives credit toward majors in history and public policy.</p>			<p>This course will examine various points of interaction between the Muslim and Christian faiths from the origins of Islam (in the Seventh Century) to the present day. Special emphasis will be placed on elucidating the complex theological, cultural, and political factors that have shaped the relationship between these two religions. The course will provide an introduction to the origins and basic tenets of Islam and opportunities to interact with various contemporary expressions of the Muslim faith. Prerequisite: HST-180, HST-185 or HST-190.</p>		
HST-295	American Portraits		HST-341	History of England to 1688	3
<p>Autobiographical and biographical studies of the life and times of American leaders. Prerequisite: Any course from HST-211, HST-212, HST-103, or POL-100.</p>			<p>This course is a survey of English history from Celtic and Roman times to 1688, emphasizing religious, political, social, and cultural developments between the Anglo-Saxon period and the Glorious Revolution. Prerequisite: HST-180 or HST-185. Not open to students with credit in HST-360.</p>		
HST-300	Western/American Intellectual And Social History	3	HST-342	History of England 1688 - Present	3
<p>A survey of the history of presuppositions, ideas, and values occurring in philosophy, religion, science, aesthetics, education, economics, law, and politics and their relationship to the total culture, with particular attention to successive paradigms and the consequences thereof. Gives credit for majors in History, Philosophy, Political Science, Political Science Pre-Law or Sociology. Prerequisite: Any course from HST-180, HST-211, HST-212, HST-103, HST-185, HST-190, HST-160, or POL-100.</p>			<p>This course is a survey of English history from 1688 to the present. It will emphasize religious, political, social, and cultural developments between the Glorious Revolution and the present. Prerequisite: HST-180 or HST-190.</p>		
HST-301	American Foreign Relations	3	HST-355	Modern Mexico	3
<p>A history of international politics from 1415 to the present, focusing on an analysis of the foreign relations of the United States from the American Revolution to the present. Gives credit for majors in Political Science, International Relations, or History. Prerequisite: HST-211, HST-212, or POL-100.</p>			<p>A history of greater Mexico from Independence to the recent past. Prerequisite: HST-180 or permission of the Division of Social Sciences.</p>		
			HST-360	History of England	3
			<p>A history of the British Isles from their earliest time to the present, emphasizing the Reformation period. Prerequisite: HST-180 or HST-185 and HST-190.</p>		

HST-361	History of Russia and Eastern Europe	3	HST-400	American Constitutional History	3
<p>A study of Russia from its beginnings to the present, emphasizing its Eurasian cultural development and the rise, expansion, and dissolution of Soviet Communism. Includes a survey of Eastern European developments from the beginning of modern Europe to the present. Prerequisite: HST-180 or HST-185 and HST-190.</p>			<p>A study of the origin and development of the United States Constitution with emphasis on leading Supreme Court decisions. Gives credit for History, Political Science Pre-Law, or Political Science majors. Prerequisites: HST-211 and HST-212 or POL-100.</p>		
HST-370	International Cultural Studies	3	HST-442	World War II	3
<p>Travel experience to nations outside the United States designed to enable students to gain a greater understanding for and appreciation of other cultures. Extra fee: air travel, lodging, meals, and miscellaneous. Gives credit for geography or for majors in History or Political Science. Prerequisite: Consent of the department.</p>			<p>A specialized study of World War II within the context of world history. It emphasizes the fracturing of the world order with the rise of Japanese, German, and Italian imperialism. It also gives an overview of the military strategies and conduct of the war in the major theaters of operations, as well as the impact of "total war" on the civilian populations of the various home fronts, with a special focus on the Nazi Holocaust. Prerequisite: HST-180, HST-212 or HST-190.</p>		
HST-380	History of Middle East and Africa	3	HST-450	History and Social Science Seminar	3
<p>A study of the Middle East from ancient times to the present including a survey of eastern Mediterranean, African, and Near Eastern cultures. Emphasizes the ancient civilizations of Mesopotamia, Egypt, Palestine, the eastern Mediterranean, and analyzes the origins and developments of the contemporary Middle East conflict. Prerequisite: HST-180 or HST-185 and HST-190.</p>			<p>A survey of historical writing and philosophies of history. Practice in the methodology of research and writing. Required of all History majors. Prerequisite: Upper-division status.</p>		
HST-381	History of East Asia	3	HST-450H	History and Social Science Seminar - Honors College Thesis	3
<p>A study of Asian nations, emphasizing China and Japan, including India and Pakistan, from earliest beginnings to the present. Particular stress is placed on the nineteenth and twentieth centuries, including the history of communism in Asia and the growing contemporary significance of East Asia. Prerequisite: HST-180 or HST-185 and HST-190.</p>			<p>Prerequisites: Junior or senior standing with 3.0 GPA and consent of the department.</p>		
HST-391	Directed Studies in Social Studies Es		HST-499	History Honors	3
<p>This course prepares students to perform basic research in which they learn to use Off Campus Library Services (OCLS), electronic periodical indexes, and information resources. Students will identify and select appropriate material for inclusion in a college level research project which will be submitted at the conclusion of the course. (1 or 2 credit hours)</p>			<p>Prerequisites: Junior or senior standing with 3.0 GPA and consent of the department.</p>		
HST-395	Renaissance and Reformation	3	ICD-210	Introduction to Development Theory	3
<p>A specialized study of the intellectual, cultural, and religious life of Europe in the fourteenth, fifteenth, and sixteenth centuries. Prerequisite: HST-180 or HST-185 and HST-190.</p>			<p>This course will explore the primary theories and practices in social and economic development of communities on a local and global scale. The course takes its basic approach to the subject from a consideration of the role of culture in economic development and social change. The course will include an overview of the history and impact of globalization, the impact of global population growth and migration patterns, and the growth and impact of transnational corporations on societies. Finally in this course students will receive an introduction to the major multinational bodies such as The World Bank, International Monetary Fund, World Trade Organization, and World Health Organization, as well as the development activities of governmental and non-governmental agencies.</p>		
HST-399H	Honors College Thesis - History	3			
<p>Students will work under a faculty mentor in their major and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>					

ICD-229 Essentials of Non-Profit Management 3

This course introduces the student to the spectrum of management issues in which leaders of non-profit organizations must be involved giving attention to the special nature of non-profit enterprises. The course will introduce students to essential management areas such as the legal framework for non-profit organizations, organizational governance, the role of the chief executive officer, strategic planning, finance, and human resource development. In addition students will be introduced to the fundamental principles of organizational effectiveness and capacity building. Finally the course will provide an opportunity to examine the contributions of the non-profit sector in the broader social and economic environment.

ICD-260 Urban Ministries 3

This course seeks to expose students to urban ministries by allowing them to spend one week, under supervision, learning, ministering and serving in a major city in the United States. Prior to the urban ministry experience, through classroom lectures and exercises, students will learn about urban issues and challenges along with the role of the Church as agent of hope and wholeness in the urban environment. Students will also learn the techniques and strategies employed by various church-based community organizations in the urban context in preparation for their on-site observation, and supervised participation. Meets General Education intercultural requirement.

ICD-325 Urban and Rural Development Practice 3

This course seeks to provide students with practical insights into areas of urban and rural development practice. It approaches development from a decidedly transformational and Christian perspective. Allowing flexibility for either an urban or rural slant, it attempts to place holistic development practices squarely within the context of the relationship between churches/church organizations and the world in which they are called to serve. Pre-requisite: ICD-210.

ICD-350 Transformational Development Principles 3

This course covers the key principles and processes of transformational development rooted in the tradition and values of self-determination, empowerment, and social justice. The course focuses on direct practice and advocacy for the socially and economically disempowered groups in the society and on bringing the church and the community together to address the problematic social conditions. It is designed to build the students' analytical, political and interactional skills necessary to mobilize the community for collective action and social justice.

ICD-360 Development Internship

The student will be involved in a significant development experience under the supervision of a development practitioner. The internship setting must be in an international development agency or in an urban/rural development organization outside of North America. Direct exposure involving observation and practical development service will be required. The internship must be a minimum of four weeks. Prerequisites: ICD-210, ICD-325 and INT-220.

ICD-450 Community Development 3
Workshop/Practicum

This is an upper level course that allows ICD students to harness the knowledge and skills they have acquired from the program to effectively identify, analyze and resolve local community development issues. Students participate in hands-on community-based research and problem-solving activities, and thus prepare them to work with the community, identify local needs, leverage community assets, and devise strategies to mitigate community challenges. Pre-requisites: ICD-210, ICD-325, ICD-350, MAT-112 and PSY-355 or POL-322.

ICD-480 Development Capstone 1

This course provides a capstone for the International and Community Development major and is designed to help the students to reflect on learning exercises throughout their coursework and development internships. Various experiences and readings will be used to help the students to integrate wide range of development concepts learned throughout the major. Students will be required to present their internship papers and written development concept papers to the class for constructive criticism from their peers and the faculty to enable them to sharpen their ideas and career path in International and Community Development.

INR-332 Conflict Processes 3

The purpose of this course is to cover a variety of theoretical and ethical approaches to the problem of understanding international conflict. Strong emphasis will be placed on the evaluation of the empirical literature attempting to explain the causes of war and peace. Historical continuity and change in international conflict will be examined via the analysis of a variety of case studies of global, regional and intrastate war. By combining a theoretically sophisticated understanding of the causes, results, and resolution of conflict, coupled with concerns about the moral justification of war, students will emerge prepared to formulate thoughtful, concrete opinions on issues of global conflict. Prerequisite: POL-230.

<p>INR-375 Foreign Policy Analysis 3</p> <p>This course examines the way international actors make decisions regarding how they will interact with other members of the international community. Students will be introduced to the variety of ways in which the foreign policy making processes within and across countries operate and can be explained. A number of influences on foreign policy are discussed, including individual policy makers, characteristics of the domestic political environment, and international systemic factors. The course surveys these influences, concepts and theoretical approaches in preparation for the in-depth and hands-on analysis students will undertake in the later part of the semester. Prerequisites: POL-230 and POL-232.</p>	<p>INT-220 Intercultural Relationships 3</p> <p>This course examines the theology of diversity, and specific ways that Christians deal with cultural differences. We develop strategies for effectively relating to people in cultural settings other than our own and working in the church to minister to various people groups in our society. Meets General Education intercultural requirement.</p>
<p>INR-432 Global Governance 3</p> <p>This course is an advanced survey of the norms, institutions and processes increasingly constituting some type of governance at the global level. Students will be acquainted with the knowledge and analytical tools needed to cope with an increasingly complex and interconnected global system. Towards this end, the course introduces the key dimensions, actors and nature of global governance; identifying the most significant concepts and theoretical approaches to understanding global rule. The course also addresses the various debates about global governance and explanations for the increasing demands in global governance structures. Prerequisites: POL-230 and POL-232.</p>	<p>INT-222 Short-Term Missions (leadership) 2</p> <p>Offers guidelines to local church leaders on how to promote short-term mission trips, how to prepare parishioners for cross-cultural experiences, and how to debrief participants in such activities. Prerequisite or co-requisite: INT-122.</p>
<p>INR-470 International Relations Capstone 3</p> <p>This is an advanced seminar in the methodological study of political phenomenon. Students will enhance their research, analysis and critical thinking skills through practical experience in the process of scholarship. As a capstone experience students will plan, research and write a scholarly research piece addressing an empirical puzzle relevant to their interests. The course is highly recommended for students pursuing graduate education. Prerequisite: Upper-division Status.</p>	<p>INT-240 Urban Anthropology 3</p> <p>This course will examine urban life in a variety of historical and cultural contexts. Particular attention will be directed to the process of urbanization and to the political economy of the growth of cities; the impact of urbanization on rural cultures; race, class and ethnic relations in urban areas; and social use of urban space.</p>
<p>INT-122 Short-Term Missions (orientation) 1</p> <p>This course will acquaint students with the theoretical purpose of short-term missions, the challenges of such brief cross-cultural experiences, and effective methods to help those who enter a new culture. It is recommended for all students who anticipate participation in a short-term mission trip during their undergraduate experience. Meets General Education intercultural requirement when taken in combination with INT-222.</p>	<p>INT-262 Issues in Urban Ministry 3</p> <p>Students will learn the basic knowledge of a variety of urban church planting methodologies. They will gain appropriate church growth principles; a knowledge of the urban church planting process from beginning to end, and a knowledge of how to build competent urban leaders in the new urban church plant.</p>
<p>INT-124 Cross Cultural Exposure Trip 2</p> <p>For students who will be entering into another cultural setting for at least one week, whereby they will seek to understand what is involved in cross-cultural ministries, how to be cross-culturally sensitive, and how to enter the new culture in the position of being a learner, "storyteller," and servant. Prerequisite: INT-122.</p>	<p>INT-266 Social Ministry in Urban Setting 3</p> <p>This course is an evangelical examination of the questions of paradox, personhood, poverty, suffering and human rights as they relate to the urban context. Students will also engage in discussions and study regarding issues relating to civil, political, economic, social and cultural rights and how churches in an urban context should respond to them.</p>
	<p>INT-266P Social Ministries in Urban Settings Practicum 1</p> <p>Each student will be involved in a formal practical placement in an urban social ministry setting. This placement must provide the student with a laboratory for the application of the theology an practice of urban social ministry as taught in the co-requisite course. Co-requisite: INT-266.</p>
	<p>INT-310 The Role of Women in Missions 3</p> <p>A study of ministry to and by women, including biblical foundations for roles of female missionaries in the home, church, society, and principles for evangelizing, discipling, and counseling women of other cultures.</p>

INT-315 Cross-Cultural Communication of Faith 3

This course explores the fields of theologizing and communication from a cross-cultural perspective. The student should learn how to think theologically and then communicate that into a new cultural context. Significant time will be spent observing and interacting with those from a different culture. Prerequisite: SOC-225,THE-232.

INT-322 Intercultural Internship

The student will be involved in a significant cross-cultural experience under the supervision of a professional in the student's area of academic interest. Settings may be either overseas or among a minority ethnic group in North America. Direct exposure involving observation and practical service that relates to classroom instruction will be required. 1-4 week experience: 3 hours; 5-8 week experience: 6 hours; 9-14 week experience: 9 hours. Open to juniors and seniors. Prerequisites: INT-122 and one other intercultural studies course.

INT-323 Urban Ministries Internship

This course is to be taken on site at an urban ministries center. The student will be provided a foundation for understanding urban cultures, systems, and people through an individually tailored internship and course of study. 1-4 week experience: 3 hours; 5-8 week experience: 6 hours; 9-14 week experience: 9 hours. Open to juniors and seniors. Prerequisite: ICD-260.

INT-350 Transformational Development Principles 3

This course covers the key principles and processes of transformational development rooted in the tradition and values of self-determination, empowerment, and social justice. The course focuses on direct practice and advocacy for the socially and economically disempowered groups in the society and on bringing the church and the community together to address the problematic social conditions. It is designed to build the students' analytical, political and interactional skills necessary to mobilize the community for collective action and social justice.

INT-380 History of Missions and Contextualization 3

This course will study the history of the missionary enterprise and how the concepts of indigenization and contextualization affected the spread of Christianity. This course will also deal with the concerns which arise when any culture seeks to transpose the Christian faith into another culture using the conventional means of language, leadership, and institutions. Students will be encouraged to identify the transient and the permanent features of theological beliefs. Prerequisites: REL-275 and INT-122.

INT-399H Honors Thesis/Project 3

Students will work under a faculty mentor in their major and in cooperation with an Honors College advisor, producing a research thesis or creative project.

INT-402 Contemporary Global Issues 3

This course is designed to acquaint students with recurring social, political, and religious issues that individuals encounter in cross-cultural settings. Concerns arising out of current events and the personal experiences of the students may also be topics of discussion.

INT-410 Islam: Understanding and Dialogue 3

This course is designed to develop a basic understanding of Islam. Some attention will be given to its birth and development, the variety of expressions found today around the world and the implications these things hold for Christian witness. We will look at the facts of Islam, the text, the anthropological and sociological make up of the faith and its people in a variety of cultural settings. Strategies for engaging in meaningful dialogue and effective Christian witness will be explored. Not open to students with credit in HST-321. Prerequisites: PHL-180, ENG-180, HST-180, UNV-180, BIL-101, and BIL-102.

INT-480 Intercultural Capstone 1

This seminar will provide a forum for the interdisciplinary integration of students' course work and for the integration of students' academic, personal, and ministry development. Studies in the cultural and religious backgrounds, historical development, and present situation in a country of the student's selection are also discussed in relation to how they affect the preaching of the Gospel and the development of the church. Restricted to seniors with a major or minor in Intercultural Studies.

LANG-215 Beginning Mandarin Chinese I 3

Includes learning basic vocabulary and expressions in the Mandarin-Chinese language. Meets the General Education intercultural competency provided it is passed by a grade of "C" or above.

LANG-216 Beginning Mandarin Chinese II 3

Continues to build knowledge of the Chinese language in pronunciation, speaking, reading, writing, and grammar. Also include instruction and experience in Chinese culture and social customs. Will enable students to communicate with Chinese people and to have a foundation for higher level Chinese language study. Prerequisite: LANG-215 or equivalent.

LAT-201 Beginning Latin I 3

An introduction to the basic forms, syntax, and vocabulary of Latin.

LAT-202 Beginning Latin II 3

A continuation of LAT-201, this course prepares the student for the translation of Latin literature. Prerequisite: LAT-201.

LAT-320 Intermediate Latin I 3

This course continues the student's knowledge of Latin grammar and vocabulary by reading texts from authors such as Livy, Cicero, and Catullus. Prerequisite: LAT-202.

LAT-321 Intermediate Latin II 3

A continuation of LAT-320, this course largely consists of readings from more advanced Latin authors such as Virgil and Tacitus. Prerequisite: LAT-320.

LDR-120 Exploration of Life Purpose and Individual Uniqueness 1

This course will lead students to develop an understanding of their unique design as a key to discovering their life purpose and calling. Students will then explore how to work with this uniqueness in maximizing their college experience and life beyond college. A major focus of this course concentrates on the discovery of one's God-given strengths, passions and life experiences as a basis for this calling. Students are then led to understand how education, work, and other relationships in life are best understood and developed from this life calling perspective. Cannot take if earned credit in LDR-150.

LDR-150 Introduction to Life Calling 3

This course focuses on students developing an understanding of the concept of life calling and the discovery of one's God-given design as a basis for this calling. Students then are led to understand how work and individual leadership is best understood from the life calling perspective. Students will evaluate values, spiritual gifts, interests, abilities, personality traits, and experience. Students will combine each component in an in-depth self-assessment paper, and will integrate this into a life and leadership plan.

LDR-200 The Servant Leader: Foundations Of Leadership 3

This course presents the paradigm of servant leadership within a study of the historical and theoretical models of leadership. Leadership will be defined and the Servant Leadership Model presented and contrasted to traditional views.

LDR-210 Introduction to Leadership Development

Provides an introduction to student development theory and practice and how residence hall living impacts college students. The course concentrates on developing self-awareness, interpersonal skills, and leadership skills that are needed and useful to residence life. Emphasis is given to integrating current trends and theories of student development with residence life on a Christian university campus. The course is open to all students but is offered mainly to students anticipating working as a resident assistant.

LDR-225 Student Leadership Practicum

This course is designed for those who are in student leadership positions. It is an applied course that relates servant leadership theory directly to various student leadership roles. An emphasis will be placed on developing and implementing program plans, dealing effectively with student conflict and learning to appreciate the field of student development leadership.

LDR-235 High Adventure Leadership Experience 1

This course involves high adventure experiential learning (backpacking, canoeing, rappelling) with a focus on developing leaders through mentoring, self-discovery and personal challenge.

LDR-245 Peer Leader Practicum 1

LDR-255 Honors Leadership Practicum

This course introduces students to servant-leadership concepts and facilitates the practical application of such concepts to student leadership roles within the Honors College. The course is restricted to students currently serving in a leadership capacity within the Honors College. The course will challenge students to develop as reflective servant leaders and assist students in the assessment of their leadership style and effectiveness. This course may be used to meet Leadership electives in the Leadership Major.

LDR-265 International Servant Leadership Experience

This course provides an experiential learning process that introduces leadership concepts and development based on a servant-leadership paradigm. Students will utilize a learning cycle to combine concrete experiences with reflective observation, abstract conceptualization and active experimentation as a way of developing as leaders. This course is conducted in an international setting. Prerequisites: INT-122 or equivalent and the consent of the Leadership Center.

LDR-300 The Relational Leader (the Leader and Others) 3

This course explores the leader's key relationships with a focus on learning to value and develop others. Students will learn to value people by serving others first, trusting others and listening receptively. They will learn to develop people by providing for learning, modeling behavior and encouraging. This course explores the leader's relationship to, and view of, those led. Prerequisite: LDR-200.

LDR-310	Lifeskills, Career and Leadership	3	<p>This course helps prepare upper division students of any major to transition into the workforce following graduation. The course focuses on preparing for a life of leadership after college by understanding how to develop life skills that will allow them to integrate their unique life calling into work environments and career interests. Four broad areas will be addressed: 1) Job Search, 2) Professional Development, 3) Personal Financial and Time Management, and 4) Lifelong Leadership and Learning. Students will prepare a personal portfolio and develop a strategic life and leadership plan.</p>	LDR-475	Leadership Project (leading for Community Improvement)	3	<p>In this course students will conduct an individual field project providing leadership to a community improvement project that they identify and implement through mobilizing others. Students will utilize the learning gained from the leadership major and put that learning into action in a true service-learning design. This course is available to students who are majoring in Leadership and have completed most, if not all, the other leadership courses.</p>
LDR-325	Leadership Internship		<p>This course provides a supervised practical leadership experience in a professional work environment. Students will provide leadership under the mentorship of a more experienced leader to develop and reinforce learning from the Leadership program. Prerequisites: LDR-200 and advisor approval.</p>	LDR-475H	Leadership Project (leading for Community Improvement) Honors	3	<p>In this course students will conduct an individual field project providing leadership to a community improvement project that they identify and implement through mobilizing others. Students will utilize the learning gained from the leadership major and put that learning into action in a true service-learning design. This course is available to students who are majoring in Leadership and have completed most, if not all, the other leadership courses.</p>
LDR-350	The Team Leader (the Leader and Bldg COMMUNITY)	3	<p>This course explores the leadership of teams. Students will learn how to build community among the people they lead by building relationships, working collaboratively and valuing differences. Students will also learn to view work and results from the perspective of partnership as opposed to competitive individualism. Students will learn to respect the unique contribution of diverse individuals who make up teams and organizations. Prerequisite: LDR-200.</p>	MAT-100	Analysis of Data & Research	3	<p>An introduction to basic statistical concepts and some of their social applications. Students will review ethical data collection, interpretation of data, the idea of causation and relationships amongst variables, the role of government statistics, and chance in everyday life. Students may not earn credit in both MAT-100 and MAT-112 or MAT-204.</p>
LDR-400	The Transforming Leader (the Leader and Change)	3	<p>This course focuses on the leader as a transforming agent of change. Students will learn to understand the dynamics of personal and organizational change and how to best serve others through the change process. This course explores various change models while focusing on the servant organizational culture as the best foundation for effective change. Prerequisite: LDR-200.</p>	MAT-100B	Statistics for Business Research and Data Analysis	3	<p>An introduction to basic statistical concepts and some of their business applications. Students will review ethical data collection, interpretation of data, the idea of causation and relationships amongst variables, the role of statistics in market research, and the application of government statistics to business.</p>
LDR-420	The Authentic Leader: the Leader And Self	3	<p>This course explores the leader's relationship to self and the unique demands of authenticity and character to leadership. Students will be guided to see that authentic leaders are open and accountable to others, are willing to learn from others and maintain the highest integrity and ethics. Prerequisite: LDR-200.</p>	MAT-101	Basic Mathematics	3	<p>A study of integrated arithmetic and elementary algebra plus applications in geometry. This course is intended for those students who need improvement in basic skills of mathematics and preparatory work before taking college mathematics courses. Topics include arithmetic operations with real numbers, ratios, percentages and proportions, factoring, rational expressions, and solving and graphing linear equations and inequalities. This course does not satisfy the mathematics competency requirement nor does it meet the General Education requirement. Only open to students whose scores are below Math SAT 460 or below ACT 19.</p>
LDR-450	Leadership Seminar (current Issues in Leadership)	3	<p>In this course students will be asked to focus on a particular field of leadership (political, organizational, community, educational, etc.) and interact together around current issues in that field with an emphasis on ethical issues and how to be a change agent within that leadership area. Prerequisite: LDR-200. This course is designed to be taken later in the program when most, if not all, leadership courses have been taken.</p>				

MAT-104	Sample Surveying	3	MAT-112	General Statistics	3
<p>A survey course in elementary survey sampling techniques that uses the survey questionnaire as the main focus of learning. This course will introduce the basic concepts and techniques of statistics while using practical lessons in survey design and development. Team work will be a significant part of the course along with using statistical computer software in conjunction with collection, summarization, analysis, and interpretation of real data. This course will meet General Education requirements. Prerequisite: Math SAT above 410 (Math ACT above 16) or a grade of "C" or above in MAT-101.</p>			<p>An introduction to elementary concepts in descriptive statistics and inferential statistics using applications from various disciplines and supplementing with statistical software. Topics include data collection and summarization, random variables and probability distributions, linear correlation and regression, confidence intervals, and hypothesis testing. Prerequisite: Math SAT above 460 (Math ACT above 18) or a grade of "C" or above in MAT-104.</p>		
MAT-107	College Mathematics	3	MAT-113	College Algebra	3
<p>A study of integrated mathematics including algebra, geometry and contemporary mathematical topics. This course is designed for those students who need review or strengthening of skills in intermediate-level mathematics and a broadening of their mathematics knowledge. Topics include networks and graphs, basic statistics, logic, computers and mathematics, linear programming, and geometrical symmetry and patterns. Application of these topics will be emphasized. This course will meet General Education requirements. Prerequisite: Math SAT above 410 (Math ACT above 16) or grade of "C" or above in MAT-101.</p>			<p>Topics to be covered include graphs of functions, equations, and inequalities involving rational functions, systems of linear equations, logarithmic and exponential functions, and the Binomial Theorem. Prerequisite: Successful completion of Mathematics Competency requirement or Math SAT above 460 (Math ACT above 18).</p>		
MAT-108	Modern Concepts of Mathematics	3	MAT-114	Trigonometry	3
<p>An introductory course for non-math majors, this course uses applications from the world today to combine critical thinking with mathematical skills. Quantitative problem solving techniques and decision-making methods are applied toward both personal and professional experiences in everyday living.</p>			<p>Topics to be covered include trigonometric functions, analytic trigonometry, polar coordinates, and conic sections. Prerequisite: MAT-113 or equivalent.</p>		
MAT-110	Business Mathematics	4	MAT-120	College Algebra/Trigonometry	4
<p>A study of the basic arithmetic and algebra used most commonly in general business operations.</p>			<p>A course intended to strengthen algebraic and trigonometric concepts and to prepare students for higher level college courses such as calculus. Topics to be covered include systems of equations, inequalities, functions and their graphs, trigonometric identities, analytic trigonometry and conic sections. Prerequisite: Equivalent of two years of high school algebra; Math SAT is required to be above 460 (Math ACT above 18).</p>		
MAT-111	Mathematics for Elementary Teachers	3	MAT-201	Orientation to Mathematics	2
<p>This course is a content-based course in mathematics for the prospective elementary school teacher that combines practical application of experiencing mathematics and innovative teaching methodology which involves critical thinking for problem solving. Topics covered reflect the NCTM standards for mathematics content at the elementary level. Introduction to the nature of axiomatic mathematical systems that integrates mathematics, culture and technology is emphasized early on in the course followed by areas in set theory, the real number system, geometry, and consumer mathematics. Only open to elementary education majors.</p>			<p>An introductory course for majors in mathematics or mathematics education. Open also to students interested in pursuing a minor in mathematics or those interested in mathematical career possibilities. Designed to raise the awareness of the mathematics discipline, acquaint students with a range of intellectual and professional activities within the mathematical science community, and provide career information.</p>		
			MAT-204	Applied Statistics I	3
			<p>Follows the topics of MAT-112 but uses a more investigative approach. This approach includes field experiments involving collection, organization, summarization, and software analysis of data. Primarily intended for students planning to work in disciplines involving statistical studies. Prerequisite: Math SAT above 460 (Math ACT above 18) or a grade of "C" or above in MAT-104. Students may not earn credit in more than one of MAT-100, MAT-112, or MAT-204.</p>		

MAT-223	Introduction to Mathematics Via Discrete Processes	3	An introductory mathematics course designed to raise awareness of the mathematics discipline and acquaint students with a range of intellectual and professional activities within the mathematical science community. The mathematical content of the course focuses on discrete processes. Topics include set theory, logic and proof, mathematical induction, combinatorics, and graph theory. Open to mathematics and mathematics education majors as well as others interested in mathematical career possibilities. Prerequisite: MAT-120 or equivalent.
MAT-253	Calculus I	4	An introduction to differential and integral calculus of a single variable using polynomial, logarithmic, exponential and trigonometric elementary functions. A study of the concepts of limit, continuity, derivative, and integral using interdisciplinary applications and computer software. Prerequisite: MAT-120 or equivalent or permission of the Division.
MAT-254	Calculus II	4	Differential and integral calculus with applications in area, volume, and surfaces. Additional topics of study include techniques of integration, parametric equations and polar coordinates, and infinite series representation of functions. Prerequisite: MAT-253 or equivalent.
MAT-255	Calculus III	4	A study of multivariable calculus including continuity and differentiability of functions of several variables, partial derivatives, extrema, multiple integrals, line integrals, surface integrals, and Stoke's Theorem. Prerequisite: MAT-254 or equivalent.
MAT-280	Linear Algebra	3	A study of the theory of significant algebraic structures and a careful development of some of their important properties. Topics include matrices, determinants, systems of linear equations, vector and inner product spaces, linear transformations, and eigenvalues and eigenvectors. Prerequisite: MAT-253.
MAT-304	Applied Statistics II	3	A continued study of inferential statistics and introduction of nonparametric statistics using applications from various disciplines and supplementing with statistical software. Topics include estimation and hypothesis testing using a variety of statistical tests from univariate and bivariate populations. Topics include regression, analysis of covariance, tests involving different distributions such as normal distribution, t-distribution, chi-square, and F-distribution. Prerequisite: Successful completion of MAT-204 or equivalent.
MAT-305	Statistics for Social Sciences	3	This is an upper-division course for the Social Sciences. Topics include measures of central tendency and dispersion and graphical representation of data. Other topics include inferential statistical theory and hypothesis testing for statistical significance. Bivariate and multivariate measure of statistical relationship include chi square, nominal and ordinal measures of association, correlation and regression, analysis of variance, and multiple correlation and regression techniques. Factor analysis and analysis of covariance are briefly introduced. Primarily for students concentrating in psychology, sociology, social work, criminal justice, or political science. Prerequisites: Math SATI 450 (SAT 410) or ACT 19 or MAT-112 or MAT-204.
MAT-322	Mathematical Modeling I	4	An introduction to the principles and process of mathematical modeling that includes model construction, analysis and research. Problem-solving techniques for finding solutions to open-ended scenarios are discussed, developed, and demonstrated by the students using the modeling process, interdisciplinary applications, and statistical techniques and software. This course integrates life-experiences with a laboratory approach and lends itself well to other disciplines such as business and environmental majors. Prerequisite: MAT-253 or equivalent or permission of the Division.
MAT-324	Mathematical Modeling II	4	The development and extension of the modeling process using higher level mathematical concepts in calculus and differential equations. Problem-solving techniques for finding solutions to open-ended scenarios are discussed, developed, and demonstrated by the students using the modeling process, and statistical computer software. Interdisciplinary applications beneficial to both mathematics and science majors. For some students, an opportunity to participate in COMAP contest. Prerequisite: MAT-254 or equivalent.
MAT-333	Modern Geometry	4	A critical study of the foundations of geometry in which Euclidean and non-Euclidean geometries are explored and compared. A sound logical basis is then built for Euclidean geometry within the framework of Hilbert's postulates. Prerequisite or co-requisite: MAT-254 or permission of the Division.
MAT-342	Number Theory	3	A study of the theory of numbers that includes concepts about the fundamental theorem of arithmetic, theory of prime numbers, Diophantine equations, congruencies, Euler's Theorem, and quadratic reciprocity. Prerequisite: MAT-254 and MAT-280.

<p>MAT-344 Modern Abstract Algebra 3</p> <p>A study of significant algebraic structures and a careful development of some of their important properties. Topics include congruence and modular arithmetic, rings, groups, and fields with excursions and applications in cryptography, algebra and geometry. Prerequisite: MAT-342.</p>	<p>MAT-373 Numerical Analysis 3</p> <p>Numerical methods of iterative and other algorithmic processes, solution of transcendental and polynomial equations, numerical integration, numerical differentiation, linear algebra, curve-fitting, and numerical solutions of differential equations. Prerequisites: MAT-254 and MAT-280.</p>
<p>MAT-353 Differential Equations 3</p> <p>Topics include solution to ordinary differential equations of first order, linear differential equations with constant coefficients, method of undetermined coefficients, method of variation of parameters, power series solutions, and application of Laplace transforms to differential equations. Prerequisites: MAT-254 and MAT-280.</p>	<p>MAT-391 Directed Studies in Math</p> <p>This course prepares students to perform basic research in which they learn to use Off Campus Library Services (OCLS), electronic periodical indexes, and information resources. Students will identify and select appropriate material for inclusion in a college level research project which will be submitted at the conclusion of the course. (1 or 2 credit hours)</p>
<p>MAT-354 Introduction to Operations Research 3</p> <p>An introduction to linear programming, integer programming, and dynamic programming. This course will be offered as needed. Prerequisite: MAT-280.</p>	<p>MAT-396 Advanced Studies in Mathematics</p> <p>A course in advanced topics of current interest in mathematics. Specific content varies term by term, but will be announced before registration begins for the semester of offering. Prerequisite: Permission of instructor.</p>
<p>MAT-363 Mathematical Statistics I 3</p> <p>An introduction to the theory of probability and statistics using basic concepts of probability and its laws, probability distributions for discrete and continuous random variables, mathematical expectation, and sampling theory. Multivariate probability distributions are examined, along with methods of distribution functions, transformations and moment-generating functions. Prerequisites: MAT-254 and MAT-322 or equivalent.</p>	<p>MAT-399H Honors College Thesis/Project 3</p> <p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>
<p>MAT-364 Mathematical Statistics II 3</p> <p>A continued study of the theory of probability and statistics covering sampling distributions, The Central Limit Theorem, methods of estimation, and hypothesis testing. Analysis of variance and chi-square will be derived theoretically and then applied to various designs of experiments. Prerequisite: MAT-363.</p>	<p>MAT-446 Advanced Calculus 3</p> <p>An advanced multivariate treatment of calculus for the mature student of mathematics. This course will present derivation of the properties of continuity, differentiation, integration and convergence using the fundamental concepts and theorems of analysis. Applications in differential geometry and vector calculus will build on previous calculus experience. Prerequisite: MAT-255 or MAT-353.</p>
<p>MAT-370 Statistical Research Design I 3</p> <p>An introduction to experimental design using statistical inference as the basis for applying statistical tests to various parameters. Design of experiments will include single factor experiments using analyses of variance, randomized block and Latin Square Designs. Factorial experiments will be explored in depth, and regression techniques will be extended to include multiple regression. Prerequisite: MAT-304.</p>	<p>MAT-455 Point Set Topology 3</p> <p>A study of metric spaces and general topological spaces. Continuity, connectedness, compactness, separation, completions, product spaces, and quotient spaces. Prerequisite: MAT-255.</p>
<p>MAT-371 Statistical Research Design II 3</p> <p>A continuation of experimental design reinforcing elementary models and including complex design methods. Topics will include fixed, random and mixed models, nested experiments, and covariance analysis. A survey of factorial experiments will include split-plot designs, confounding and replication. Prerequisite: MAT-370.</p>	<p>MAT-456 Elementary Real Analysis 3</p> <p>An in-depth study of the fundamental concepts of calculus. Topics covered include the real number system, limits, continuity, derivatives, and Riemann integrals. This course will be offered as needed. Prerequisite: MAT-255.</p>
	<p>MAT-457 Complex Variables 3</p> <p>An introduction to the theory of complex variables from an application point of view. Topics include complex numbers, conformal maps, analytic functions, and integration by residues. The course will be offered as needed. Prerequisite: MAT-255 or MAT-353.</p>

MAT-481	History & Foundations of Mathematics	3	MGT-421	Strategies in Marketing Management	3
<p>A classical historical approach to the study of the foundations of mathematics. Contributions of ancient cultures such as the Egyptians, Babylonians, Greeks, Chinese, Hindus and Arabs are considered, as well as the transmission of mathematics into Europe from antiquity through the twentieth century. A comprehensive overview of the various branches of mathematics, such as number theory, logic, geometry, analysis, probability, and statistics is given using concrete applications and high level abstract thinking. Prerequisite: MAT-342.</p>			<p>An integrated analysis of the role of marketing within an organization. An examination will be made of the factors affecting consumer behavior, the development of marketing strategies, and the cognition of marketing variables.</p>		
MAT-485	Mathematics Internship		MGT-425	Issues in Ethics	3
<p>A mathematical or statistical work experience with organizations within business and industry for mathematics majors who are at least junior status. Internships will be prearranged with the Mathematics Department Coordinator for placement and for determining number of credits to be given. Student requirements include a journal, final paper, and presentation at the end of the internship. Student and employer evaluations will be completed at the end of the assignment. Limit of 4 hours of credit may be applied to the mathematics major.</p>			<p>A study of representative ethical theories as they relate to various contemporary problems in management (business). Special consideration will be given to the application of Christian ethical principles to values clarification and decision-making in the business world.</p>		
MAT-490	Math Senior Seminar	2	MGT-432	Organizational Behavior	3
<p>A seminar designed to integrate mathematics and philosophy and how they relate to other disciplines. Special attention will be given to advanced topics in mathematics with emphasis on critical thinking and communicating and presenting these topics. The ways in which individual students will use mathematics and the world changing mission of the university in a career setting will also be explored. The Major Field Achievement Test in Mathematics will be administered as a part of this course. Required for mathematics and mathematics education majors. Prerequisite: Open only to senior mathematics and mathematics education majors.</p>			<p>A study of organizational theory and application. The managerial functions of planning, controlling, staffing, directing, and motivating are explored in the context of both individual and group behavior.</p>		
MGT-205	Professional Communication	3	MGT-435	Personnel Management	3
<p>The importance of professionalism in all types of communication will be stressed. In addition to speaking and writing skills, special emphasis will be placed on listening skills, interpersonal communication, and presentation skills.</p>			<p>The development of policies and techniques necessary to ensure effective management within complex organization. Civil Service regulations, unions in the public and private sectors, and organizational training and development will be examined.</p>		
MGT-302	Management and Leadership	3	MGT-440	Management of Employee Relations In a Service Environment	3
<p>A study of the techniques of management and leadership and their application to the development of improved managerial effectiveness.</p>			<p>This course explores managerial decision-making and action as these concepts apply to labor-management relations in a service environment. The course will provide hands-on exploration of time, information, and power as they affect positive win-win results through creative problem-solving processes.</p>		
MGT-412	Financial Planning and Control Systems	3	MGT-441	Philosophy of Corporate Culture	3
<p>The analysis of managerial planning and control systems with emphasis on the development and administration of the budget and financial support systems.</p>			<p>A capstone study of the philosophical assumptions upon which American business and management are based. The course defines corporate culture as a contemporary phenomenon distinguishable from the historical roots of traditional labor and management.</p>		
			MGT-450	Negotiation/Conflict Resolution	3
			<p>Using simulation, case studies, and fieldwork assignments, this course focuses on the development of the communication and management skills essential for successfully resolving conflict situations involving both labor and management practices and the structural dysfunctions of organizations.</p>		
			MGT-460	International Issues in Business	3
			<p>A study of the issues created by the internationalization of markets and competition for both small proprietorships and large corporations. Included will be discussion of problems in establishing overseas markets, financing production abroad, legal restrictions, cross-cultural interactions, foreign and domestic tax complications, and theories of world trade.</p>		

MGT-490	Human Resources Development	2	MKG-370	E-Commerce	3
<p>The course will emphasize the importance of training and development in organizations. The primary issues involved in developing curriculum and implementing a training program will be studied and discussed. Students will also be challenged to establish their own "curriculum" for personal development and lifelong learning.</p>			<p>This course examines the development of and future prospects for electronic commerce. Students will consider the emerging changes in business brought on by e-commerce, the dynamics of technical innovation, the organizational and societal consequences of moving commerce electronically, and will evaluate the operations of a variety of web businesses. Prerequisites: MKG-210 and Admission to the Business Division.</p>		
MGT-496	Applied Management Project	3	MKG-386	Marketing Practicum	
<p>This course is designed to demonstrate that the student has developed the ability to integrate a diverse management education with several years of practical experience for the purpose of solving a case study management problem of special significance to the student.</p>			<p>An opportunity for advanced students to obtain valuable work experience and gain expertise in relating classroom material to actual business endeavor. A professional-quality paper analyzing one or more business applications will be prepared under departmental faculty supervision. Prerequisites: MKG-210 and Admission to the Business Division.</p>		
MKG-210	Marketing Principles	3	MKG-398	Marketing Research	3
<p>This course emphasizes the principles of marketing and will focus on the social process that directs an economy's flow of goods and services from producers to consumers in a way that accomplishes the goals of society. This course also examines marketing from the perspective of the organization. Prerequisite: BUS-100.</p>			<p>An in-depth study of the various methods of marketing research. Both quantitative and qualitative methods will be taught in the course. Students will be involved in the development of an actual marketing research project. Prerequisite: MKG-210 and admission to the CAS Business Division or permission of the instructor, or admission into the CAPS BSMK program.</p>		
MKG-346	Consumer Behavior	3	MKG-399	Service Learning	3
<p>A study of major factors that influence consumer purchase behavior. Such factors as cultural, social, personal, and psychological are studied. Special emphasis is given to the buyer decision-making process. Prerequisites: MKG-210 and admission to the CAS Business Division or admission into the CAPS BSMK program.</p>			<p>Service-Learning is an educational experience in which students participate in organized service activities that meet identified community and/or university needs. Prerequisite: Admission to the Business Division.</p>		
MKG-348	Service Marketing	3	MKG-399H	Honors Thesis/Project-Marketing	3
<p>A study of the marketing of services as opposed to the marketing of products. Topics include distinct aspects of service marketing, management of service marketing systems, and positioning the service organization. Prerequisites: MKG-210 and admission to the CAS Business Division or admission into the CAPS BSMK program.</p>			<p>MKG-424 Strategic Marketing 3</p> <p>The planning and administration of marketing programs is the primary emphasis of this course. This course centers on the analysis of marketing opportunities and the development of strategies for achieving marketing plan goals and objectives. Prerequisites: Two upper-level Marketing courses and Admission to the Business Division.</p>		
MKG-353	Selling and Relationship Management	3	MKG-444	Pricing	3
<p>A study of sales effectiveness, management of sales activities, the character of the marketplace, and development of creative selling skills. Prerequisites: MKG-210 and admission to the CAS Business Division or admission into the CAPS BSMK program.</p>			<p>This course provides the student with methods used for pricing products and services. The course employs concepts from the following business fields: marketing, microeconomics, accounting, finance, production, and management. The primary objective is to provide students with the tools they will need to make what are arguably some of the most important business decisions--how to price various products and services. Prerequisites: MKG-210 and Admission to the Business Division.</p>		
MKG-357	Advertising and Promotion	3			
<p>An in-depth study of the administration of advertising, consumer advertising, industrial advertising, and professional and trade advertising. Actual advertisements are developed and tested for effectiveness. MKG-210 and admission to the CAS Business Division or admission into the CAPS BSMK program.</p>					

MKG-496	Marketing Seminar	3	MNG-334	Production and Operations Management	3
<p>A seminar for senior marketing students focusing on current issues and special marketing topics. Student-led discussions and presentations, as well as guest speakers, are used extensively in the classroom portion of the course which provides two hours of credit. Students prepare two presentations, one oral and one written, to satisfy the third credit hour.</p>			<p>An introduction to the field of production and operations management. The course represents a blend of concepts from industrial engineering, cost accounting, general management, quantitative methods, and statistics. Production and operations activities, such as forecasting, choosing a location for an office or plant, allocating resources, designing products and services, scheduling activities, and assuring quality are core subjects covered in the course. Prerequisites: BUS-320 and MNG-210 and Admission to the Business Division.</p>		
MKG-498	Marketing Seminar - Research		MNG-378	Comparative Management Styles	3
<p>A seminar course intended to develop the senior marketing major's research skills and professional writing skills in anticipation of the major seminar presentation to be delivered publicly in the following semester. Prerequisites: ACC-201, ACC-202, BUS-100, BUS-362, ECO-211, ECO-212, FIN-340, MKG-210, MNG-280 and either senior classification or written permission of the Business Division.</p>			<p>A study of how management philosophies pervade organizations. Attention is focused on what organizations stand for and how organizations express values to their constituencies. Course participants will observe progressive management practices in action at various organizations. Prerequisites: LDR-200; or ACC-201, ACC-202, BUS-100, ECO-211, ECO-212, and the appropriate major area gateway course(s).</p>		
MKG-499	Marketing Seminar - Presentation	1	MNG-385	Management Practicum	
<p>A seminar course intended to develop the senior marketing major's professional presentation skills as he/she prepares and delivers the results of the research in MKG-498 from the previous semester. Prerequisite: MKG-498.</p>			<p>An opportunity for advanced students to obtain valuable work experience and gain expertise in relating classroom material to actual business endeavor. A professional-quality paper analyzing one or more business applications will be prepared under departmental faculty supervision. Prerequisites: MNG-210 and Admission to the Business Division.</p>		
MNG-210	Management Principles	3	MNG-399	Service Learning	3
<p>A study of management principles as they apply to all organizations. The functions of planning, organizing, directing, motivating, and controlling are examined. Prerequisite: BUS-100 or LDR-200.</p>			<p>Service-Learning is an educational experience in which students participate in organized service activities that meet identified community and/or university needs. Prerequisite: Admission to the Business Division.</p>		
MNG-324	Small Business Management	3	MNG-443	Organizational Behavior	3
<p>This course provides an introduction to the world of small business and to the fundamentals of effective small-business management. Fundamentals of such diverse activities as organizing and controlling, pricing, advertising, financial analysis, record keeping, budgeting, purchasing, controlling inventory, franchising, and acquiring capital are covered. An aim of the course is to integrate the functional disciplines such as management, marketing, finance, accountancy, and management information systems. Prerequisites: Either MNG-210 or LDR-200. Admission to the Business Division.</p>			<p>Organizational behavior is concerned with the study of the behavior, attitudes, and performance of workers in an organizational setting; the organization's and informal group's effect on the worker's perceptions, feelings, and actions; the environment's effect on the organization and its human resources and goals; and the effect of the workers on the organization and its effectiveness. Special emphasis is placed on management theory with an eye to developing a Biblical philosophy of management. Prerequisites: MNG-210 or LDR-200. Admission to the Business Division.</p>		
MNG-328	Human Resource Management	3	MNG-498	Management Seminar - Research	2
<p>A study of the various functions considered vital to the efficient use of the firm's most valuable asset, its human resources. Covers the areas of staffing, employee development and training, creation of a favorable work environment, and the operation of management-labor relations. Prerequisites: MNG-210 or LDR-200. Admission to the Business Division.</p>			<p>A seminar course intended to develop the senior management major's research skills and professional writing skills in anticipation of the major seminar presentation to be delivered publicly in the following semester. Prerequisites: ACC-201, ACC-202, BUS-100, ECO-211, ECO-212, FIN-340, MKG-298, MNG-280, and either senior classification or written permission of the Business Division.</p>		

MNG-499	Management Seminar -Presentation	1	MSC-401	Leadership Challenges and Goal Setting	4
<p>A seminar course intended to develop the senior management major's professional presentation skills as he/she prepares and delivers the results of the research in MNG-498 from the previous semester. Prerequisite: MNG-498.</p>			<p>Plan, conduct, and evaluate activities of the ROTC cadet organization. Develop confidence in skills to lead people and manage resources. Develop counseling and motivating techniques. Prerequisite: MSC-302; permission of the department.</p>		
MSC-101	Introduction to Military Science	1	MSC-402	Transition to Lieutenant	4
<p>Studies the organization, history, and traditions of the United States Army and the characteristics and skills that future leaders will need to develop. Covers military skills such as first aid, rifle marksmanship, and land navigation.</p>			<p>Continues the methodology from MSC-401. Refine counseling and motivating techniques and prepare for a future as a successful Army lieutenant. Prerequisite: MSC-401; permission of department.</p>		
MSC-102	Introduction to Leadership	1	MUS-100	Applied Study - Non-Majors	1
<p>Incorporates small group exercises with various military and communication skills to introduce the real world situations that future leaders may face. Includes active participation in discussions and activities. Builds on topics discussed in MSC-101.</p>			<p>Applied Study for non-music majors; requires a private lesson fee. Meets 1/2 hour once each week with adjunct faculty.</p>		
MSC-201	Leadership/Military Tactics	2	MUS-101	Applied Study - Level I (majors)	1
<p>Examines light infantry tactics. Introduction to squad movement techniques, ambushes, reconnaissance, movement to contact, advanced land navigation, drill and ceremony, first aid, and weapons.</p>			<p>Study of applied music at the freshman level; requires a private lesson fee. Meets one hour each week.</p>		
MSC-202	Leadership/Team Development	2	MUS-101P	Applied Study Perfor- Level I	2
<p>Continued study of tactical leadership development. Focuses on operations orders, communication skills, weapons, map reading, and drill and ceremony.</p>			<p>This course provides individual instruction in the performance techniques and literature of the instruments and voice. Emphasis is placed on the development of a sound technical foundation, familiarity with the performance approaches and the study of the instrument's vast literature. Upon successful completion, students will be able to demonstrate proficiency in technical skills and repertoire through performance. An additional fee per semester is required.</p>		
MSC-299X	Experimental/Developmental Topics		MUS-102P	Applied Study Perfor Level 2	2
<p>Topics relevant to the discipline. Titles to be announced before each semester. Prerequisite: enrolment in military science; permission of the department. A total of 6 hours of credit may be earned.</p>			<p>This course provides individual instruction in the performance techniques and literature of the instruments and voice. Emphasis is placed on the development of a sound technical foundation, familiarity with the performance approaches and the study of the instrument's vast literature. Upon successful completion, students will be able to demonstrate proficiency in technical skills and repertoire through performance. An additional fee per semester is required.</p>		
MSC-301	Military Leadership and Operations 1	4	MUS-105	Class Piano Level I	2
<p>Introduction to military planning methodology. Develop oral and written communication skills through introduction to small unit tactics and operations. Prerequisite: MSC-202; permission of the department.</p>			<p>This course is designed for students with no previous piano instruction. Development of two-hand coordination, five-finger patterns, playing two independent lines simultaneously, all major tetrachords, five major scales in two octaves (hands separately), triad playing, I, IV, V chords, ensemble, transposition, pedaling and sight reading.</p>		
MSC-302	Military Leadership and Operations 2	4	MUS-111	Applied Study - (music Minors)	1
<p>Continues the methodology of MSC-301. Analysis of leadership and management problems using military tactics at the squad level. Train on individual skills. Prerequisite: MSC-301; permission of the department.</p>			<p>Study of applied music for the music minor at the first semester of study, requires private lesson fee. Meets one-half hour each week.</p>		

MUS-112	Applied Study - (music Minors)	1	MUS-149	Introduction to Contemporary Worship	2
<p>Study of applied music for the music minor at the second semester of study, requires private lesson fee. Meets one-half hour each week.</p>			<p>This semester-length course provides an overview of contemporary worship music and its application in a worship service. Students will learn through experience as worship teams model the distinctives of contemporary worship music. A variety of areas will be explored: contemporary music theory, working with a praise band, arranging for the worship team, developing and leading teams, effective resources for worship.</p>		
MUS-114	Class Voice	1	MUS-159	Fundamentals of Music Theory	2
<p>A study of basic vocal technique, including breathing, resonant tone production, note reading, and fundamental vocabulary for singers; aims at developing healthy vocal habits. This course is open to voice electives and non-majors.</p>			<p>This course will teach students to read notes (pitch and rudimentary rhythm) in G and F clef and to connect graphic images to appropriate keys of the keyboard. This course will also include studies in scales, intervals and triads.</p>		
MUS-117	Beginning Piano/Non-Major I	1	MUS-160	Introduction to Music Theory	2
<p>Designed for the non-major who has not had previous piano instruction. While learning the fundamentals of music--elementary rhythms, notation, and primary chords--the student gains facility on the keyboard by playing interesting pieces in easy keys.</p>			<p>A study of the basic fundamentals of music: major and minor scales, key signatures, triads, and introduction to functional harmony. Open to non-music majors as well as majors. Offered every semester. Prerequisite: The ability to read notes.</p>		
MUS-118	Beginning Piano/Non-Major II	1	MUS-162	Music Theory I	3
<p>Designed for the non-major with some keyboard experience. Continued study of music fundamentals including scales and triads, elementary accompaniment styles, pedaling, and elementary-intermediate repertoire as appropriate for the individual student. Prerequisite: MUS-117 or equivalent.</p>			<p>Review of scales, intervals and triads. Elementary harmony is studied by writing and analysis of diatonic triads in four-part harmony, figured bass, cadences, non-harmonic tones, voice-leading, dominant seventh chords, and harmonic progression. Prerequisite: MUS-160 or permission of instructor.</p>		
MUS-119	Keyboard Skills I	1	MUS-164	Ear Training I	2
<p>Designed for Piano majors to increase functional skills on keyboard such as harmonization with a variety of accompaniment styles, reading of four-part vocal and instrumental scores, transposition of easy contrapuntal pieces at sight, hymn playing with adaptations, art-song accompaniments with concentration on style, balance, etc., sight-reading (about grade three), patriotic songs and improvisation.</p>			<p>Includes the singing of all intervals and scales, melodic and interval dictation. Identification of major and minor triads. Rhythmic exercises. Sight-singing in a limited vocal range. To be taken concurrently with Music Theory I.</p>		
MUS-120	Diction for Singers	2	MUS-165	Class Piano Level II	2
<p>A comprehensive study of the rules for proper enunciation of Italian, French, German and Ecclesiastical Latin with practical exercises in a comparative approach for American Singers. Languages will be studied using the specific symbols of the International Phonetic Alphabet. Offered Spring.</p>			<p>This course includes two and three-part textures, I, IV, V, V7 chords in root position and inversions for progressions and harmonization, elementary accompaniment styles, seven major scales (hands together), seven minor scales (hands separately), arpeggios, alto and tenor clef score reading, and sight reading. Prerequisite: MUS-105 or equivalent; MUS-162 (Theory I) prior to or during same semester.</p>		
MUS-124	Guitar Techniques for Leading Worship	1	MUS-167	Opera Workshop	
<p>The purpose of this course is to help the student gain a greater understanding of guitar-driven worship leading techniques; to explore and perform different styles of contemporary worship songs; to gain guitar-leading experience of basic worship music repertoire; to understand the basics of chord-chart reading and writing; and to display an understanding of transition patterns and modulations using expanded guitar chords.</p>			<p>Opera Workshop is a course designed to train students in the art of auditioning for the opera genre and preparing a role, culminating in the presentation of an opera scenes program. Fulfills a prerequisite for MUS-190: Opera Theatre. This course may be repeated for a total of 9 hours. Must be concurrently enrolled in MUS-100 or equivalent. Offered Fall.</p>		

MUS-170 Music Appreciation

A review of the history of music with the objective of providing students with aesthetic and cultural experiences. Covers some elements of music and explores works of a variety of composers from different style periods. Not open to individuals with credit in MUS-180.

MUS-171 Studio Recording I 3

This course will provide an understanding of the theory and practice of studio recording and sound reinforcement. Students will gain hands-on knowledge of the equipment and techniques used in the recording studio.

MUS-173 Handbell Ensemble

This course will offer students an opportunity to develop their musicianship, music reading and performance skills through the study of handbell literature.

MUS-174 Women's Chorus

Indiana Wesleyan University Women's Chorus is an auditioned SSAA choir, comprised of music majors and also includes students from other disciplines. This chorus assists in various campus and community programs and represents the university in concert. Admission is by audition and approval of the director. Participants who are enrolled in the first semester are expected to enroll again for the second semester. Rehearsals take place twice a week. This ensemble may meet the requirement for large ensemble credit only for those who are Music Education majors with an emphasis in applied strings.

MUS-175 Chapel Ensemble

This course will provide an opportunity for singers and instrumentalists to adequately train and rehearse in preparation to lead worship for IWU Chapel. Students will form various ensembles-in agreement with their area of expertise-and from such ensembles worship music for all Chapels will be provided. This is a mandatory class for all students willing to participate in IWU Chapel Worship Teams. Can earn 1 hour credit (may be repeated for 0 hr credit).

MUS-176 Tuba/Euphonium Quartet

This quartet provides chamber music as well as a variety of offerings from classical, to hymn arrangements and lighter selections. Entrance to the ensemble is by audition.

MUS-177 Clarinet Quartet

The clarinet quartet is an auditioned ensemble that provides chamber music as well as a variety of musical styles from classical, hymn arrangements, and lighter selections.

MUS-178 Saxophone Quartet

The saxophone quartet is an auditioned ensemble that provides chamber music as well as a variety of musical styles from classical, hymn arrangements, and lighter selections.

MUS-179 Woodwind Quintet

The woodwind quartet is an auditioned ensemble that provides chamber music as well as a variety of musical styles from classical, hymn arrangements, and lighter selections.

MUS-180 Humanities Fine Arts 3

An integrated study of history and appreciation of art and music in Western culture from ancient times to present. (Part of the Humanities Core Curriculum.)

MUS-181 Guitar Ensemble

The IWU Guitar Ensemble is a musical ensemble designed to familiarize the student with music of different styles and eras and the proper execution of that music. Included in the course will be emphasis on ensemble playing skills--balance, blend, intonation, tone, etc. Concerts will be performed by the group.

MUS-182 Piano Ensemble

The course is designed to familiarize pianists with the wide variety of literature available for piano ensemble playing, from piano duet to works for multiple pianos.

MUS-183 IWU Jazz Combo

The IWU Jazz Combo provides the opportunity to explore the jazz medium in greater detail. The term "jazz combo" is used to describe almost any group of instruments smaller than ten pieces, which would include a rhythm section (drums, bass, piano), and at least 2 soloists. This ensemble's greatest emphasis will be in the area of improvisation and it will practice a variety of tunes drawn from the following categories: Bebop, modal, standards, ballads, rhythm and blues, blues, Latin, contemporary, and sacred. As Christian musicians, it is imperative that we strive to serve God in our music. This style is an opportunity to praise God and serve Him in a wonderful and different way.

MUS-184 World Music Ensemble

Music of various cultures will be studied and performed, concentrating on (but not limited to) music of African, Latin American, Caribbean, and Japanese styles. Instrumentation for this ensemble includes authentic drums and non-pitched instruments as well as xylophones and metallophones. Prerequisite: permission of the Music Division.

MUS-185 Flute Ensemble

The flute ensemble is an auditioned ensemble that provides chamber music as well as a variety of musical styles from classical, hymn arrangements, and lighter selections.

MUS-186 String Quartet

The string quartet is an auditioned ensemble that provides chamber music as well as a variety of musical styles from classical, hymn arrangements, and lighter selections.

MUS-187 Trombone Ensemble

The Trombone Ensemble is an auditioned ensemble that provides chamber music as well as a variety of musical styles from classical, hymn arrangements, and lighter selections.

MUS-188 Woodwind Ensemble

The woodwind ensemble is an auditioned ensemble that provides chamber music as well as a variety of musical styles from classical, hymn arrangements, and lighter selections.

MUS-189 Honors Brass Quintet

The honors brass quintet is an auditioned ensemble that provides chamber music as well as a variety of musical styles from classical, hymn arrangements, and lighter selections.

MUS-190 Opera Theater

Opera Theater is a course designed to give students practical experience in preparing and performing the opera genre culminating in the presentation of a major opera, operetta or opera scenes program. Admittance is by audition and approval of the director. This course may be repeated.

MUS-192 University Chorale

The University Chorale is a mixed choral ensemble of approximately 80-85 voices. Repertoire consists of sacred classics, hymns, spirituals and contemporary compositions, in addition to major choral/orchestral works. The Chorale represents the University in concert at various community and university events. Admittance is by audition and approval of the director. This ensemble meets four times each week. The course meets the large ensemble requirement for those individuals whose major is in the area of voice. Participants enrolled in first semester are expected to enroll the second semester.

MUS-193 University Singers

University Chorale, University Singers, and Chamber Singers are offered as large vocal ensembles. These organizations assist in various school and community programs and represent the university in concert. Admittance is by audition and approval of the director. Meets two times a week. Participants enrolled in the first semester are expected to enroll the second semester.

MUS-194 Chamber Singers

Chamber Singers is a mixed ensemble of approximately 18-20 voices. Repertoire consists of chamber music from all periods of Western Music History along with contemporary compositions. The Chamber Singers represent the University in concert at various community and university events. Admittance is by audition and approval of the director. This ensemble meets two times each week. Participants enrolled in the first semester are expected to enroll the second semester.

MUS-195 Percussion Ensemble

Wind Ensemble, Jazz Ensemble, Orchestra, Percussion Ensemble, and other instrumental ensembles are offered. These organizations assist in various school and community programs and represent the university in concert. Admittance is by audition and approval of the director. Meets two times a week.

MUS-196 Wind Ensemble

Wind Ensemble, Jazz Ensemble, Orchestra, Percussion Ensemble, and other large instrumental ensembles are offered. These organizations assist in various school and community programs and represent the university in concert. Admittance is by audition and approval of the director. Meets four times a week. Participants enrolled in the first semester are expected to enroll the second semester.

MUS-197 Jazz Ensemble

Wind Ensemble, Jazz Ensemble, Orchestra, Percussion Ensemble, and other instrumental ensembles are offered. These organizations assist in various school and community programs and represent the university in concert. Admittance is by audition and approval of the director. Meets two times a week.

MUS-198 Orchestra

Wind Ensemble, Jazz Ensemble, Orchestra, Percussion Ensemble, and other instrumental ensembles are offered. These organizations assist in various school and community programs and represent the university in concert. Admittance is by audition and approval of the director. Meets two times a week. Participants enrolled in the first semester are expected to enroll the second semester.

MUS-199 Brass Choir

Wind Ensemble, Jazz Ensemble, Orchestra, Percussion Ensemble, and other instrumental ensembles are offered. These organizations assist in various school and community programs and represent the university in concert. Admittance is by audition and approval of the director. Meets one to three times a week.

MUS-200 Recital Attendance 0

For music majors and minors only. Requires students to attend a specified number of musical events. Music majors must complete the course for 7 semesters and minors for 4 semesters to qualify for graduation. Offered every semester. Graded on a CR/NC basis.

MUS-201	Applied Study- Level II (majors)	1	MUS-220	Organ Class	1
<p>Study of applied music at sophomore level of study requires private lesson fee. Meets one hour each week.</p>			<p>An introduction to the study of the organ, typical stop lists and designations, literature, means of tone generation in acoustic and electronic emulations, MIDI applications, training and expectations for an organist, playing techniques, use of the organ in contemporary settings. Prerequisite: Completion of piano requirements.</p>		
MUS-201P	Applied Study Perfor- Level 2	2	MUS-245	Piano Pedagogy I	2
<p>This course provides individual instruction in the performance techniques and literature of the instruments and voice. Emphasis is placed on the development of a sound technical foundation, familiarity with the performance approaches and the study of the instrument's vast literature. Upon successful completion, students will be able to demonstrate proficiency in technical skills and repertoire through performance. An additional fee per semester is required.</p>			<p>The focus of the class will be on the study of current elementary methods and literature for teaching piano. The course will provide a general foundation for the knowledge and experience needed for teaching beginning piano.</p>		
MUS-202P	Applied Study Perfor Level 2	2	MUS-246	Piano Pedagogy II	2
<p>This course provides individual instruction in the performance techniques and literature of the instruments and voice. Emphasis is placed on the development of a sound technical foundation, familiarity with the performance approaches and the study of the instrument's vast literature. Upon successful completion, students will be able to demonstrate proficiency in technical skills and repertoire through performance. An additional fee per semester is required.</p>			<p>The focus of the class will be on the study of techniques and literature for the teaching of intermediate/early advanced piano students. The study will also include setting up a private studio. It will provide a general foundation for the knowledge and experience needed for piano teaching at the intermediate level. Both private studio and group piano settings will be experienced and observed through practical teaching projects.</p>		
MUS-205	Class Piano Level III	2	MUS-248	Keyboard Literature	2
<p>Greater independence of hands in intermediate repertoire using three- and four-part textures, more challenging rhythms, secondary chords (ii, iii, vi) used for harmonization, four-part hymn transposition, transposition of instruments in score-reading, major scales to four sharps and four flats, parallel minor scales (all hands together), arpeggios, sight reading. Prerequisite: MUS-165 or equivalent; MUS-261 (Theory II) prior to or during same semester.</p>			<p>The focus of this class will be the study of keyboard literature by major composers of each era. Important style characteristics of these composers will be studied to give insight for increased understanding and interpretation of a wide variety of keyboard literature. Prerequisite: previous keyboard study of the upper intermediate/early advanced level.</p>		
MUS-211	Applied Study - (music Minors)	1	MUS-254	Church Music I - Christian Education/Administration	3
<p>Study of applied music for the music minor at the third semester of study, requires private lesson fee. Meets one-half hour each week.</p>			<p>An overview of the use of music in the Christian Education program of the local church. Includes work with children, basic music education, and development of tools to assist the Christian Education worker. Also includes methods of planning, organizing, and developing a music program in a local church. Personal development in leadership and staff relationships is discussed.</p>		
MUS-212	Applied Study - (music Minors)	1	MUS-255	Contemporary Keyboard for the Church Accompanist	1
<p>Study of applied music for the music minor at the fourth semester of study, requires private lesson fee. Meets one-half hour each week.</p>			<p>This course is designed for students with majors in Church Music, Christian Education, and Piano who plan to perform in a church setting. Reading chords, understanding chord inversions, positions on the piano, voicings and added tones, modulations, and combining these elements with contemporary theory will enable students to be successful in the contemporary church music setting. This is an elective course that will be offered every other year. Prerequisites: MUS-205 and audition. Limited to 10 each semester.</p>		
MUS-218	Collaborative Piano	2			
<p>This course will offer students an opportunity to increase their ability to make music with other musicians in both vocal and instrumental collaboration and to experience the wealth of chamber music repertoire.</p>					

MUS-260	Hymnology	1	MUS-275	Introduction to Computer Applications in Music	1
<p>The course will be a short historical study of the great hymns of the Christian church, their writers and composers and patterns of development and change. Attention will focus on hymns of the Protestant heritage, with study of characteristics of well-crafted hymns and tunes. Not restricted to music majors.</p>			<p>Students will be introduced to topics in MIDI (Musical Instrument Digital Interface), notation, MIDI controllers, and Internet music resources for PC-compatible computers. Prerequisite: MUS-162 or equivalent.</p>		
MUS-261	Music Theory II	3	MUS-280	Choral Techniques	2
<p>The study of harmony is continued through four-part writing and analysis of music literature. Chordal vocabulary is increased with dominant and non-dominant seventh chords as well as secondary and leading-tone chords. Procedures of modulations, realization of figured bass, and transposing for various instruments. Prerequisite: MUS-162.</p>			<p>This course will be divided into three modules. Module one: basic understanding of vocal production and pedagogy. Special emphasis on the development of the voice from a young age through adulthood. Module two: choral techniques pertaining to development of good choral tone and musicianship. Emphasis on rehearsal techniques and choral sound. Module three: literature for various levels and styles; efficient organization and operation of a choral ensemble.</p>		
MUS-263	Ear Training II	2	MUS-281	Woodwind Techniques	2
<p>Interval, melodic, two and four-part, and rhythmic dictation. Recognition of bass and soprano factors as well as triad function in four-part dictation. Rhythmic exercises including subdivision level. Sight-singing with modal inflections and in tenor and alto clef. To be taken concurrently with Music Theory II.</p>			<p>This course is for the music major, who may or may not have prior knowledge or experience on a woodwind instrument. The opportunity to gain knowledge and experience on a wind instrument is considered essential in the teacher education process. For the applied or church music major, this course will provide foundational knowledge and performance skills for purposes of basic performing, teaching, or arranging. This course is designed to commence at the beginning performance/skill level, and will progress to a basic intermediate level.</p>		
MUS-264	Music Theory III	3	MUS-282	String Techniques	2
<p>Four-part writing and analysis involving tertian sonorities (9th, 11th, and 13th chords) and chromatic harmony (borrowed, Neapolitan, augmented sixth, altered dominant, and chromatic mediant chords). Introduction to analysis techniques for Twentieth Century music. Prerequisite: MUS-261.</p>			<p>An introduction to the technique of playing string instruments. Violin, viola, cello, and string bass are equally emphasized.</p>		
MUS-265	Form and Analysis	2	MUS-283	Percussion Techniques	2
<p>Analytical skills are developed further by studying typical musical forms of the Eighteenth and Nineteenth centuries, such as binary, ternary, variation, fugue, sonata-allegro, and rondo. Prerequisite: MUS-264.</p>			<p>An introduction to the techniques of playing all percussion instruments. Emphasis is placed on tympani, snare drum, and mallet instruments.</p>		
MUS-266	Ear Training III	1	MUS-284	Brass Techniques	2
<p>Dictation of modulating exercises, intervals, modes, and rhythm. Recognition of more functions of four-part harmony. Identification of cadences and major, minor, augmented, and diminished triads. Rhythmic exercises of difficult nature. Sight-singing with modulating passages and of an extensive range. To be taken concurrently with Music Theory III.</p>			<p>An introduction to the techniques of playing brass instruments. The trumpet, French horn, trombone, baritone, and tuba are equally emphasized.</p>		
MUS-268	Counterpoint	2	MUS-285	Beginning Conducting	2
<p>Beginning students will work with first- through fifth-species counterpoint in two and three voices with a cantus firmus. Work will include exercises in canon and invertible counterpoint.</p>			<p>An introductory survey in basic conducting techniques applicable to both choral and instrumental music. The focus of this course will be on the mastery of standard beat patterns as well as communication of cues, tempo, dynamics, mood, and other musical nuances. Techniques will be applied and evaluated through in-class conducting. Other related topics will include score study, rehearsal techniques, baton grip, and selection of choral and instrumental literature.</p>		

MUS-286	Advanced Conducting	2	MUS-301P	Applied Study Performance - Level 3	2
<p>A course devoted to the study and application of advanced techniques in choral and instrumental conducting. The course will focus on that which is technically challenging for the conductor or that which requires an alternative conducting gesture. Literature chosen for in-class application and evaluation will include chant (non-metric), recitative, and other excerpts from works that utilize combined vocal and instrumental forces, and multimeteric and polymetric music. Related topics will include core preparation and study, nontraditional notation, performance practice in various stylistic periods, rehearsal planning for large vocal and orchestral works, recruiting and administrative duties involved in a choral or instrumental music program. Prerequisite: MUS-285.</p>			<p>This course provides individual instruction in the performance techniques and literature of the instruments and voice. Emphasis is placed on the development of a sound technical foundation, familiarity with the performance approaches and the study of the instrument's vast literature. Upon successful completion, students will be able to demonstrate proficiency in technical skills and repertoire through performance. An additional fee per semester is required.</p>		
MUS-287	Marching Band Techniques	1	MUS-302P	Applied Study Perform Level 3	2
<p>Marching Band Techniques is available to all music education majors and is meant to give students the knowledge of how to lead a marching band program in today's secondary schools. The class will focus on all aspects of the modern marching band, including history, rehearsal techniques, drill design, uniform care and selection, color guard, drum majors, marching instruments, and organization skills.</p>			<p>This course provides individual instruction in the performance techniques and literature of the instruments and voice. Emphasis is placed on the development of a sound technical foundation, familiarity with the performance approaches and the study of the instrument's vast literature. Upon successful completion, students will be able to demonstrate proficiency in technical skills and repertoire through performance. An additional fee per semester is required.</p>		
MUS-290	Jazz Improvisation	1	MUS-305	Class Piano Level IV	2
<p>This course is applicable for all students interested in exploring the area of improvisation. The scope of the course will cover basic jazz theory and creating a meaningful improvisational solo. The design of the course will encompass both playing participation and lecture. This course is open to any instrumentalist. Prerequisites: MUS-215 and MUS-261. The professor must grant permission for enrollment.</p>			<p>This course is for more advanced level of competency in keyboard playing and includes technical studies (2 octave scales and arpeggios in all keys, hands together), late intermediate repertoire, harmonization using secondary dominant with stylized accompaniment, 3-4 part vocal score reading, art song accompaniment, selected patriotic songs, and 4 part texture transposition to neighboring keys. Prerequisite: MUS-205 or equivalent; MUS-264 (Theory III) prior to or during same semester.</p>		
MUS-295	Show Choir Techniques	2	MUS-311	Applied Study - (music Minors)	1
<p>Deals with show choir literature and performance techniques. Involves visits to area high schools to observe rehearsals and programs, lectures by local choral directors, and practical experience in organization and handling of a show choir. Offered alternate years.</p>			<p>Study of applied music for the music minor at the advanced level of study, requires a private lesson fee. Meets one-half hour each week.</p>		
MUS-300	Arranging	1	MUS-318	Orchestration	2
<p>An introduction to orchestration, transcription, and arranging. Emphasis on the acquisition and development of the practical skills necessary to adapt and arrange music for a variety of uses and mediums. Prerequisites: MUS-162, MUS-261, and MUS-264.</p>			<p>Study of the characteristics of orchestra and other instruments and techniques for scoring for these instruments in various combinations. Prerequisite: MUS-261.</p>		
MUS-301	Applied Study-Level III (majors)	1	MUS-321	Keyboard Skills II	1
<p>Study of applied music at junior level of study, requires private lesson fee. Meets one hour each week.</p>			<p>Designed for Piano majors to increase advanced functional skill as pianists. Harmonization of melodies involving primary, substitute, secondary dominant and seventh chords, modulation, by-ear playing and improvisation, transposition of hymns at sight, more challenging assignments in vocal and instrumental scores, accompaniments, patriotic songs, and sight-reading (solo, ensemble), hymns with adaptations. Prerequisite: MUS-119.</p>		

MUS-345	Piano Pedagogy	2	MUS-380	Private Studies in Conducting	1
<p>Designed for music majors and electives who may become independent piano teachers; study of teaching methods, materials, and literature emphasizing early through intermediate levels; student observation/teaching experiences; business aspects. Offered alternate years.</p>			<p>Advanced studies of conducting. For upper-class majors. By permission of the instructor. Requires applied lesson fee. Offered on demand.</p>		
MUS-354	Church Music II - Worship	3	MUS-383	Elementary Music Methods for Music Education Majors	2
<p>Designed to assist the pastor in working with the musician, aid the musician in using music to create the desired environment for worship, and assist the member of the congregation in his understanding of the worship service. A basic study of hymnology is included.</p>			<p>This course is designed to present an introduction to the general music program in the elementary schools. Its purpose is to sharpen musical skills and sensitivity, create and teach lessons based on specific concepts at appropriate grade levels, and develop insights into current music education approaches and methodology (Orff, Kodaly, Dalcroze, etc.). Performance skills in soprano recorder, autoharp, and guitar will also be included.</p>		
MUS-363	Instrumental Methods	2	MUS-383P	Elementary Music Practicum	1
<p>A comprehensive investigation of the instrumental music program. Emphasis will be placed on the development of the band and orchestra program including literature, teaching techniques, marching band, orchestra, concert band, jazz band, chamber music, and school, community, and parent support.</p>			<p>This course provides a practicum experience for K-12 music education majors in elementary-level classrooms in public or private schools. Students will observe/assist an experienced elementary music teacher who will serve as the cooperating teacher for the practicum. Students will teach a minimum of three lessons in the elementary classroom, and will be observed and evaluated by both IWU Music Education faculty and Education Division faculty. Graded as a Credit/No Credit class. Co-requisite: MUS-383. Permission of the Music Education faculty and Division of Education to take this course in conjunction with EDU-382C.</p>		
MUS-364	Organ Pedagogy	2	MUS-385	Music Technology for Music Educators	2
<p>Required of organ majors; techniques of teaching as applied to organ teaching; involves a review of organ methods and teaching guides. A pedagogy student will do a limited amount of student teaching. Offered on demand.</p>			<p>An introduction to computer applications in music with an emphasis on programs of particular pertinence to music educators.</p>		
MUS-365	Vocal Pedagogy	2	MUS-399H	Honors Thesis/Project	3
<p>A comprehensive course covering the instruction skills necessary for vocal studio practice. Topics include vocal anatomy, diagnostic skills and philosophies and methods of teaching correct vocal production. This class includes a brief overview of private studio business practices. Prerequisites: MUS-120. Offered Fall.</p>			<p>Students will work under a faculty mentor in their major and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>		
MUS-366	Song Literature	2	MUS-401	Applied Study-Level IV (majors)	1
<p>Designed for the upper class voice major to introduce significant song composers and to perform representative selections from their works. Students will become acquainted with composer styles, art songs, opera and oratorio excerpts, and song cycles through listening and performance. Prerequisite: MUS-120 and at least three semesters of applied vocal studies. Offered Spring.</p>			<p>Study of applied music at senior level of study, requires private lesson fee. Meets one hour each week.</p>		
MUS-371	Music History and Literature I	3	MUS-401P	Applied Study Perfor- Level 4	2
<p>A survey of the history of music through the work of the great composers. The course covers the evolution of style and form to about 1750.</p>			<p>This course provides individual instruction in the performance techniques and literature of the instruments and voice. Emphasis is placed on the development of a sound technical foundation, familiarity with the performance approaches and the study of the instrument's vast literature. Upon successful completion, students will be able to demonstrate proficiency in technical skills and repertoire through performance. An additional fee per semester is required.</p>		
MUS-372	Music History and Literature II	3			
<p>A survey of the history of music through the work of the great composers, past and present. The course covers the evolution of style and form from 1750 into the Twentieth Century.</p>					

MUS-402P	Applied Study Perfor Level 4	2	NUR-198	Health and Wellness for Women	2
<p>This course provides individual instruction in the performance techniques and literature of the instruments and voice. Emphasis is placed on the development of a sound technical foundation, familiarity with the performance approaches and the study of the instrument's vast literature. Upon successful completion, students will be able to demonstrate proficiency in technical skills and repertoire through performance. An additional fee per semester is required.</p>			<p>Explores personal health, safe behaviors, and developmental milestones for women through the life cycle from menarche and puberty to aging and menopause. Empowers individuals to take part in their own health by increasing knowledge of women's health and self-awareness. In addition, investigates social issues related to women's health.</p>		
MUS-442	Senior Recital - Music Majors	2	NUR-201	Professional Skills in the Academic Environment	1
<p>Students enroll in this course for the final semester of applied study in preparation for the required recital. Two hour lesson per week for one semester.</p>			<p>Designed to acquaint the returning professional with skills necessary for academic success. Philosophy and procedures for the IWU Division of Nursing will be introduced. Other topics include scientific writing (APA style), computer literacy, personal time management, and other key elements for professional success.</p>		
MUS-445	Church Music Senior Project	2	NUR-205	Nursing's Role in the Health Care System	3
<p>As a substitution for the senior recital, church music majors may do a faculty coached recital/cantata/program that would have musical and practical value in a local church setting.</p>			<p>Designed to acquaint the practicing nurse with a perspective on the unique role of nurses in the health-care system. Content includes role theory, change theory, and political advocacy. Presents the efforts of nursing to help create a health-care system that assures access, quality, and services at affordable costs.</p>		
MUS-446	Senior Recital/Project in Theory/Composition	2	NUR-215	Global Health	2
<p>Students enroll in this course for the final semester of the theory/composition emphasis. During this term a final project is completed which may be a composition in a large form or a recital of several smaller compositions and/or a large project in music analysis. Prerequisites: Permission of the instructor.</p>			<p>This course will focus on international health issues. Students will develop a global perspective of the international community, political structures, and health issues. Cooperative, culturally appropriate strategies to international health issues will be discussed and developed. An introduction to global health issues: environmental health, global malnutrition, primary health care, maternal and child health, comparative health care systems, and epidemiology. A specific country/area of study will be chosen by students in order to synthesize specific international health issues and develop potential solutions. There are no prerequisites.</p>		
MUS-450	Church Music Practicum	2	NUR-221	Principles of Intervention	2
<p>Structured to be a capstone course for all Church Music Majors. Involves work in a local church. The student is required to meet for a half-hour session each week to discuss the practicum project. A minimum of 10 hours of observation and 15 hour of "hands on" work is required. For the Church Music minor, 7 hours of observation and 10 hours of practical work are required.</p>			<p>This course is designed to guide application of theory and principles for basic nursing interventions. It includes didactic and guided skills practice, and must be taken during the first semester in the nursing program. Co-requisite: NUR-245 and NUR-252.</p>		
MUS-480	Private Studies in Music Education		NUR-224	Nursing Informatics	2
<p>Advanced studies in music education. For upper-class majors. By permission of instructor. Requires independent study fee.</p>			<p>The course is designed to provide nursing students with an opportunity to acquire and apply knowledge and skills from information systems and computer technology. The focus will be on the considerations and impact of computer technology and information systems in nursing practice, nursing education, nursing administration and nursing research.</p>		
MUS-490	Senior Seminar	2			
<p>Advanced studies and research in a selected topic that is chosen by the student and approved by the music education faculty member. For upper-class majors. By permission of the instructor. Requires independent study fee.</p>					
NUR-145	Foundations of Nursing	3			
<p>Introduce students to professional nursing and begin socialization into professional roles and values. Students will identify the concepts of person, health, environment, and nursing and describe the nursing process as a framework for nursing practice. Successful completion of this course is a requirement for admission to the nursing program. Testing fee required.</p>					

NUR-232	Advanced Principles of Intervention	2	NUR-253	Maternal/Newborn Nursing	3
<p>This course is designed to guide application of theory and principles for advanced nursing interventions. It includes didactic content and guided skills practice. Must be taken during the second semester in the nursing program. Prerequisite: Successful completion of NUR-221. Co-requisite: NUR-245 or NUR-252.</p>			<p>This course is a theory and clinical course that focuses on the provision of nursing care to normal and at risk childbearing families. Normal pregnancy, labor, deliver, and care of the newborn are studied and physiological and psychological complications are presented. The course content is presented within a context of Christian values and ethics. The clinical component of the course provides the student with learning experiences related to nursing care of normal and at risk maternal/newborn clients and their families. Co-Requisite NUR-221 or NUR-232.</p>		
NUR-235	Perspectives on Poverty and Health	2	NUR-257	Nursing Care of Children	3
<p>Designed to examine the concepts of poverty and vulnerability from a variety of sources. Poverty will be considered from a cultural and spiritual perspective, as well as a socioeconomic phenomena. A brief history of society's view of poverty will be surveyed. Service learning is expected as an integral part of the course. Of particular interest to criminal justice, health promotion and wellness, ministry, missions, nursing, pre-professional health fields, social work, sociology majors, and others. No prerequisites.</p>			<p>Provides the foundation for entry-level competence for nursing care of children, includes clinical experience. Emphasis is on the application of Neuman Systems Model to family centered health and well being of infants, children, and adolescents.</p>		
NUR-237	Complementary and Alternative Therapies	2	NUR-260	Physical Assessment	3
<p>This course is designed to examine a variety of nontraditional (outside of the accepted mainstream) healing medicines and therapies. It includes a brief historical survey of health seeking behaviors and modalities from antiquity to the modern era. An analysis of the efficacy of various treatments, as well as potential harm will also be considered. This course will be of particular interest to students in the fields of health promotion and wellness, missions, nursing, pre-professional health fields, social work, psychology, and others. No prerequisites.</p>			<p>The focus of this course is the application of nursing knowledge and techniques to the process of physical assessment across the lifespan with emphasis on normal findings. Prerequisites: BIO-111 or BIO-311; BIO-112 or BIO-312; BIO-112 or BIO-213; CHE-120 or CHE-125.</p>		
NUR-242	Nutrition	2	NUR-260L	Physical Assessment Lab	0
<p>Study of the fundamental principles of nutrition and their relationships to health and disease within the context of cultural congruence. Prerequisite: CHE-120 or Nursing Division approval.</p>			<p>Laboratory experiences in nursing skills. To be taken concurrently with NUR-260. Graded on a CR/NC basis.</p>		
NUR-245	Adult Health I	4	NUR-301	Disaster Nursing	2
<p>Application of the nursing process to clients unable to satisfy their basic needs due to a pathological condition. Focuses on nursing care of adults with common health problems and includes clinical experience. Co-requisite: NUR-221 or NUR-232.</p>			<p>Disaster nursing is designed to explore all types of disaster including natural, environmental, mass casualty, public health emergencies, terrorism, and bioterrorism. The course provides the student with a knowledge base and basic competencies in emergency preparedness and disaster nursing. Prerequisite: Admission to the Nursing major or permission of the Division.</p>		
NUR-250	Pharmacology	3	NUR-305	Sexual Assault: Implications for Nursing	3
<p>Designed to introduce the student to principles of pharmacology and their relationship to health care. Included are classification of drugs, basic mechanisms of drug interaction, and drug administration. Prerequisite: Admission into Sophomore Nursing studies OR successful completion of the four science courses: BIO-111, BIO-112, BIO-113, CHE-120 and the math competency requirement.</p>			<p>The elective course will introduce the student to the scope and practice of the Sexual Assault Nurse Examiner (SANE). Learning opportunities will be provided in the classroom and clinical areas. Practical experience will take place in the community arena with visits to hospital emergency rooms, the morgue, the Indiana State Police Lab, the prosecutor's office, the court room, information meetings specific to the Sexual Assault Response Team(SART), and the committee for the Mayor's Prevention of Domestic Violence.</p>		

NUR-310	Introduction to Parish Nursing	2	NUR-337	Pathophysiology	3
<p>The purpose of this course is designed to provide the student to explore the parish nursing practice. Tools will be given to integrate faith and healing within the faith communities. The roles of the parish nurse will be presented within the nursing process framework. Prerequisite: completion of the sophomore nursing courses including NUR-232.</p>			<p>This course is designed to introduce students to concepts of pathophysiology affecting individuals and their biologic basis. The course builds on prior learning in science courses and focuses on disorders of cells, organs, and systems which may be experienced by individuals over the lifespan. It is designed primarily for nursing students but would be of interest to all who are interested in health-care professions. Co-requisite: NUR-345 or permission of the instructor.</p>		
NUR-312	Parish Nursing	3	NUR-345	Adult Health II	5
<p>This course is designed to provide the student an opportunity to explore the parish nursing practice. Tools will be given to integrate faith and healing within the faith communities. The roles of the parish nurse will be presented within the nursing process framework.</p>			<p>This course studies application of the nursing process to clients unable to satisfy their basic needs due to a pathological condition. Focus is on nursing care of ill adults with common health problems. A clinical component is included. Prerequisite: Progression to junior nursing studies. Co-requisite: NUR-337.</p>		
NUR-315	Tropical Health	2	NUR-350	Seminar in Nursing Leadership	3
<p>This course examines major health problems common to tropical climates and developing areas. The focus is on prevention and control of tropical diseases and promotion of health in community settings. No prerequisites.</p>			<p>Students will explore theories related to leadership skills. This will lay the foundation for the development of strategies and resources to gain personal and professional nursing leadership abilities. An emphasis will be placed on servant leadership.</p>		
NUR-330	Gerontological Nursing	4	NUR-365	Ethics	2
<p>This course is designed to examine the relationship of physiological, developmental, psychological, sociocultural, and spiritual variables within the aging process. Students will participate in an interdisciplinary team approach to healthcare for older adults. The course includes utilization of the nursing process in curative and palliative care settings. A clinical component is included. Prerequisite: Progression to junior nursing studies.</p>			<p>Focuses on the ethical decision-making process with emphasis on Judeo-Christian values. Designed to foster ethical development, values clarification, and effective analysis of ethical issues encountered by professional nurses. A Christian ethical perspective is promoted. Prerequisite: Admission to the Nursing Program or permission of the Division of Nursing.</p>		
NUR-332	Nursing Theory for the Clinician	3	NUR-368	Home Health Nursing	2
<p>Designed to familiarize the practicing nurse with theory-based, research-supported nursing within a Christian framework. Content covers how theory-based, reflective practice can impact nursing and health care for the benefit of humanity. The Neuman Health Care Systems Theory will be presented within a nursing process framework of nursing practice.</p>			<p>Home Health Nursing is an introductory course designed to develop beginning skills in the role of the nurse as an interdisciplinary team member providing services in the client's home. Participants will apply the nursing process to individuals and families, integrating outcomes achieved in prerequisite courses. The nurse's adaptation to varying physical environments, levels of prevention, and reimbursement mechanisms will be the focus of the learning experience. Contains clinical component. Prerequisite: Progression to the junior level of nursing.</p>		
NUR-334	Comprehensive Health Assessment of the Well Adult	2	NUR-370	Gerontology	3
<p>The purpose of this course is to enhance knowledge and skills of the practicing nurse in holistic health assessment of the well adult and the planning of health promotional nursing care. Health strengths and needs are determined through the analysis of health assessment data, and approaches to care are developed.</p>			<p>Concepts of aging including physical, psychological, socio-cultural, and spiritual variables will be addressed for the practicing nurse. The impact of the aging population on the health-care system will be applied to nursing practice with the older adult client.</p>		

NUR-371	Mental Health Nursing	3	NUR-445	Adult Nursing III	5
<p>This course explores pertinent theories of human behavior, the developmental processes of personality, mental health concepts, and the use of self. Primary emphasis is on aspects of mental health nursing that involve interpersonal relationships in individuals experiencing acute or chronic conditions. A clinical component is included. Prerequisite: Progression to junior nursing studies.</p>			<p>This course concentrates on the nursing management of individuals with acute and complex medical or surgical conditions. This study refines, deepens, and extends knowledge of adaptations and alterations in the dynamics of essential body functions. A clinical component is included. Prerequisite: Progression to senior nursing studies.</p>		
NUR-399H	Honors Thesis/Project	3	NUR-450	Capstone-Nursing From a Christian World View	2
<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>			<p>Presents foundational principles of faith as they relate to a career in nursing and provides theological and biblical foundation for professional delivery of holistic care. Students will identify and examine their own spiritual strengths and needs while developing skills in providing presence, companionship, reminiscence, and connection to individuals and families.</p>		
NUR-400	Transcultural Nursing	2	NUR-460	Population-Focused Nursing Care in Communities	5
<p>This course examines Christian values and ethics in the light of the socio-cultural variables that shape people. It provides opportunity to experience the stress imposed by socio-cultural conditions and the adaptation required to adjust professional and personal practices to different cultural environments. Prerequisite: Successful completion of NUR-245 or NUR-252 and admittance to a pre-licensure nursing program.</p>			<p>This course examines the role of the nurse related to the health needs of populations. Communities, sub-populations and vulnerable groups are defined as the subject of care. Core public health functions, global perspectives, and best practice models are among the topics addressed. Population-focused practicum experiences will focus on aggregates as the recipient of care.</p>		
NUR-400L	Transcultural Nursing-Practicum	1	NUR-470	Community Health Nursing	5
<p>This course applies the nursing process in the delivery of culturally competent care with individuals in a culture/subculture within or outside of the United States. It demonstrates responsibility and accountability in the selection of the experience in accord with interests and financial resources. Prerequisites: NUR-252, NUR-345, NUR-400.</p>			<p>Applies the nursing process to promotion of health at the community level. Population-focused practica sites include a variety of community settings. Unstructured, non-institutional practice settings are emphasized. Practicum Required. For students at the senior level of the Nursing Program.</p>		
NUR-401	Transcultural Nursing	3	NUR-471	Mental Health Nursing	3
<p>Designed to provide the practicing nurse with tools for effective delivery of health care to clients from different cultures. A practical, integrative nursing experience with another culture. Prerequisite: SOC-225 and admission to the RNBSN program.</p>			<p>Based on pertinent theories of human behavior, the developmental processes of personality, mental health concepts, and the use of self. Primary emphasis is on aspects of nursing that involve interpersonal relationships and individual and group psychotherapy. Clinical experience will be obtained in local mental health facilities. Prerequisite: Progression to senior level of nursing.</p>		
NUR-436	Research	3	NUR-473	Nursing Leadership and Management	5
<p>The course is planned to provide the student with an understanding of the research process. Basic elements of research design, sampling, data collection, and analysis are discussed. Students critique research articles and develop a proposal for an investigation of significance to the practice of nursing.</p>			<p>Focuses on synthesis of previous learning and its application in the various clinical settings. Emphasis is placed on the transition from the student role to that of a manager of client care and is accomplished through the application of management and leadership theories and principles in a clinical setting. Prerequisite: Progression to senior level of nursing.</p>		
NUR-436H	Research	3	NUR-476	Professional Transition	
<p>Concepts of pathophysiology will be presented as practicing nurses study the relationships between wholistic persons and their environments in times of physical stress.</p>			<p>Provides directed study to reinforce students knowledge through the application of critical thinking strategies. Provides experience with computer adapted testing in preparation for the NCLEX-RN. Prerequisite: Progression to senior level nursing studies.</p>		

PHE-122	Active Recreation Games	1	PHE-141	Long Distance Training and Running	2
<p>Students in this course will lead, develop, and explain new games that are related to active participation. A goal of the course is to improve fitness, enjoy indoor and outdoor activity, and expand each student's inventory of useful games.</p>			<p>This course will aid the beginning, recreational, and competitive runner in developing an appropriate training program for improvement. Students will learn and practice the key elements in developing an effective training program, and understand the basic principles of physical activity. Students will conduct a variety of physical assessment tests to determine current levels of fitness and to gauge their improvement. Course activities will consist of organized group runs, classroom theory time, and guest lecturers from various exercise professionals. The completion of a significant running event as a group will be the culmination of the class.</p>		
PHE-124	Soccer	1	PHE-155	Introduction to Physical Education, Sport, and Wellness	3
<p>The course is designed to understand soccer terminology and beginning strategies. Basic skills and rules of the game will be implemented. Soccer will be explained as a competitive and lifetime activity.</p>			<p>A course designed to give the student an understanding of the nature and scope of physical education, sport, and wellness in the world today. Areas of study that relate to Physical Education will be covered. These areas include history, philosophy, sociology, science, exercise physiology, biomechanics, and motor learning. (Offered at least every Fall.)</p>		
PHE-126	Swimming Skills	1	PHE-156	Outdoor Wilderness Learning (Wise Owl Project)	3
<p>A course designed to teach basic water adjustment and the beginning techniques of swimming and water safety.</p>			<p>Development of both outdoor living skills and recreational skills in a selected wilderness environment. Includes basic nature and conservation studies. A course offered at the IWU Canadian campus with a focus on wisdom, leadership, group dynamics, and outdoor living skills. Incidental costs are associated with this course.</p>		
PHE-128	Lifeguarding	2	PHE-157	Rhythmics	2
<p>This course is designed to teach measures necessary to provide a safe environment for swimmers. Also included are CPR and First Aid rescue techniques and timed tests. (Certification fee required)</p>			<p>Designed to develop skills in graded rhythmic activities, games, and gymnastic rhythms for the elementary and secondary levels.</p>		
PHE-130	Tennis	1	PHE-162	Personal Health	3
<p>A beginning outdoor activity to introduce an awareness of skills, terminology, and etiquette related to the lifetime sport of tennis. Both singles and doubles game strategies will be discussed.</p>			<p>Health comprises a range of states, but wellness is maximal health. The well person has physical, mental, emotional, interpersonal, social, and spiritual strengths, is aware of the possibilities of accidents and diseases, and is adequately defended against them. Because the infectious diseases are now largely under control and the life-style diseases dominate the health scene, the focus of control for responsibility for health today lies largely within the individual. Learning about health and employing that learning in life-style choices are wise investments of personal energy. The object of each health module is not only to develop and value optimal health behavior, but also to learn the steps toward establishing that behavior as a routine.</p>		
PHE-131	Cross-Country Skiing	1	PHE-163	School Health and Safety	3
<p>An outdoor winter activity that will take place at an alternate site with a fee being required. The beginning skills of Nordic skiing will be introduced, and the fitness benefits of this aerobic activity will be initially developed and then encouraged beyond the course.</p>			<p>Principles, objectives, and methods are emphasized, as well as contemporary health concepts designed to give prospective teachers and others an understanding of a well-balanced health and safety program.</p>		
PHE-132	Volleyball	1			
<p>A beginning course in the basic skills, rules, and strategies associated with the game of volleyball.</p>					
PHE-134	Weight Training	1			
<p>Proper techniques of weight lifting will be introduced. Various components of a sound weight-lifting program will be explained. The importance of weight lifting to an overall fitness program will be emphasized.</p>					
PHE-135	Introduction to Climbing	1			
<p>In this course the techniques and challenges of climbing will be developed and enhanced through participation.</p>					
PHE-140	Concepts of Wellness	2			
<p>A consideration of contemporary health concepts as they apply to an awareness of personal wellness.</p>					

PHE-165	Principles/Problems of Coaching	3	PHE-235	Professional Experience I	1
<p>Required for coaching minor. A study of the many psychological and administrative aspects pertaining to coaching. Topics such as motivation, practice planning, budgeting, player/coach relations, team selection, morale, and strategy will be covered.</p>			<p>Placement of majors and minors in a professional setting in order to gain hands-on experience. The YMCA, YWCA, classroom, schools, PAL Club, camps, hospitals and other fitness facilities will be utilized in this course.</p>		
PHE-170	Introduction to Exercise Science	3	PHE-236	Professional Experience II	1
<p>A course designed to provide the student with an overview of selected topics in the field of Exercise Science. These topics include the benefits of physical fitness, fitness evaluation, exercise physiology, sport biomechanics, motor integration, exercise epidemiology, athletic training, sport psychology and nutrition.</p>			<p>A second placement in a professional setting to gain further insight into possible career opportunities and responsibilities. Evaluation will be by an on-site supervisor.</p>		
PHE-198	Health and Wellness for Women	2	PHE-240S	Officiating Softball	1
<p>Explores personal health, safe behaviors, and developmental milestones for women through the life cycle from menarche and puberty to aging and menopause. Empowers individuals to take part in their own health by increasing knowledge of women's health and self-awareness. In addition, investigates social issues related to women's health.</p>			<p>The techniques, methods, rules, mannerism of officiating softball. IHSAA certification.</p>		
PHE-210	Computers & Technology in Physical Education and Sport	2	PHE-240T	Officiating Track and Field	1
<p>A general course in the study of the latest computer and technology information as it pertains to Physical Education & Sport.</p>			<p>The techniques, methods, rules, mannerism of officiating track and field. IHSAA certification.</p>		
PHE-212	Health, Wellness & Individual Performance Assessment w/Lab	3	PHE-242	Elementary Physical Education	3
<p>Utilizing the philosophical framework of holistic health, this course provides an introduction to the principles and concepts essential to healthy living. A weekly laboratory component of the course will give students the opportunity to complete individual physical performance assessments on the five components of health-related physical fitness as well as non-physical assessments.</p>			<p>The objectives, organization, methods, and activities of elementary physical education. Special emphasis on the development of basic fundamental movement skills in small children will be studied and clinical experiences in a school setting is required as a part of this course.</p>		
PHE-225	Psychology of Sport and Exercise	3	PHE-242P	Elementary Physical Education Practicum	1
<p>The examination of psychological implications for sport, exercise, and injury.</p>			<p>This course provides a practicum experience for K-12 physical education majors in elementary-level classrooms in public or private schools. Students will observe an experienced elementary physical education teacher who will serve as the supervising teacher for the experience. Students will teach a minimum of 3 lessons in the elementary physical education classroom, and will be observed and evaluated by both IWU physical education and education faculty. Graded as a Credit/No Credit class. Co-requisite: PHE-242. Permission of the Division of Education to take this course in conjunction with EDU-382C.</p>		
PHE-229	Cardiopulmonary Resuscitation	1	PHE-248	Intercultural Studies in Physical Education and Sport	3
<p>A techniques course leading to CPR certification.</p>			<p>A comparison of different countries and their different approaches to physical education and sports are the core of this course. An extensive study of the Olympics and their role in history will also be studied. This course may also follow a study-tour format while in another country for sport and physical activity purposes. This course meets the general education intercultural requirement.</p>		
PHE-230	First Aid Basics	2			
<p>A standard first-aid course, taught by the multimedia approach, that includes knowledge and skills needed in emergency care of the injured and ill until medical care can be obtained. Also covers basic life-support techniques for victims of respiratory emergency and cardiac arrest. Qualifying students receive American Red Cross First Aid Certificate.</p>					

PHE-260	Health, Physical Activity, and Human Movement	3	PHE-276	Coaching of Soccer	1
<p>A study of the basis of the human body; its structure, systems, and functions. Aspects of this course include nutrition for healthy lifestyles, risks of inactivity, disease prevention and recognition, benefits of activity (physical, social, and psychological), and social forces as they relate to health. The course will introduce students to developmental activities, basic movement patterns, and motor skill development. Physically active lifestyles will be addressed as to their value in regard to individual differences, self-esteem, socialization, spirituality, and enjoyment. This course is designed primarily for Elementary Education majors.</p>			<p>The investigation and application of theory, techniques, skills, strategies, and administration of the sport of soccer.</p>		
PHE-261	Coaching of Baseball and Softball	1	PHE-282	Motor Development	2
<p>This course is designed to acquaint students with techniques, methods, rules, and strategies of coaching baseball/softball.</p>			<p>A course designed to help future professionals in their understanding of human motor development from conception to adulthood. Models and factors affecting motor development will be studied. The course will have applications to kinesiology, motor learning, adapted physical education, and both elementary and secondary education.</p>		
PHE-263	Coaching of Basketball	1	PHE-286	Kinesiology	3
<p>An introductory course to the different parameters involved in coaching the game of basketball. A strong foundation for coaching basketball will be presented. The course will encourage the development of a coaching philosophy, game strategies, and sound practice sessions.</p>			<p>The investigation and analysis of human movement, that will emphasize the anatomical concepts and physical laws related to joint and muscle action. Relationships between structure and function in accordance with general mechanical laws are also examined. Prerequisites: BIO-111 and BIO-112.</p>		
PHE-264	Principles of Strength and Conditioning	3	PHE-341	Team Sports	3
<p>This course will introduce students to the principles of strength and conditioning, including muscular strength and endurance, periodization, performance evaluation and program design, and prepare them to sit for the national Certified Strength and Conditioning Specialist (CSCS) exam.</p>			<p>Designed to build skill and understanding of techniques and strategy of team sports. Also covers teaching techniques and progressions for each sport.</p>		
PHE-265	Personal Training		PHE-345	Individual/Dual Sports	3
<p>This course is designed to prepare students for the National Strength and Conditioning Association Personal Trainer certification. There will be focus on exercise sciences, consultation and evaluation, exercise technique, program design, special populations and legal issues. A professional experience class may be attached to this course for further study.</p>			<p>Designed to build skill and understanding of techniques and strategy of individual and dual sports. Also covers teaching techniques and progressions for each sport.</p>		
PHE-274	Coaching of Track and Field	2	PHE-350	Ethics and Character Development in Sport	3
<p>An in-depth course offered for the understanding of several aspects of coaching track and field. Conditioning and skill development for specific events will be introduced. Other considerations will be given toward equipment, budgeting, and the individual nature of the sport. Varying roles of the track and field coach will be explained.</p>			<p>An extensive investigation of moral and ethical concepts, principles, and issues faced in the organization and administration of sport. The course is designed to help develop sound reasoning skills for the resolution of moral and ethical dilemmas. Emphasis will be placed on understanding how personal ethics affect organizational and personal responsibility. Special attention will be given to professional ethics in sport management, the establishment of a code of professional ethics, and applying this code of ethics to ethical issues in sport.</p>		
PHE-275	Coaching of Volleyball	1	PHE-352	Sport Law and Risk Management	3
<p>Proper techniques will be described for various volleyball skills. Drills for practice consideration will be introduced. Diagramming of various defensive and offensive alignments will be explained. The elements of equipment, scorekeeping, and volleyball statistics will be covered.</p>			<p>The course is designed to develop legal insight for effective management and the avoidance of legal problems associated with sport and recreational activity. Topics to be addressed include right to participate, liability for injuries, legal status of sports organizations, risk management, assertion of legal rights, and crisis management. Other areas of sport industry law to be covered are contracts, tort liability, negligence, gender equity, and sport labor relations.</p>		

PHE-354	Sports Management	3	PHE-375	Fitness Assessment and Exercise Prescription	3
<p>A thorough study of the principles of sports management. The processes of planning, organizing, staffing, directing, coordinating, reporting, budgeting, and overall evaluation will be thoroughly explored. Specific aspects of leadership, goal setting, communications, motivation, decision-making, and time management will be addressed. A survey of the careers and professional opportunities will be identified. Understanding of the structure and process of sport organizations will be outlined.</p>			<p>Introduction to physiological testing protocols and fitness evaluations performed in clinical and field settings. Focus is given to cardio-respiratory endurance, flexibility, muscular strength and body composition. Exercise prescription for healthy and various special populations (elderly, young children, and diseased) is also addressed.</p>		
PHE-362	Nutrition for Health	3	PHE-377	Physics of Sport Movement	3
<p>Emphasis on the relationship between diet and nutrition to healthful living. Topics include fad diets, nutritional deficiencies, effect on athletic participation, and consumer information.</p>			<p>Study of the laws of physics and computations applied to sport motion.</p>		
PHE-365	Public and Community Health	3	PHE-378	Tests and Measurements	3
<p>This course is offered for teachers, nurses, case workers, and other voluntary and public health agency personnel. It emphasizes the problem-solving approach through small-group interaction, case method, and critical incident techniques.</p>			<p>A foundations course in the instruments and procedures for the assessment and evaluation of human performance. Influences from hypothesis testing, statistical nature of individual differences, error, preparation and administration of tests of physical ability and specialized motor skills, and analysis of selected research studies in the field are considered during the course.</p>		
PHE-366	Alcohol and Drug Education	3	PHE-385	Psychology of Motor Learning	3
<p>A discussion of the major health problems of today. Drugs, sex, mental health, plus others are stressed to give a better understanding of some of the physical, emotional, and mental problems with which our entire student body will have to deal.</p>			<p>An examination of the learning of new and advanced motor skills for human performance. The principles of learning, practice, retention, motivation, and feedback will be explored.</p>		
PHE-370	Biomechanics	3	PHE-399H	Honors Thesis/Project	3
<p>The application of mechanical laws and principles to study the effects of internal and external forces acting on a human body including objects that are manipulated by the body.</p>			<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>		
PHE-371	Administration of Physical Education and Athletics	3	PHE-410	Wellness Internship	2
<p>An in-depth course in the organization and administration of physical education, intramural, and athletic programs. Particular problems of each program will be investigated and analyzed. The process of planning, organizing, staffing, coordinating, directing, reporting, budgeting, and evaluating will be an integral part of this course.</p>			<p>An on-site experience in a health club, clinic, sports center, wellness center, hospital, industry, or university. Any institution where a Wellness Program exists or is being developed will suffice if a leadership experience is available.</p>		
PHE-374	Physiology of Exercise	3	PHE-413	Health Promotion and Wellness Management	3
<p>The study of the effects of physical exercise upon the circulatory, neuro muscular, respiratory, digestive, and nervous system. Special emphasis is placed upon understanding the immediate and long-range adaptations of the body systems to exercise, limits, and work capacities in relation to age, sex, diet, environmental factors with the nature of activity as related to movement. Prerequisite: BIO-111.</p>			<p>A comprehensive course that addresses the planning, implementation, and evaluation of health promotion and wellness programs based on various wellness components including life-style, spirituality, nutrition, cardiovascular health, exercise fitness, stress, emotions, substance abuse, sexuality, health care, and mental wholeness.</p>		
			PHE-415	Nutrition for Sport and Performance	4
			<p>Application of sports nutrition concepts to those involved in sport and fitness activities. Nutritional demands of various types of physical activity will be discussed as well as the use of nutritional supplements and ergogenic aids for performance enhancement.</p>		

PHE-420	Sports Marketing, Promotion, and Fund Raising	3	PHL-180	Humanities Philosophy	3
<p>The application of fundamental marketing concepts to the sport industry will be presented. Sport will be discussed as a product and as a market. A second component of the course will provide basic techniques for program promotion. A comprehensive Public Relations plan will be developed. A final aspect of the course will be to present sound and positive practices leading to successful fund raising.</p>			<p>A study of philosophy within the seven major historical periods with primary consideration being given to outstanding thinkers and trends of thought such as rationalism, empiricism, idealism, realism, existentialism, and naturalism.</p>		
PHE-422	Sports Management Internship	3	PHL-280	Ancient and Medieval Philosophy	3
<p>An in-depth leadership experience related to the sports management field and/or industry. Field placement will be coordinated through the instructor.</p>			<p>A survey of the history of philosophy from the pre-Socratics to Bacon. Prerequisite: PHL-180.</p>		
PHE-423	Adapted Physical Education	3	PHL-281	Modern and Contemporary Philosophy	3
<p>Programs and prescription for atypical students in the physical education classroom will be discussed in relation to methods and activity needs.</p>			<p>A survey of the history of philosophy from Descartes to the present. Prerequisite: PHL-180.</p>		
PHE-470	Sports Ministry Internship	3	PHL-282	Ethics	3
<p>An in depth experience of leadership, observation, and contribution in a Sports Ministry setting. Placement will be coordinated and arranged in cooperation with the instructor.</p>			<p>A study of the fundamental ethical problems of the individual and society and a survey of the various fields of practical ethics. Prerequisite: PHL-180 or permission of department.</p>		
PHE-480	Senior Seminar in Health and Human Performance	2	PHL-283	Philosophy and Christian Thought	3
<p>A capstone course focusing on current issues, trends, topics, professional entry, and professional opportunities. Major specific.</p>			<p>A consideration of the doctrines held in common by the Christian church. The distinctive teachings held in the Wesleyan tradition will be noted.</p>		
PHE-483	Exercise Science Internship	4	PHL-285	Logic	3
<p>An on site experience, with an organization/association, that offers the student an in-depth exposure to several facets of exercise science. It is anticipated that the student will experience first-hand activities related to exercise prescription, fitness parameters, cardiac education, and other related human performance components. Placement will be coordinated with the course instructor.</p>			<p>The fundamental principles of classical and modern logic. An investigation of the basic principles of reasoning, both inductive and deductive. Not open to freshmen. Prerequisite: PHL-180.</p>		
PHE-485	Senior Seminar I	1	PHL-330	Philosophy and Theology in Film	3
<p>A course designed to provide the student with more advanced topics in the field of Exercise Science including an introduction to research and preparation for his/her career.</p>			<p>Realizing that the medium of film has become the principal mass vehicle for the transmission of philosophical and theological ideas, this course will study a variety of films with the intent to identify ontological, epistemological, and ethical presentations of both Christian and non-Christian world views. Prerequisite: PHL-180.</p>		
PHE-486	Senior Seminar II	1	PHL-334	Philosophy of Religion	3
<p>A course designed to provide the student with more advanced topics in the field of Exercise Science including an emphasis on research.</p>			<p>An investigation of the characteristics and significance of the nature of humanity and human religious experiences. Consideration will be given to the evidences for the nature of theism, the major challenges to the Christian faith, the persistent problems of naturalism versus supernaturalism, the existence of the non-Christian religions, and of evil in God's world. Prerequisite: PHL-180.</p>		

PHL-391	Directed Studies in Philosophy		PHY-140L	Astronomy Lab	1
<p>This course prepares students to perform basic research in which they learn to use Off Campus Library Services (OCLS), electronic periodical indexes, and information resources. Students will identify and select appropriate material for inclusion in a college level research project which will be submitted at the conclusion of the course.</p>			<p>This course is an optional lab which can ONLY be taken concurrently with PHY-140. Laboratory sessions will include several outdoor sessions, weather permitting, using IWU portable telescopes to observe and photograph craters on the moon, the planets Jupiter, Saturn, Mars and Venus, brighter nebula and star clusters. Other topics to be covered include the basic operation and handling of telescopes, use of celestial coordinates and setting circles, and an introduction to the visible constellations. The remaining labs will be performed indoors, incorporating laboratory studies of optics, spectral emission lines, Doppler shifts and other astronomy related topics. This course will fulfill the general education lab science requirement ONLY if it is taken concurrently with PHY-140.</p>		
PHL-430	Advanced Topics in Philosophy	3	PHY-211	General Physics I	4
<p>This course covers a specialized and advanced topic in philosophy that is not covered in the normal curriculum. It is always offered with a subheading and is repeatable under a different subheading up to 12 hours. Prerequisite: PHL-180 and junior or senior classification.</p>			<p>First part of a two-semester non-calculus introductory course in physics covering mechanics, thermodynamics (heat), and waves. Prerequisite: High school trigonometry or MAT-114. Co-requisite: PHY-211L.</p>		
PHL-438	Religions of the World	3	PHY-211L	General Physics Lab	0
<p>A careful study from the philosophical perspective of the great oriental religious systems and the more recent cults that have emerged from these systems. Comparisons and differences will be noted and their major influence upon their respective cultures will be assessed. Especially recommended for missionary candidates. This course may be counted toward an Intercultural major or minor. Prerequisite: PHL-180. Meets General Education intercultural requirement.</p>			<p>Lab to be taken as a co-requisite to PHY-211.</p>		
PHL-480	Toward a Philosophy of World Changing	2	PHY-212	General Physics II	4
<p>This capstone course for Religion and Philosophy majors will explore contemporary questions concerning the points of interface and tension of religion and philosophy with contemporary society. In a seminar setting, each participant will select and research a particular issue confronting society, synthesize insights gained in prior coursework, and explore possible ramifications and responses to this issue. Restricted to senior Religion and Philosophy majors.</p>			<p>Second part of a two-semester non-calculus introductory course in physics covering electricity, magnetism, optics, and topics in modern physics. Prerequisite: High school trigonometry or MAT-114. Co-requisite: PHY-212L.</p>		
PHY-120	Physical Science	4	PHY-212L	General Physics Lab II	0
<p>An introductory course in the physical sciences designed for the non-science major. Emphasis is placed upon understanding the major principles and concepts of the physical sciences. Mathematical skills are not emphasized. Co-requisite: PHY-120L. This course with its co-requisite laboratory fulfills the general education lab science requirement.</p>			<p>Lab to be taken as a co-requisite to PHY-212.</p>		
PHY-120L	Physical Science Lab	0	PHY-221	University Physics I	4
<p>Lab to be taken as a co-requisite to PHY-120.</p>			<p>Calculus-based introductory physics covering kinematics, dynamics, statics, introductory rotational motion, waves, harmonic motion, and basic heat and thermodynamics. Prerequisite or co-requisite: MAT-253 or equivalent. Co-requisite: PHY-221L.</p>		
PHY-140	Astronomy	3	PHY-221L	University Physics I Lab	0
<p>A descriptive survey of the basic concepts of astronomy. Topics to be studied will include the sun and its family of planets, the properties of stars and galaxies, and the structure of the known universe. Optional co-requisite: PHY-140L. This course with its co-requisite laboratory fulfills the general education lab science requirement (PHY-140 and PHY-140L taken concurrently).</p>			<p>Lab to be taken as a co-requisite to PHY-221.</p>		
			PHY-222	University Physics II	5
			<p>Calculus-based introductory physics covering electricity, magnetism, optics, and topics in modern physics. PHY-221 or equivalent. Co-requisite: PHY-222L.</p>		
			PHY-222L	University Physics II Lab	0
			<p>Lab to be taken as a co-requisite to PHY-222.</p>		

PHY-230	Electronics	4	PMD-110	Preparing the Christian Health Professional	1
<p>A study of the theory and application of transistors, integrated circuits, and other components of electronic circuits. Three class periods and one laboratory period. Prerequisite: High school trigonometry or MAT-114.</p>			<p>This course is designed to introduce the freshman pre-med student to a Christian perspective of a career in medical science. Emphasis will be placed on the Christian medical scientist's role as a "world-changer" by reconciling a Christian worldview with the requirements, demands, and dilemmas encountered in medical (graduate) school and in the practice of medicine. For the purposes of this course a "medical scientist" is defined as a person engaged in any of the following: medicine, dentistry, veterinary medicine, optometry, physical therapy, occupational therapy, biomedical research, or physician's assistant. This course is not intended for nursing or athletic training majors and does not fulfill any of the General Education requirements of the institution.</p>		
PHY-311	Analytical Mechanics	3	PMD-310	Perspectives in Scientific Reasoning	1
<p>In-depth study of the motion of rigid bodies. Three-dimensional translational and rotational motion. Oscillations. Lagrange equations. Inertial and non-inertial frames. Prerequisite: MAT-254.</p>			<p>This junior-level course is designed to integrate three of the major disciplines of science (chemistry, physics, and biology) in a meaningful way. The development of critical thinking and reasoning skills will be emphasized by studying and analyzing cross-disciplinary problems such as the application of principles of physics and chemistry in the human body. The course will be helpful in preparation for national tests such as the MCAT and VCAT, but also for those preparing for a career in general science education and health science administration. Prerequisite or co-requisite courses: BIO-125, CHE-125, CHE-126, CHE-235, CHE-236, PHY-211, PHY-212 (or PHY-221 and PHY-222).</p>		
PHY-321	Thermodynamics/Statistical Mechanics	3	POL-100	American Government	3
<p>Thermal equilibrium, thermodynamic equations of states. Thermodynamic potentials. Irreversibility. Phase transitions. Kinetic theory of gases. Introduction to classical quantum statistical mechanics. Prerequisite: MAT-254.</p>			<p>A study of American federal government in all its important phases with an introduction to the major fields of political science, including political thought, domestic politics, political economy, and international politics.</p>		
PHY-331	Electromagnetism I	3	POL-200	State and Local Government and Politics	3
<p>Electrostatic fields in vacuum. Gauss's law. Solution of electrostatic boundary-value problems. Electrostatic fields in material media. Electric currents. Electromagnetic waves. Maxwell's equations. Special relativity. Prerequisite: MAT-254.</p>			<p>A study of the design and operation of state and local government within the American federal system with an emphasis on practical issues, citizenship principles, and Christian involvement. Gives credit for majors in Criminal Justice, Political Science, or Social Work.</p>		
PHY-341	Waves and Optics	3	POL-215	Foundations of Political Science	3
<p>Geometrical and physical optics. Interference and diffraction. Lasers. Fiber-optics. Electromagnetic wave theory. Optical instruments.</p>			<p>This course provides a general introduction to the major concepts and themes of political science. As a comparative survey of the questions, approaches and methods in political science the course offers an analytical foundation for evaluating and explaining a wide variety of political phenomena. Throughout the semester several of the subfields comprising political science including American politics, comparative politics, world politics, law and public policy are introduced and highlighted to prepare students for upper-division coursework in these specific areas of study. All through the course consideration is given to determining how a Christian worldview can be applied to the complex realities of governing in modern societies.</p>		
PHY-351	Quantum Mechanics I	3			
<p>Wave-particle duality. Wave functions. Operators and observables. Matrix representation. Three-dimensional Schroedinger's equation. Prerequisite: MAT-254.</p>					
PHY-361	Introduction to Health and Medical Physics	3			
<p>Introduction to the use, detection, and disposal of radioisotopes in medicine and biological research. Biological effects of radiation, including from nuclear weapons. Introduction to different imaging techniques in medicine, such as X-ray and MRI. Applications of lasers in medicine.</p>					
PHY-385	Advanced Physics Laboratory/Measurements	4			
<p>Theory of measurements, detectors, interfaces, error and accuracy analysis, data acquisition, and processing. Laboratory application of a design of an experiment and experimental apparatus and measurements of physical quantities.</p>					

POL-220	Issues in Political Science	3	POL-322	Research Design and Methods in Political Science and Economics	3
<p>This course is designed to guide students in the exploration of a selected contemporary or historical issue in the field of political science.</p>			<p>This course will provide students with an introduction to research methods and statistical techniques used in social science research, particularly in the fields of economics and political science. This will include basic knowledge of the concepts and models employed for conducting experimental research, policy analysis and program evaluation, and unobtrusive research from data sets. Emphasis will be placed on using and applying the qualitative and quantitative techniques most widely utilized in social science research. This course gives credit for political science and history majors. Prerequisite: MAT-112 or BUS-320.</p>		
POL-230	World Politics	3	POL-332	Conflict Processes	3
<p>The purpose of this course is to introduce the study of world politics. By surveying the key concepts and theories utilized to assess contemporary global affairs this course provides a framework for analyzing world politics in a systematic and sophisticated manner. Course topics will provide a brief overview of the major areas of study within the field of international relations including foreign policy analysis, global politics and governance, international political economy and the continuing evolution of the international system.</p>			<p>The purpose of this course is to cover a variety of theoretical and ethical approaches to the problem of understanding international conflict. Strong emphasis will be placed on the evaluation of the empirical literature attempting to explain the causes of war and peace. Historical continuity and change in international conflict will be examined via the analysis of a variety of case studies of global, regional and intrastate war. By combining a theoretically sophisticated understanding of the causes, results, and resolution of conflict, coupled with concerns about the moral justification of war, students will emerge prepared to formulate thoughtful, concrete opinions on issues of global conflict. Prerequisite: POL-230.</p>		
POL-232	Comparative Politics	3	POL-350	Political Science Practicum	
<p>This course surveys the most important concepts, approaches and methods in the comparative study of politics. Students are introduced to comparative politics as a method of research and a field of study examining the domestic politics of governments throughout the world. Course material discusses and applies the conceptual, theoretical and methodological tools of comparative political analysis, examines the characteristics and effects of various types of contemporary political systems, and surveys the politics of and recent trends in select countries and regions throughout the world.</p>			<p>Directed experience in politics or law. Required of all Political Science majors. (POL-371, POL-401, or HST-450 may be substituted for this requirement.) May be repeated. Prerequisite: Consent of the department. Offered every semester.</p>		
POL-240	Public Policy Processes	3	POL-354	Foreign Governments	3
<p>This course is an introduction to public policy processes in the United States. An important part of the course involves helping students to develop the potential to formulate, assess and evaluate public policy in terms of ideas, actors, and steps, and to begin to develop expertise in policy in issue areas of concern to them. The course is also intended to develop students in analytical thinking, primary and secondary research, and social science writing.</p>			<p>A study of historic and contemporary types of governments in relation to their social, economic, and ideological backgrounds. Prerequisite: HST-185 and HST-190 or POL-100.</p>		
POL-275	Pre-Law Tutorial Study		POL-355	American Political Processes	3
<p>Directed personalized study to prepare Pre-Law students for the Law School Admission Test (LSAT). Required each semester for all Pre-Law students. May be repeated for credit for up to three credits. Prerequisite: Consent of the department.</p>			<p>The purpose of this course is to examine the various political processes and linkages that connect citizens to political outcomes. Course content will focus on theoretical frameworks from political scientists regarding the formation, nature, and function of political parties, interest groups, and political action committees. The primary focus will be on current scholarship, including both books and journal articles from respected scholars in the field of Political Science. However, students will also be introduced to important works by political scientists that date back to the 1950s. The course format is a combination of lecture and discussion; therefore, relevant questions and other student contributions are an essential element of the course. Prerequisite: POL-215.</p>		
POL-291	Introduction to Law	3			
<p>Designed to give a basic understanding of law. The legal process is examined including a study of the fundamentals of criminal and tort law, law enforcement, society and the law, contracts, agency, and employment law. Gives credit for majors in Political Science or Criminal Justice. Prerequisite: POL-100 or CRJ-181.</p>					

POL-360	Policy Formation	3	POL-401	Political Science Travel Seminar	3
<p>This course is intended as an inquiry into the process of policy formation at the national level in the U.S., in the developing country context, and at the transnational (international, multilateral) level. The emphasis will be on social and environmental policy, with some discussions of other issue areas. Prerequisites: POL-100 and POL-240 or consent of department.</p>			<p>Travel course to Washington, D.C., designed to provide students with a greater understanding of the American governmental and political infrastructure . Extra fee: travel, lodging, meals, and miscellaneous. Prerequisite: Consent of the department.</p>		
POL-365	Religion and Politics	3	POL-420	American Institutions	3
<p>The purpose of this course is to provide an in-depth analysis of the connection between religion and politics. The course will explore some historical examples demonstrating various relationships between Church and State. The place of Christianity and/or involvement of the institutional church with government is central; however, students will examine other religions and political arrangements to see if there are universal principles. Course content will focus on scholarly research in these and related areas. This course is designed for Political Science and History majors, but also will have strong relevance and appeal to Religion and Education majors. Prerequisite: POL-100 or consent of department.</p>			<p>The purpose of this course is to provide an advanced study of the institutions of American government. The formal political institutions include: the presidency, Congress and federal courts (Supreme Court). The course examines the interrelationship and interactions among these three political institutions, with particular emphasis on institutional approaches, development, and structure. The course will also explore some of the foundational mechanisms that provide support for the formal institutions, including voting, federalism, and religion. Course content will focus on scholarly research in these and related areas. This course will provide both a broad overall conception of the current field of Political Science, as well as major areas of specialization. Prerequisite: POL-215.</p>		
POL-367	Political Thought	3	POL-425	Federalism and Public Policy	3
<p>A survey of political thought from ancient systems to modern totalitarianism. Emphasizes Christian and modern Western-American political theory and systems. Gives credit for majors in Political Science or Philosophy. Prerequisite: HST-185 and HST-190; or POL-100.</p>			<p>This course is designed to understand different federal contexts for policymaking and policy implementation from Africa, Asia, Australia, Europe, the Middle East, and North & South America. The primary objective of the course is to help students understand the relationship between federalism and democracy as the growing debate about the future of democratic governance in a globalizing world is increasingly cast in federal terms. Prerequisite: POL-100 or permission of the department.</p>		
POL-371	International Studies	3	POL-432	Global Governance	3
<p>International travel, observation, and study of the political patterns of foreign nations. Extra fee: air travel, lodging, meals, and miscellaneous. May be repeated. Prerequisite: Consent of the department.</p>			<p>This course is an advanced survey of the norms, institutions and processes increasingly constituting some type of governance at the global level. Students will be acquainted with the knowledge and analytical tools needed to cope with an increasingly complex and interconnected global system. Towards this end, the course introduces the key dimensions, actors and nature of global governance; identifying the most significant concepts and theoretical approaches to understanding global rule. The course also addresses the various debates about global governance and explanations for the increasing demands in global governance structures. Prerequisites: POL-230 and POL-232.</p>		
POL-375	Foreign Policy Analysis	3	POL-470	International Relations Capstone	3
<p>This course examines the way international actors make decisions regarding how they will interact with other members of the international community. Students will be introduced to the variety of ways in which the foreign policy making processes within and across countries operate and can be explained. A number of influences on foreign policy are discussed, including individual policy makers, characteristics of the domestic political environment, and international systemic factors. The course surveys these influences, concepts and theoretical approaches in preparation for the in-depth and hands-on analysis students will undertake in the later part of the semester. Prerequisites: POL-230 and POL-232.</p>			<p>This is an advanced seminar in the methodological study of political phenomenon. Students will enhance their research, analysis and critical thinking skills through practical experience in the process of scholarship. As a capstone experience students will plan, research and write a scholarly research piece addressing an empirical puzzle relevant to their interests. The course is highly recommended for students pursuing graduate education. Prerequisite: Upper-division Status.</p>		
POL-399H	Honors College Thesis-Political Science	3			
<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>					

POL-470H	International Relations Capstone Honors College Thesis	3	PSY-225	Learning and Motivation	3
<p>This is an advanced seminar in the methodological study of political phenomenon. Students will enhance their research, analysis and critical thinking skills through practical experience in the process of scholarship. As a capstone experience students will plan, research and write a scholarly research piece addressing an empirical puzzle relevant to their interests. The course is highly recommended for students pursuing graduate education. Prerequisite: Upper-division Status.</p>			<p>The major goal of the course is that the student understand the basic principles of conditioning, motivation, and learning derived from experimental research. Students will be encouraged to see the ready application of those principles to the human context in everyday life with numerous illustrations of the application of these principles to the field, to business settings and to therapeutic situations. Course topics may provide an overview of on going research within experimental, cognitive, behavioral, and biological psychology. Offered May Term.</p>		
POL-471	Political Science Research Seminar	3	PSY-227	Adv.Topics in Behavioral, Cognitive, and Neuropsychological Research	3
<p>This is an advanced seminar in the methodological study of political phenomena serving as a cumulative and integrative capstone experience. Students will enhance their research, analysis and critical thinking skills through practical experience in the process of scholarship. As a capstone experience students will design, research and write a scholarly piece addressing an empirical puzzle relevant to their interests. Prerequisite: POL-215 and POL-322 or consent of the department.</p>			<p>The course is the alternative to PSY-225 for students in the pre-professional track within the psychology major, and planning on pursuing graduate studies in the field. Course topics will provide a more in-depth and rigorous overview of the current state of the science with respect to ongoing research in various topics within experimental, cognitive , behavioral, biological and neuro-psychology. Computer-based labs and demonstrations will be included and required for all of these research domains, with an emphasis on emerging areas of application and clinical specialization for psychology career professionals. Students will also be asked to consider the implications of these areas of scientific research on their Christian perspective in psychology. Students may substitute PSY-227 for PSY-225 or they may earn credit in both. Offered May Term.</p>		
PSY-150	General Psychology	3	PSY-250	Developmental Psychology	3
<p>Students will be introduced to the basic schools of thought within the field of psychology. Four major aspects of psychology will then be considered: (a) theories of personality and human development, (b) stress and adaptation, (c) interpersonal relationships and (d) psychopathology and therapy. These concepts will be explored in the light of research, personal experience, and a consideration of Biblical principles that apply to the study of human behavior. Throughout this introductory overview of the field, students will be assessed in, reflect upon, discuss, and write about the insights gained about themselves.</p>			<p>A survey of human development and changes throughout the life cycle. Prerequisite: PSY-150.</p>		
PSY-152	General Psychology II	3	PSY-251	Child Development	3
<p>This course exposes psychology majors to psychology's scientific methods, biological foundations of human behavior, sensation and perception, states of consciousness, memory, thinking and language, intelligence, and motivation and emotion. Prerequisite: PSY-150.</p>			<p>The development and characteristics of the child at various stages of his physical, social, and mental growth as it relates to the principles of the learning process and methods of measurement and evaluation. Problems of prediction, guidance, and control of child behavior will be explored. Prerequisite: PSY-150.</p>		
PSY-155	Personal Adjustment	3	PSY-252	Adolescent Growth and Development	3
<p>This course encompasses a study of stress management and coping skills, the factors that contribute to self-esteem and the maintenance of healthy interpersonal relationships, and the skills required for successful conflict resolution. The course will focus on strategies for developing and maintaining positive mental health. A theoretical framework is presented with a strong emphasis on practical application.</p>			<p>Emphasizes mental, physical, and personality development of the individual during the transitional years from childhood to maturity as it relates to the principles of the learning process and methods of measurement and evaluation. Prerequisite: PSY-150.</p>		
PSY-210	Introduction to Art Therapy	3	PSY-276	Psychology of the Exceptional Learner	3
<p>Designed to acquaint the Pre-Art Therapy major with practices and opportunities offered in this field. Offered alternative Spring Terms.</p>			<p>This course will explore the needs of children who differ in cognitive-academic, social-emotional, physical-sensory characteristics. (Required for all Education majors.)</p>		
			PSY-290	Psychology Seminar	1
			<p>Introduction to career options within the field of psychology. Includes career testing, screening, and preparation for department interview. Offered Fall Term only.</p>		

PSY-385	Psychology Practicum		PSY-490	Senior Capstone	1
<p>This course is designed to provide students with opportunities to learn about psychology through service in a community agency. Eighty hours of volunteer experience will be acquired over two semesters (40 hrs per) or in one semester. And this course requirement can be fulfilled through ADC-461-464 or SWK-370-371 or SWK-470-471.</p>			<p>Completion of personal assessment portfolio compiled from several courses in the major. Will include integration papers. Instruction on preparing for the GRE and applying for graduate school or placement.</p>		
PSY-390	Psychology Seminar	1	PSY-493	Integration of Psychology and Christianity	3
<p>Papers, lectures, and group discussion of scientific and professional topics by staff and visiting lecturers. Two semester hours required of all majors in Psychology. May be repeated to earn up to 4 hours credit. Sophomore Seminar is for students planning to apply for the major and is not included in the two required seminars.</p>			<p>A study of integration models and a conceptual framework for integrating psychological research and the Christian faith. Examination of the potential tensions and resolutions in integrating psychological and Christian approaches to understand the nature of man, mental illness, development, and counseling. Will consider the nature of religious experience, conversion, the meaning of religious images, the significance of individual difference in religious faith, and other pertinent topics in the psychology of religion. Prerequisite: 12 hours in Psychology and/or Religion (exclusive of General Education courses).</p>		
PSY-399H	Honors Thesis/Project	3	PSY-495	History and Systems of Psychology	3
<p>Students will work under a faculty mentor in their major and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>			<p>A study of the historical foundations of psychology and its development as a distinct discipline. Consideration will be given to the major concepts and personalities of the various systems of psychological thought. Limited to seniors; enrollment only by permission of instructor.</p>		
PSY-471	Faculty/Student Collaborative Research Psychology: Research		REC-160	Introduction to Recreation	3
<p>Experience through individual projects involving design, execution, analysis, and reporting individually initiated research. Prerequisite: Permission of instructor. May be repeated.</p>			<p>The foundations of organized recreation will be highlighted. These will include: backgrounds and theories, objectives and principles, social and economic factors, public, private and commercial interests, general recreation, and social institutions.</p>		
PSY-473	Supervised Practicum		REC-180	Recreation Games and Intramural Sports	3
<p>Practical experience in social agencies and other counseling settings. May be repeated.</p>			<p>The recreation games portion of the course will include ice breakers, social mixers, quiet games, table games, and group activities. The intramural sports portion of the course will explore the planning, organization, and the overall administration of an intramural program.</p>		
PSY-475	Special Topics		REC-240	Trip Camping in the USA	2
<p>In-depth literature search and analysis of specified topic. May be repeated.</p>			<p>A camping experience to and in various Parks and Forests (or similar settings) within the USA. The course focus will be on practicing environmentally conscious camping skills, hiking, climbing, and fishing. A fee will be charged for this course.</p>		
PSY-485	Theories of Counseling	3	REC-260	Recreation Leadership and Programming	3
<p>Surveys various approaches to counseling with emphasis on philosophy underlying the theory. Senior majors begin to write their own theory of counseling as part of this class. Prerequisites: Full admission to the psychology major and 18 hours of psychology. Offered Fall semester.</p>			<p>Principles of leadership and their application in the development of recreation programs. The principles of program planning as it relates to the individual and group values, which includes the selection of activities and their presentation in a sequential pattern, which is concerned with interests, age, handicaps, area skill level, time, group size, and value determination.</p>		
PSY-487	Techniques of Counseling	3			
<p>Students will be exposed to many techniques used in counseling to facilitate client change and growth. Role-playing and some supervised "hands on" experiences give students practical experience. Prerequisites: PSY-485, full admission to the psychology major, and taken in sequence after PSY-485. Offered Spring semester.</p>					

REC-280	Commercial and Social Recreation	3	REC-405	Clinical Aspects of Therapeutic Recreation	3
<p>This course deals with the private sector of recreation opportunities. Those include industrial corporations, establishment of private corporations, profit and nonprofit camps, sports clubs, and the use of public land by private endeavor. Also social recreation will be explored as an opportunity to enhance recreational goals through social interactions.</p>			<p>This class will provide an overview of the impairments most commonly worked with in therapeutic recreation. Students will be presented with knowledge of impairments; functional, leisure education and participation programs most effective for each population; and specific communication and leadership skills to employ. The class will also focus on the management issues related to therapeutic recreation in clinical settings.</p>		
REC-370	Therapeutic Recreation and the Aged	3	REC-410	Recreation Internship	2
<p>The delivery of therapeutic recreation services for the elderly requires a thorough knowledge of the unique physical, cognitive and psychological needs of the aged individual. This course examines the activity needs of elderly persons particularly the vulnerable, infirm or disabled individuals who may require rehabilitative and/or supportive maintenance activities. Students will explore a variety of therapeutic activities that can be utilized to reach treatment and rehabilitation goals.</p>			<p>On-site experiences with an agency which delivers leisure services. This may include public recreation park agencies, voluntary agencies (youth serving agencies), U.S.O., American Red Cross, armed forces (civilian position with military services), correctional institutions, industries, recreation for the ill and handicapped (including hospitals), and college unions.</p>		
REC-380	Camp Management	3	REC-450	Recreation Administration	3
<p>This course will explore the intricacies of managing and supporting the various requirements needed to oversee the professional operation of various types of camps.</p>			<p>Development of approaches to deal with staffing, planning, organization, coordination, evaluation, and directing programs and personnel in the public sector of recreation.</p>		
REC-382	Camp Counseling	3	REC-460	Facilities: Design, Planning, Maintenance, and Scheduling	3
<p>This course is designed to cover the multiple roles that a student must face as a Camp Counselor. It will be structured with applications for both the day camp and the residential camp settings. The course will accommodate students employed in a camp setting as well as the resident student. A fee may be required.</p>			<p>An in-depth exploration into planning, design, construction, equipping, and managing a variety of recreation and/or sport facilities. Facility scheduling/programming will also be addressed.</p>		
REC-385	Challenge Education	3	REC-472	Therapeutic Process, Protocols & Facilitation Techniques in Leisure	3
<p>This course will introduce the student to adventure learning and attempt to incorporate Biblical principles and appreciation of God's creation with challenge education. Environmental concerns, programming and facilitating, plus hardware and safety orientation will be explored.</p>			<p>This class will introduce the student to the therapeutic recreation process for individual clients as well as the process of developing program protocols for various therapeutic recreation facilitation techniques. Students will use case studies to learn assessment, treatment planning, documentation and evaluation methods. Students will also develop program protocols for various facilitation activities. Students will also be required to observe, participate in and critique programs for the disabled. Emphasis throughout the class will be on leisure education and functional therapeutic recreation programs.</p>		
REC-390	Introduction to Therapeutic Recreation	3	REC-480	TRS Internship	3
<p>Therapeutic recreation has become a rapidly growing and dynamic field. It has shifted its emphasis from the hospital setting to a broader concern with the disabled in the community. Recreation therapists work closely with medical, social service and other rehabilitation personnel to provide a total continuum of services. This course provides an introductory overview of the therapeutic recreation profession, the delivery service models, and necessary communication and interpersonal skills for students desiring a career in this field.</p>			<p>An internship experience dealing with special population and their leisure pursuits. This placement must be under the direction of a Certified Recreation Therapist.</p>		
REC-399H	Honors Thesis/Project	3	REL-112	Theological & Theoretical Foundations of Cross-Cultural Ldrship. Dev.	2
<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>			<p>This course trains intercultural workers in key issues and strategies for developing church leaders within American ethnic populations and the overseas church as well as how to create an environment for unleashing their God given gifts. The difference between men and women in positions of leadership and managerial styles will be explored from a cross-cultural perspective.</p>		

REL-205	The Pastor's Wife Today	3	REL-235P	Worship Practicum	1
<p>A survey of the challenges and opportunities available to women married to ministers. The course will emphasize personal growth, marriage fulfillment, home management, and church relations.</p>			<p>Each student will be involved in practical experiences in a local ministry setting providing the student with a "laboratory" for the application of the principles of Christian worship as taught in the co-requisite course. Co-requisite: REL-235.</p>		
REL-207	The Role of Women in Ministry	3	REL-241	Survey of Church History	3
<p>This course examines the various roles which women have traditionally served in ministry. It also explores the changing role of women in ministry and seeks to anticipate the shape of women's ministries in the future.</p>			<p>A survey of the major events, persons and ideas of the Christian community from the Apostolic age to the present. Special attention will be given to the Reformation era and the history of American Christianity. Christian Ministries majors should enroll in the two-semester sequence REL-331 and REL-332 rather than this course which is designed for other majors and general studies.</p>		
REL-225	American Religious Issues	3	REL-264	Introduction to Pastoral Ministries	2
<p>Religion has played a central role in the shaping of America. Students will explore issues such as the following: Religion in 21st Century America: Is America still religious?; American Churches: Where did all the churches come from?; World Religions in America: How do the religions get along in America?; Pivotal People, Ideas, and Events: What were the Great Awakenings and why do they matter?; Finding God in America: Where is God in America?</p>			<p>This course provides an introduction to professional ministry as a life's calling and vocation. It gives special attention to personal spiritual development, acquisition of personal ministry skills, an understanding of the ministry as a profession, the requirements and expectations of various denominations for ordination and lay vocations. The course also explores the meaning of calling, vocation and profession from historical and contemporary perspectives, leading toward the development of the initial skills and attitudes toward becoming a professional minister. Co-requisite: REL-264P.</p>		
REL-226	Christian Spirituality: Experiencing God	3	REL-264P	Pastoral Ministries Observation	1
<p>An introduction to personal spiritual formation, including spiritual health and the practice of spiritual disciplines. Includes an off site weekend retreat. Fee required.</p>			<p>Each student will be involved in practical experiences observing ministry, "shadowing" a minister and interviewing professional clergy in a local setting providing the student with a "laboratory" for the application of ministry principles taught in the co-requisite course. Co-requisite: REL-264.</p>		
REL-228	Defending the Christian Faith	3	REL-275	Evangelism and Global Outreach	3
<p>This course is designed to help Christians meet the Biblical imperative to "always be prepared to give an answer to everyone who asks you to give the reason for the hope that you have" (1 Peter 3:15). Students will examine some of the latest historical, philosophical, and scientific evidence that can be used to bolster arguments in favor of the Christian faith.</p>			<p>Beginning with biblical times, this course examines the history of missions and outreach movements. Attention is given to both the historical patterns which shaped outreach endeavors as well as the several methodologies which have been and are being used by various outreach organizations. Co-requisite: REL-275P. Meets General Education intercultural requirement.</p>		
REL-232	Basic Christian Doctrine	3	REL-275P	Evangelism and Global Outreach Practicum	1
<p>This course presents the basic doctrines of the Christian faith for students desiring a brief introduction to Christian doctrine. The Apostles' Creed provides the outline for an overview of the basic tenets of the Christian beliefs. Evangelical perspectives are explained and compared with other traditions.</p>			<p>Each student will be involved in practical experiences in a local ministry setting providing the student with a "laboratory" for the application of the principles of evangelism and global outreach as taught in the co-requisite course. Co-requisite: REL-275.</p>		
REL-235	Worship	2			
<p>This course examines the biblical, historical, and theological foundations of Christian worship and rituals in order for each student to derive a practice of worship which is culturally relevant yet rooted in the rich tradition of the ages. This course moves from theory to practice with actual preparation for leading worship. Co-requisite: REL-235P.</p>					

REL-431	Wesleyan Church History/Discipline	3	REL-466P	Homiletics Practicum	1
<p>A study of the history of The Wesleyan Church from its roots in the ministry of John Wesley through the development of early American Methodism and the American holiness movement to the emergence of the Wesleyan Methodist Church and the Pilgrim Holiness Church, their merger in 1968, and the subsequent progress of The Wesleyan Church. Further, a study of the form of church government which has evolved during the history of The Wesleyan Church as it is defined in the current book of Discipline. Open to juniors and seniors.</p>			<p>Each student will be involved in practical experiences in a local ministry setting providing the student with a "laboratory" for a preaching and teaching ministry with opportunity for gathering feedback and developing a personal plan for improvement. Co-requisite: REL-466.</p>		
REL-442	Christian Theology II	3	REL-468	Church Leadership	3
<p>A comprehensive study of the fundamental doctrines of the Judeo-Christian Scriptures from an evangelical Arminian viewpoint with other interpretations considered. The first semester will entail a study of theism, theology, cosmology, anthropology, hamartiology, and Christology. This course will embrace a study of soteriology, pneumatology, ecclesiology, and eschatology. In the College of Arts and Sciences, open to juniors and seniors.</p>			<p>A study of the principles of leadership for the pastor or other professional Christian workers in relation to local churches or other Christian organizations. Each student develops personal skills in self-management, budgeting, planning, organizing, recruiting and supervising volunteers, discerning vision for a ministry and leading deliberative bodies. Open to juniors and seniors who have been admitted to the Christian Ministries major or by permission of the instructor. Co-requisite: REL-468P.</p>		
REL-455	The Practice of Spiritual Care Across The Lifespan	3	REL-468P	Church Leadership Practicum	1
<p>This course explores the spiritual care of humans across the span of life. The aim will be to understand and practice God's care applied across the family life cycle as partners together in his work. Selected experiential or virtual learning will be included in this course. Prerequisite: REL-232 or REL-233</p>			<p>Each student will be involved in practical experiences in a local ministry setting providing the student with a "laboratory" for the application of leadership and management principles taught in the co-requisite course. These experiences include observation of the leadership practices of a professional minister, practice in leading groups and deliberative bodies, and participation in other leadership activities such as budgeting, planning, organizing, recruiting and supervising volunteers, and leading deliberative bodies. Co-requisite: REL-468.</p>		
REL-465	Homiletics I	3	REL-469	Pastoral Care and Counseling	3
<p>A comprehensive study of the types of sermons and the principles of construction and delivery. The minister's call and preparation of his life's work will be considered. Original sermons are prepared, and some of them are delivered before the class under the supervision of the instructor with critiques and suggestions for improvements. During the second semester, the class will basically be conducted as one class period and two laboratory periods. Open to juniors and seniors. Limited to majors and minors in the Division of Religion and Philosophy unless permission is granted by the Division. Prerequisite: BIL-202.</p>			<p>A study of the biblical framework and various theories of pastoral counseling. There will be a heavy emphasis on self-understanding as a prerequisite of effective counseling. The course will cover most of the typical counseling problems faced by the local pastor, including pre-marital counseling, hospital visitation and grief counseling. Only open to Juniors and Seniors. Co-requisite: REL-469P.</p>		
REL-466	Homiletics II	2	REL-469P	Pastoral Care Practicum	1
<p>A comprehensive study of the types of sermons and the principles of constructing and delivering expository sermons. Original sermons are prepared, and some of them are delivered before the class under the supervision of the instructor with critiques and suggestions for improvements. Prerequisite: Open to juniors and seniors who have been admitted into the Christian Ministries, Christian Education, or Youth Ministries major. Prerequisite: REL-465 or YTH-270. Co-requisite: REL-466P.</p>			<p>Each student will be involved in practical experiences in a local ministry setting providing the student with a "laboratory" for the application of pastoral care and counseling principles taught in the co-requisite course. Co-requisite: REL-469.</p>		
			REL-480	Ministry Internship	
			<p>This course allows the student to be directly involved in the life and flow of a local congregation with set times for guidance, evaluation and reflection by the primary mentor and by other appropriate church leaders. This internship requires an equivalent of 40 hours of ministry each week, which may include study and research time needed for this course. 4-7 week experience: 3 hours; 8-11 week experience: 6 hours. This course may be repeated for credit. Prerequisites: Open only to Juniors and Seniors. Students must have taken REL-264 and must have permission of instructor.</p>		

REL-481 Ministry Expansion and Church Planting 3

This course focuses on the dynamics of church outreach with special attention given to church planting. It examines strategies for helping the church multiply its ministries with the direct aim of replicating itself in order to widen and deepen the impact of the church in the community.

REL-482 Christian Ministries Capstone 2

This capstone course for the Christian Ministries major will explore how those involved in full-time Christian ministry can effect change in their parish settings and mobilize the laity to become salt and light to the world. Each student will present a project of her/his own design to the class for evaluation. Restricted to seniors who have been admitted to the Christian Ministries major.

REL-483 Biblical Studies Colloquium 3

A reading and writing intensive course in the study of Biblically-oriented topics that serves as a capstone experience for Biblical Studies students. Topics may reflect contemporary issues or research in the wider discipline. Prerequisite: accepted in the Biblical Studies Program or permission of the Department.

REL-498 Religion/Philosophy Honors

Advanced independent studies. Prerequisite: Junior or senior standing with a 3.0 GPA.

SCI-201 Integrate Earth/Life Science (with Lab) 4

This course will provide the Elementary Education major with an integrated approach to the critical thinking skills and content of both biology and earth science. While this course is designed to be a survey of the interactions between the earth and the life forms that inhabit it, special emphasis will be given to Christian stewardship, ethics, and the underlying principles necessary to conduct activities within the life and earth sciences. Lab included. Open only to Elementary Education majors.

SCI-380 Impacts of Science on Faith and Society 3

This course will provide an overview of the history and philosophy of science and how our concepts of the physical universe affect our worldview. Emphasis will be on how understanding of science has impacted religion, philosophy, and western culture, as well as how religious convictions and philosophy have affected science. Several key developments of modern science will be discussed, including quantum mechanics, relativity theory, evolution, and genetic engineering. Several different worldviews will be discussed and students will be formulating their own worldview. Prerequisite: A lab science or permission of the Science Division and a basic understanding of philosophy and religion. This course meets general education science credit.

SCI-391 Directed Studies in Science

This course prepares students to perform basic research in which they learn to use Off Campus Library Services (OCLS), electronic periodical indexes, and information resources. Students will identify and select appropriate material for inclusion in a college level research project which will be submitted at the conclusion of the course. (1 or 2 credit hours)

SOC-150 Principles of Sociology 3

An introductory analysis of the individual in culture and society, using a biblical framework.

SOC-152 Social Problems 3

A study of issues in contemporary American society which are examined from a sociological perspective including crime, poverty, violence, racism, and sexism.

SOC-170 Aging in America 3

A study of the elderly in American society. Topics include theories of aging, health care, living environments, recreation and leisure, and death and dying.

SOC-200 Marriage and Family 3

A social scientific and Christian analysis of the social institution of family. Topics include, but are not limited to, dating, marriage, planning a family, child-rearing, and threats to the family.

SOC-210 Minority Group Relations 3

An analysis of dominant-minority group interaction with special emphasis given to Native American, African-American, Hispanic-American, and Asian-American minorities in our society. Meets intercultural requirement.

SOC-225 Cultural Anthropology 3

An introduction to cultural anthropology which seeks to expose students to different cultures of the world as well as help them to appreciate cultural diversity. An excellent orientation course for those who will be working in cross-cultural contexts.

SOC-246 Criminology 3

A study of crime and delinquency as social phenomena. Theories of causation, methods of correction, and prevention of crime are included in the study. Gives credit for majors in sociology and criminal justice. Prerequisite: SOC-150.

SPA-348	Latin American Studies	3	SPA-399H	Honors Thesis/Project	3
<p>A study of the geography, history, and culture. Assigned readings and reports. Prerequisites: SPA-237 and SPA-238.</p>			<p>Students will work under a faculty mentor in their major and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>		
SPA-354	Latin American History	3	SPA-420	Advanced Spanish Grammar	3
<p>The history from discovery to the present of the twenty republics constituting Latin America. Collateral reading and reporting in Spanish. Prerequisites: SPA-237 and SPA-238, or equivalent.</p>			<p>A review, practice, and assessment of Spanish grammar at the advanced level according to ACTFL guidelines. Required for Spanish Education majors. Prerequisite: SPA-347.</p>		
SPA-357	Spanish Linguistics and Phonology	3	SPA-457	Survey of Spanish Literature	3
<p>A study of Spanish phonology, morphology, syntax, and semantics and their practical application to understanding and speaking Spanish, including a study of dialectical differences of American and Peninsular Spanish. Required for Spanish Education majors. Prerequisite: SPA-347.</p>			<p>A study of the development of Spanish literature. Readings from major works of prose, poetry, and drama.</p>		
SPA-360	Technology and Assessment in the Foreign Language Classroom	2	SPA-458	Survey of Spanish American Literature	3
<p>A study of current theory and practice of technology and assessment in the foreign language classroom, with emphasis on their practical application. Meets the general objectives of EDU-200, but is specifically designed to prepare the foreign language teacher. Required for Spanish Education majors. Prerequisite: SPA-347.</p>			<p>A study of the development of literature in Spanish America from the Colonial period to the present.</p>		
SPA-370	Hispanic Culture and Language Studies	3	SPA-461	Contemporary Spanish Literature	3
<p>Travel course to a Spanish-speaking country, designed to inform students about the history and culture of the nation while gaining an appreciation for the people and the language. Opportunities to use Spanish in a variety of settings. Fees for travel, lodging, and meals are extra. May be repeated.</p>			<p>Intensive study in contemporary Spanish and Spanish American literature.</p>		
SPA-371	Hispanic Culture in the U.S.	3	SPA-462	Spanish Short Stories	3
<p>A study of the migration of the Hispanics to and within the U.S. A look at the influence the Hispanic culture has had and is having on the American culture.</p>			<p>A study of Spanish and Spanish American short stories for advanced students.</p>		
SPA-372	Culture and Civilization of Spain	3	SPA-470	Senior Seminar	1
<p>An historical and sociological survey of the people, culture, and customs of Spain through lectures, readings, discussions, and multimedia. Required for Spanish Education majors. Prerequisite: SPA-347.</p>			<p>Designed to assist Spanish majors in completing a portfolio that reflects their proficiency in the following: Spanish language, competence in Hispanic culture, applied experiences, and career preparation.</p>		
SPA-380P	Elementary Spanish Education Practicum	1	SWK-170	Introduction to Social Work	3
<p>A practicum experience for K-12 Spanish education majors in elementary-level classrooms in public or private schools. Students will observe an experienced elementary Spanish education teacher who will serve as the supervising teacher for the experience. Students will teach a minimum of 3 lessons in the elementary Spanish education classroom, and will be observed and evaluated by both IWU Spanish and IWU education faculty. Graded as a Credit/No Credit class. Permission of the Division of Education to take this course in conjunction with EDU-382C.</p>			<p>An introduction to the field of social work and social welfare, including concepts fundamental to the understanding of the social work profession and the efforts of social work on behalf of oppressed populations. The entry course into the Social Work major. Volunteer work in a community social service agency required.</p>		
			SWK-335	Social Welfare Organization	3
			<p>A historical and philosophical examination of public and voluntary American social services. Value orientations, cultural traditions, and political and economic forces which have influenced the development of social welfare services and policies are emphasized. Prerequisite: SWK-170.</p>		

SWK-336	Social Policy	3	SWK-357	Social Work Practice III	3
<p>An examination and analysis of social policy development, implementation, and evaluation of the United States. Specific attention is given to how policy effects oppressed populations. Skill development in systematic policy analysis is emphasized. Prerequisite: SWK-335.</p>			<p>A social work methods course designed to further the student's problem-solving abilities. Special attention is given to assessment, planning, and evaluation of macro systems. Organizations and communities are the central focus of the course and are examined from the generalist model of social work practice. Prerequisites: SWK-355 and SWK-356.</p>		
SWK-342	Human Behavior and the Social Environment I	3	SWK-366	Social Work Field Placement I	3
<p>An examination of how human behavior is shaped/influenced by one's environment. Emphasis is placed on how oppression, social injustice, and gender effect development across the life span. Both normal processes and obstacles that prohibit optimal development are examined. Specific emphasis is placed on understanding human development in the context of social work practice across the life span. Prerequisites: SOC-150 and PSY-150.</p>			<p>Taken concurrently with SWK-355, this course requires placement of 12 hours per week in a social service agency arranged by the Department of Social Work. Emphasis is given on the practical application of course content. Students are given opportunities to integrate classroom content with agency experiences. Prerequisites: SWK-170, SWK-335, and SWK-342 .</p>		
SWK-343	Human Behavior and the Social Environment II	3	SWK-370	Social Work Field Placement Seminar I	3
<p>An examination of how human behavior is shaped/influenced by macro systems. Such systems include family, groups, organizations, and community. Significant emphasis is placed on human development and how it is influenced by oppression and social injustice. A three-four day field trip to an urban environment is required. Prerequisites: SOC-150, PSY-150, SWK-170 and admission to the social work major.</p>			<p>Taken concurrently with SWK-355 and SWK-366, this course is designed to integrate course content of SWK-355 with the field placement experience. Emphasis is given to the development of skills related to assessment, planning intervention, evaluation, and termination in the context of a generalist model of social work practice.</p>		
SWK-354	Statistics for Social Sciences	3	SWK-399H	Honors Thesis/Project	3
<p>This is an upper-division course for the Social Sciences. Topics include measures of central tendency and dispersion and graphical representation of data. Other topics include inferential statistical theory and hypothesis testing for statistical significance. Bivariate and multivariate measures of statistical relationship include chi square, nominal and ordinal measures of association, correlation and regression, analysis of variance, and multiple correlation and regression techniques. Factor analysis and analysis of covariance are briefly introduced. Primarily for students concentrating on psychology, sociology, social work, criminal justice, or political science. Prerequisite: Math SATI 450 (SAT 410) or ACT 10 or successful completion of the Math Competency requirement. Also listed as PSY-354.</p>			<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>		
SWK-355	Social Work Practice I	3	SWK-466	Social Work Field Placement II	9
<p>An introduction to the generalist model of social work practice. Emphasis is placed on the importance of a theoretical framework for practice. Basic skills of the generalist model of practice are introduced and applied specifically to work with individuals. Prerequisites: SWK-170 and admission into the Social Work Program.</p>			<p>Through observation and participation in social service programs in various community agencies, under the educational direction of agency professionals and university faculty, students advance their knowledge of the social work profession and refine their practice skills. Prerequisites: SWK-357 and completion of the field practice application process. Taken concurrently with SWK-470.</p>		
SWK-356	Social Work Practice II	3	SWK-470	Social Work Field Placement Seminar II	3
<p>Building on the foundation established in SWK-355, this course utilizes the generalist model of social work practice with groups and families. Attention is given to assessment and development of appropriate interventions within a systems framework of social work practice. Prerequisite: SWK-355.</p>			<p>The seminar is designed to integrate the concepts, knowledge skills, and values that are learned from areas of Social Work Practice, Social Policy, Human Behavior/Social Environment, and Social Research. Provides opportunities for students to share learning experiences from agency placement.</p>		
			SWK-472	Social Work Seminar	3
			<p>A series of rotating seminars focusing on social work practice relative to special populations, settings, interventive approaches, and specific problems such as social work with the substance abuser, social work with children, issues in child welfare, or social work with the aging.</p>		

THE-232	Basic Christian Doctrine	3	THE-425	Patristic Theology	3
<p>This course presents the basic doctrines of the Christian faith for students desiring a brief introduction to Christian doctrine. The Apostles' Creed provides the outline for an overview of the basic tenets of the Christian beliefs. Evangelical perspectives are explained and compared with other traditions.</p>			<p>The purpose of this course is to immerse students in the primary theological sources of the Patristic period, which form the interpretative foundation for theological orthodoxy. Specifically, students will read, examine and discuss the major theological treatises of the Doctors of the Eastern Church - Athanasius, Basil the Great, Gregory Naziansus, and John Chrysostom and the Doctors of the Western Church - Ambrose, Augustine, Jerome, and Gregory the Great. Principal attention will be given to their systematic treatments of Christian doctrine. Prerequisites: THE-232 or THE-233.</p>		
THE-233	Christian Theology I	3	THE-428	The Theology of John Wesley	3
<p>This course lays the foundation for all advanced theology courses, by laying out the basic tenets of the Christian faith. Special attention is given to the doctrine of God, Christology, Biblical Authority and Eschatology. Wesleyan/Arminian perspectives are compared with other traditions of Christian faith. Students intending to take only one course in theology should enroll in THE-232; Basic Christian Doctrine.</p>			<p>The theology of John Wesley introduces students to the thought of John Wesley. While the historical background and history of the Methodist movement are considered, the focus is upon Wesley's theology through a study of Wesley's Standard Sermons and key treatises and letters. All major doctrines in John Wesley's theology will be addressed. However, because Wesley's theology of salvation is addressed substantially in REL-424: Theology II, Wesley's soteriology will not be a focus. Prerequisite: REL-232 or REL-233.</p>		
THE-310	Christology	3	TSL-203	TESOL Theoretical Foundations	3
<p>This course examines the person and work of Jesus Christ. Students will explore the historical and theological development of orthodox Christology and attendant debates from the New Testament to today. Particular attention will be given to the relevance of Christ's theandric nature, earthly life, offices, atonement, resurrection, session, and second coming for Christian faith. Prerequisite: THE-233.</p>			<p>Introduces students to the theoretical underpinnings of TESOL (Teaching English to Speakers of Other Languages). Examines various language teaching models and how the selection of such models for the classroom is influenced by cognitive, affective, sociocultural, and linguistic factors.</p>		
THE-311	Ecclesiology	3	TSL-305	Second Language Acquisition	3
<p>Ecclesiology addresses the doctrine of the Church with a special focus upon the nature and mission of the Church. The biblical, historical, theological, and practical aspects of ecclesiology will be examined from both a Protestant and Roman Catholic/Eastern Orthodox perspectives, while considering major contemporary theological proposals. This class will also examine the historical problem of ecclesiology in the Wesleyan-Arminian tradition, address contemporary Wesleyan expressions of the Church, and work toward a biblically and theologically informed ecclesiology. Prerequisite: THE-232 or THE-233.</p>			<p>Examines the fundamental linguistic theories, principles, and the processes of language acquisition and cognitive development. While this course will cover first language acquisition, the focus will be on second language acquisition. The course will consider linguistic, psychological, and social perspectives.</p>		
THE-420	The Life and Legacy of Augustine Of Hippo	3	TSL-350	TESOL Assessment and Testing	3
<p>A study of one of the most influential shapers of Western Christianity by examining his life, his basic interpretation of salvation and the church, and his subsequent impact upon Roman Catholic and Protestant theology alike. Special attention given to his own writings, especially the Confessions. Prerequisite: REL-331 or REL-241.</p>			<p>Investigates concepts and theories in the field of language assessment. Explores the fundamental concepts in testing, the use and interpretation of current instruments of language and academic assessment, the appropriate placement of linguistically diverse students, and the development of classroom language assessments.</p>		
THE-424	Christian Theology II: Salvation /Holiness	3	TSL-380	Elementary Methods of Teaching ESOL	3
<p>An intensive study of soteriology, including the doctrines of sin, prevenient grace, justification, sanctification and glorification from a Biblical, historical and practical perspective. The Wesleyan Arminian tradition will provide the theological framework for this course, we will examine other theological views from this perspective. Special attention will be given to John Wesley's doctrine of holiness. Prerequisite: THE-233 or THE-232.</p>			<p>General methods of teaching English to speakers of other languages at the elementary education level. Topics covered include planning, teaching techniques, models of teaching, learning theories for young language learners, measurement and evaluation, motivation, classroom management and discipline, culturally different learners, and special needs learners as applied to teaching. A field experience is required in an elementary school ENL classroom or pull-out program. Prerequisite: ENG-120 and TSL-203; Prerequisite or Co-requisite: TSL-305 and TSL-350, or Permission of the Division.</p>		

<p>TSL-380P Elementary TESOL Education Practicum 1</p> <p>Provides a practicum experience for K-12 TESOL education majors in elementary-level classrooms in public or private schools. Students will observe an experienced elementary TESOL education teacher who will serve as the supervising teacher for the experience. Students will teach a minimum of 3 lessons in the elementary TESOL education classroom, and will be observed and evaluated by both IWU TESOL education and education faculty. Graded as a Credit/No Credit class. Co-requisite: TSL-380. Permission of the Division of Education to take this course in conjunction with EDU-382C.</p>	<p>UNV-115 Drivers Ed on the Information Superhighway 1</p> <p>This course will prepare the student to use the Internet and the World Wide Web (WWW) to get information needed to conduct personal, professional, and educational goals. It will explain the basic communications features of a personal computer and basic network topology. The student will know how to connect to the Internet and the WWW through the telephone system or computer networks. The student will be able to use email and FTP to get information on the Internet and be able to use a browser to get information on the WWW. Further, the student will be introduced to the search tools available in order to help locate information on the Internet.</p>
<p>TSL-385 Practicum in TESOL 3</p> <p>Provides opportunity for majors and minors to practice teaching English to Speakers of Other Languages (TESOL) in an international setting. It includes observation of, participation in, and the analysis of teaching ESOL. This course is evaluated on a credit/no credit basis. Prerequisites: ENG-170, TLS-203, TSL-305, EDU-380TE; or permission of the Division.</p>	<p>UNV-116 Internet Tools 1</p> <p>This course will introduce students to additional basic tools (applications) which they can use on the Internet for a variety of functions such as communication, file transfers, and research. (Windows 95 and 100 mg free on hard drive are required since many software packages are downloaded.)</p>
<p>TSL-420 English Linguistics for TESOL 3</p> <p>This course provides a detailed examination of specific aspects of the English language to prepare students for teaching English to speakers of other languages (TESOL). Topics to be covered will include the English sound system, word formation and acquisition, sentence structure and meaning, practical language use, and world Englishes. Pedagogical implications of each area will also be explored.</p>	<p>UNV-117 Bldg YOUR Www.home.page 1</p> <p>This course will prepare students to create a presence and provide information on the World Wide Web. It will explore the tools and procedures required to design, build, and implement a Web site. This course will give students the ability to move beyond the limitations of prepackaged page development software. Students will learn how to write basic HTML code to create pages containing images and links to other sites. By the conclusion of the course the student will have created a five-page site on the World Wide Web.</p>
<p>UNV-111 Philosophy and Practice of Lifelong Learning I</p> <p>This course focuses on understanding and managing the transitions encountered upon entering formal higher education. Emphasis will be placed on developing the skills related to personal effectiveness and lifelong learning.</p>	<p>UNV-120 Career Development 3</p> <p>A course dealing with the issues related to managing personal career growth and development. Job search techniques and personal skills and interest assessments are included.</p>
<p>UNV-112 Philosophy and Practice of Lifelong Learning II 2</p>	<p>UNV-150 Relationships: Bldg & Maintaining Healthy Relationships At Home & Work 3</p> <p>Because people long for relational connection, this course explores how to forge strong rewarding relationships with friends, with the opposite sex, with family, and with God. It is designed to help you make bad relationships better and good ones great. This course does NOT substitute for PSY-150.</p>
<p>UNV-114 Investigation and Utilization of Information 1</p> <p>A self-directed learning course designed to familiarize students with various methods available to gather and utilize information. Using self-directed topics, students will develop skill in the use of such tools as traditional or nontraditional library collections, microfilm and microfiche, online catalogs and databases, searching protocols, interviewing for information, Internet search tools, and online networking.</p>	<p>UNV-170 Principles of Information Literacy 1</p> <p>This course will present information retrieval techniques designed to promote critical thinking; to improve the ability to articulate information needs; to retrieve, synthesize, evaluate, and utilize information from print, electronic, and Internet resources; and to equip one to be a lifelong learner. Not open to students with credit in UNV-114.</p>

UNV-180	Becoming World Changers: Christian Faith and Contemporary Issues	3	WOR-235	Worship	2
<p>This introductory course for all first year students outlines the fundamental components of the Christian faith from an evangelical perspective. Students are challenged to develop a Christian worldview through their entire undergraduate experience by examining how Christian ideas both challenge and enrich the prevailing thought patterns of contemporary society. Readings and weekly discussion groups enable students to begin integrating faith, learning, and living as a foundation for their university experience.</p>			<p>This course examines the biblical, historical, and theological foundations of Christian worship and rituals in order for each student to derive a practice of worship which is culturally relevant yet rooted in the rich tradition of the ages. This course moves from theory to practice with actual preparation for leading worship. Co-requisite: WOR-235P.</p>		
UNV-180G	Becoming World Changers (group)	0	WOR-235P	Worship Practicum	1
<p>Graded on a CR/NC basis.</p>			<p>Each student will be involved in practical experiences in a local ministry setting providing the student with a "laboratory" for the application of the principles of Christian worship as taught in the co-requisite course. Co-requisite: WOR-235</p>		
UNV-181	Leading Change in the World	3	WOR-237	Media for Ministry	3
<p>This course is designed to assist students with the development of a basic plan to change their world. Students will be briefly introduced to key elements of select leadership models, change theory, and strategic planning, and will use this theory to build a model to become change agents. Students will be introduced to a Christian worldview of change by experiencing select readings of prominent change agents in Biblical history.</p>			<p>An introduction to a wide variety of media and technologies used for worship in local church or para-church ministries. Students will learn basic operations for such things as lighting, sound, videography, presentational software, desktop publishing, graphic editing, digital imaging, and podcasting. In addition, theological reflection upon the use of such media and technologies and the pastoral sensibilities needed for their use in a ministry setting will be emphasized. Prerequisite: ENG-120.</p>		
UNV-201	Liberal Arts Appreciation	1	WOR-322	Worship Throughout the Christian Year	3
<p>Liberal Arts Appreciation: Designed to provide an overview of the beneficial aspects of a liberal arts education, course materials will help students gain a historical and contemporary understanding of the arts, humanities, and sciences and their application in the modern world. The course also serves as a capstone for associate of science majors in general studies.</p>			<p>This course will explore the biblical understanding of time and how Christians have organized time for purposes of corporate worship. Students will examine how the observance of the Christian year proclaims the story of God in Christ by remembering specific events which recount God's divine activity. Particular attention is given to creating special services of worship expressive of the primary seasons of the sacred calendar (Advent, Christmas, Epiphany, Lent, Easter, and Pentecost). Prerequisites: THE-232 or THE-233; WOR-235 and WOR-235P or with permission of the Division.</p>		
UNV-360	Enterprise Community Internship	2	WOR-325	Centuries of Song	3
<p>This course is focused on facilitating and supporting for-credit internship opportunities within the state of Indiana for students seeking to apply in-class learning to an out-of-class applied learning community. Students will participate in an internship experience and the course concurrently, which facilitates community connections and involvement. Students from various academic disciplines will be brought together to process and reflect upon the Enterprise Community experience and the impact this experience has on the overall understanding of self-directed learning, self-assessment, career exploration, faith integration, and professional development.</p>			<p>A historical survey and theological examination of Christian congregational song used throughout twenty centuries of Christian worship ranging from chant to contemporary praise choruses, from traditional Western hymnody to global worship songs. Some attention is given to utilizing a variety of song types in worship design and introducing congregations to and leading them in new song forms for worship. Prerequisites: WOR-235 and WOR-235P or with permission of Division.</p>		
UNV-401	General Studies Colloquium	1			
<p>General Studies Colloquium: A readings capstone seminar for the General Studies program, focused readings from various liberal arts disciplines will aid students in determining the value of a liberal arts education.</p>					

WOR-333	History and Philosophy of Worship	3	Explores the history of Christian worship from the close of the New Testament era to the modern period tracing the development and changes through history. The history section of this course uses the accepted rubric for worship studies: Time, Space, Prayer, Scripture, sacraments along with coverage of other elements of modern worship and their historical roots. The philosophy section examines various theologies and philosophies of worship in order to aid the student in developing his or her own practical worship theory.	WRI-210	Theories and Methods of Writing Consultancy	3	Required of all writing consultants in the first three semesters during which they work at the Writing Center. They may take this course for one credit hour per semester but may not accumulate more than three credit hours. This course will provide a philosophical and theoretical background to peer tutoring as well as hands-on instruction for working with students in various aspects of the writing process. Prerequisite: Successful completion of ENG-120 or Advanced Standing in English and Permission of the Division.
WOR-436	Church Rituals	1	This course is designed to combine theological reflection with practical application as students acquaint themselves with the basic rituals of worship and passage in the evangelical tradition. Open to juniors and seniors who are Christian Ministries, Christian Worship or Youth Ministry majors or by permission of the Division. Prerequisite: REL-264 or YTH-220; THE-232 or THE-233; WOR-235 and WOR-235P.	WRI-223	Desktop Publishing	3	Designed to allow students to develop skills in using the computer to produce printed materials. The student will learn both the theory and mechanics of computer-aided print production and the software necessary to produce the different types of print pieces commonly used for communication campaigns. Prerequisite: Successful completion of ENG-120 or Advanced Standing in English.
WOR-438	Worship Capstone	2	A capstone course for students to bring together all their prior learning and preparation to produce a senior project related to worship. Students in this course are expected to use critical thinking skills and develop a synthesis worship project that will be tested and revised for actual implementation in a local church worship environment. To be taken simultaneously with WOR-438P. Open only to students who have been admitted to the Christian Worship major in their senior year.	WRI-224	Introduction to Newswriting	3	A survey of the field of journalism, including the news media, the role of reporters, ethics, methods, and operations. Practical application in gathering information and writing news stories through covering campus and University-related activities. Requires field assignments and attendance at campus newspaper meetings. Prerequisite: ENG-120 or Advanced Standing in English.
WOR-438P	Worship Capstone Practicum	1	Each student will be involved in a practical experience producing actual worship services providing the student with a laboratory for the convergence of the courses in communications, music and religion and related to the co-requisite course. These worship management experiences include experience in planning, budgeting, recruiting, organizing, supervising volunteers, and related activities required of a producer or manager of Christian worship services. Co-requisite: WOR-438.	WRI-230	Sentence Strategies	3	Explores all elements of the writer's basic tool: the sentence. The course focuses on the possibilities of writing graceful, powerful, and/or effective sentences, no matter what the writer's purpose or genre. Students will analyze both professional and student models and develop tools and skills necessary to go beyond the conventional and traditional to explore the possibilities of English sentence construction in both practical and artistic composition. Prerequisite: WRI-234 or permission of the Division.
WRI-165	English Language and Composition	3	Studies in the English language from its historic background through its present use in advertising, politics, propaganda, and the business and professional world. Through writing assignments, students focus critically on using language responsibly. Prerequisite: Successful completion of ENG-120 or Advanced Standing in English.	WRI-234	Advanced Writing	3	Develops skills of advanced expressive, expository, and research writing--employing current aims of discourse and emphasizing peer critiquing. Students are exposed to working collaboratively on such projects as group presentations, group research, and essays. Prerequisite: Successful completion of ENG-120 or Advanced Standing in English.
				WRI-235	Creative Writing	3	An introduction to the writing of fiction, poetry, and drama. Emphasizes both the exercising of the imagination and the shaping of that imagination into artistic forms. Prerequisite: Successful completion of ENG-120 or Advanced Standing in English.

WRI-495	Creative Writing Project		YTH-341	Youth Ministries Practicum	1
<p>Creation of an ambitious individual writing project in any creative genre. For advanced students, by permission of the Division.</p>			<p>This course moves beyond observation to actual ministry involvement under the supervision of a pastor/mentor in a local church setting. The student will identify a specific youth ministry assignment and approved by the ministry supervisor and the practicum instructor. Students will be expected to be involved in a small group ministry as well as take some leadership role in a large teen event. An average of four ministry hours will be required each week. Prerequisites: YTH-220 and YTH-221.</p>		
YTH-220	Introduction to Youth Ministries	2	YTH-342	Youth Ministries Practicum	1
<p>This course focuses on developing one's personal vision and practice of youth ministry and gives attention to the foundational and diverse elements of youth ministry. It will include an introduction to the programs, methods, models, issues, challenges, and opportunities of youth ministry as well as the Biblical and philosophical foundations for such ministry. Co-requisite: YTH-220P.</p>			<p>See YTH-341. Prerequisite: YTH-341.</p>		
YTH-220P	Youth Ministry Observation	1	YTH-343	Youth Ministries Practicum	1
<p>Introduction to the basic elements of youth ministry by first-hand observation in a local church setting. The student will identify a specific church setting for observation/practicum. Emphasis will be upon exposure to and some participation in the general aspects of local church youth ministry especially related to those ministries with impact upon adolescents. An average of four hours of observation would be required each week. Co-requisite: YTH-220.</p>			<p>See YTH-341. Prerequisite: YTH-342.</p>		
YTH-225	Models of Youth Ministry	3	YTH-355	Youth Programming and Management	3
<p>This course is designed to familiarize students with the several approaches to youth ministry currently being utilized across the church. The course will involve both classroom presentation and on-site visits to a variety of ministries.</p>			<p>This course is an in-depth exploration of the nature and process of effective youth ministry in the local church. It will study the nature of modern adolescence, youth culture and youth ministry with a view to develop international youth ministry programs. This course also seeks to develop management skills and an effective vision of leadership with a primary emphasis on Christ-centered, principle-based servant leadership. Open to juniors and seniors who have been admitted to the Youth Ministries and Adolescent Ministries majors or by permission of the instructor. Co-requisite: YTH-355P.</p>		
YTH-240	Camping and Retreat Ministries	3	YTH-355P	Youth Programming Practicum	1
<p>An examination of Christian camps and institutes for children, youth and/or adults. Objectives, personnel, materials, as well as philosophy, are considered.</p>			<p>This course moves beyond observation to actual ministry involvement under the supervision of a pastor/mentor in a local church setting. The student will identify a specific youth ministry assignment as approved by the ministry supervisor and the practicum instructor. Students will be expected to be involved in a small group ministry as well as take some leadership role in a large teen event. An average of four ministry hours will be required each week. Co-requisite: YTH-355.</p>		
YTH-270	Communication With Youth	3	YTH-370	Youth Counseling	3
<p>This course concentrates on the unique elements of communicating with youth and children as a distinctive age group in the church. It explores communication theory and the process of communicating Christ to contemporary culture. Limited to majors and minors in the Division of Religion and Philosophy unless permission is granted by the Division. Prerequisite: BIL-202.</p>			<p>A study of youth problems and needs with emphasis on individualizing patterns for personal growth and spiritual guidance.</p>		
YTH-320	Youth Leadership Seminar	3	YTH-371	Youth Evangelism and Discipleship	3
<p>A focused study on specific aspects of youth ministry using field trips and resource specialists. This course may be repeated.</p>			<p>This course will establish both principles and practices of evangelism and discipleship which are uniquely applicable to persons in the second decade of life.</p>		
			YTH-399H	Honors Thesis/Project	3
			<p>Work with a faculty mentor and in cooperation with an Honors College advisor, producing a research thesis or creative project.</p>		

YTH-425 Youth Ministry Internship

This course is designed to give an individual a semester/summer of practical experience while serving in full-time youth ministry in a local church setting. The student will work under the supervision of an effective full-time youth pastor who serves as mentor/evaluator. This internship requires a minimum of 40 hours of ministry each week, which may include study and research time needed for this course and other youth ministry courses in which the student is concurrently enrolled. 4-7 week experience: 3 hours; 8-11 week experience: 6 hours. Prerequisites: YTH-220 and permission of instructor.

YTH-480 Senior Youth World Changing Seminar 2

In a seminar setting, a personal strategy is developed for changing our world in the form of a first year ministry plan. We will draw upon biblical and theological resources as well as the synthesis of practical insights gained during the undergraduate experience. Students will refine a portfolio and develop a life plan for on-going personal and professional development. Capstone experiences will include both a written paper and an oral presentation to the class. Limited to seniors in youth Ministries and Adolescent Ministries majors.