

Course Descriptions

(Undergraduate)

ACC-200	Survey of Accounting	3	ACC-304	Current Topics in Accounting	1
<p>This course concentrates on what accounting information is, what it means, and how it is used. Focus is on helping students understand the meaning of the numbers in financial statements, their relationship to each other, and how they are used in evaluation, planning, and control. Not open to students with credit in ACC-201 or ACC-202.</p>			<p>A seminar class with the objective of using a current book and/or articles as the basis for discussing new ideas or issues facing the accounting profession. In addition to raising awareness of new ideas and issues, the course requires each student to evaluate the practical application of these new ideas and issues in relation to their discipline. The course may be repeated for a total of 3 hours. Prerequisite: Admission to the Division.</p>		
ACC-201	Accounting Principles I	3	ACC-311	Intermediate Financial Accounting I	3
<p>Emphasizes the process of generating and communicating accounting information in the form of financial statements to those outside the organization. No prerequisite.</p>			<p>A study of financial accounting concepts and reporting standards for cash, receivables, inventories, plant assets, intangibles, investments, long-term liabilities, and the statement of cash flows. Pre requisites: ACC-202.</p>		
ACC-202	Accounting Principles II	3	ACC-312	Intermediate Financial Accounting II	3
<p>Emphasizes the process of producing accounting information for the internal use of a company's management. Prerequisite: ACC-201.</p>			<p>A study of financial accounting concepts and reporting standards for stockholders' equity, leases, current liabilities, revenue recognition, income taxes, pensions, error analysis, and the statement of cash flows. Prerequisites: ACC-311.</p>		
ACC-210	Using Spreadsheets in Accounting	3	ACC-341	Managerial Cost Accounting I	3
<p>This course introduces the student to the Microsoft Spreadsheet application. The course provides intensive training in the use of spreadsheets on microcomputers for the accounting profession. The student is taught to automate many of the routine accounting functions. The student will also be taught how to develop spreadsheets for common business functions.</p>			<p>An examination of the management information needs for effective decision-making and the managerial accounting system designed to meet those needs. Emphasis is placed on cost behavior and the determination of an organization's long-term, total product costs and total service costs for strategic decisions. Prerequisites: Admission to the Division and ACC-202.</p>		
ACC-220	Payroll Accounting and Taxation	3	ACC-342	Managerial Cost Accounting II	3
<p>This is a comprehensive payroll course in which federal and state requirements are studied. This includes computation of compensation and withholdings, processing and preparation of paychecks, completing deposits and payroll tax returns, informational returns, and issues relating to identification and compensation of independent contractors. In addition, students will overview electronic commercial systems such as ADP, as well as review the requirements for certification through the American Payroll Association (APA).</p>			<p>An examination of the management information needs for effective decision-making and the managerial accounting system designed to meet those needs. Emphasis is placed on control systems and the motivation, measurement, and evaluation of short-term and long-term performance. Prerequisites: Admission to the Division and ACC-341.</p>		
ACC-230	Business Taxation	3	ACC-371	Federal Income Tax I	3
<p>This course is an introduction to the federal tax system. This includes the basic income tax models, business entity choices, the tax practice environment, income and expense determination, property transactions, and corporate, sole proprietorship, and flow-through entities. In addition, individual and wealth transfer taxes will be overviewed.</p>			<p>A comprehensive study of the federal income tax structure as primarily related to individuals. Prerequisites: Admission to the Division and ACC-202.</p>		

ACC-372	Federal Income Tax II	3	ACC-471	Independent Learning in Accounting	1-3
<p>A comprehensive study of the federal income tax structure as related primarily to business returns and related topics, including payroll taxes, estates, and trusts. Prerequisites: Admission to the Division and ACC-371.</p>			<p>An opportunity for advanced students to pursue further study in an accounting field of interest in which they have exhausted catalog offerings. Prerequisites: Admission to the Division, Senior Standing, and ACC-312.</p>		
ACC-381	Accounting Practicum	1-3	ACC-491	Accounting Seminar	3
<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 Division and ACC-312.</p>			<p>A capstone accounting course focusing on current issues and special 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 presentations, oral and written, to satisfy the third credit hour. Prerequisite: ACC-423 and ACC-451.</p>		
ACC-390	International Business	3	ACC-499T	Accounting Transfer	3
<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 Division.</p>			<p>ACC-499TM Accounting Transfer 3</p>		
ACC-399	Service Learning	3	ADC-210	Addictions Theory	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 Division.</p>			<p>This course is intended to introduce the student to major theories of addiction, alcoholism, other chemical dependencies, and compulsive behavior syndromes. Students will consider case examples from a variety of etiological perspectives. The course will examine the concept of codependence and the impact of addictions on the individual, family, and culture. Emphasis is given to familiarity with current literature, breadth of understanding, areas of consensus and controversy, and twelve-step recovery.</p>		
ACC-410	Accounting Information Systems	1-3	ADC-212	Psychopharmacology	3
<p>This course is designed to provide a broad awareness of the concepts of accounting information systems. Topics considered include data integrity, data-flow, information-flow, information technology, and how these items impact managerial decision-making. Prerequisites: Admission to the Division and ACC-311.</p>			<p>This course is intended to introduce the student to drug administration, absorption, movement, and drug-receptor interactions, as well as the general principles of each class of psychoactive drugs and the specifics of abused substances and particular psychoactive medications. Students will become familiar with current thought in regard to biochemical abnormalities and their proposed role in behavioral disorders. The course will also provide an overview of clinical practice guidelines for treating psychological and substance use disorders, including the use and limitations of pharmacologic treatments.</p>		
ACC-423	Auditing	3			
<p>Auditing principles and procedures used in the examination of financial statements and the underlying accounting records to express an opinion as to their fairness and consistency. Prerequisites: Admission to the Division and ACC-312.</p>					
ACC-451	Advanced Accounting	3			
<p>Advanced topics in accounting, stressing accounting for consolidations, partnerships, and not-for-profit organizations. Prerequisites: Admission to the Division and ACC-312.</p>					

ADC-488T	Addictions Transfer	3	ADM-471	Managerial Accounting	4
				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.	
ADC-499T	Addictions Transfer	3	ADM-474	Managerial Finance	4
ADC-499TM	Addictions Transfer	3		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.	
ADM-201	Principles of Self-Management	2	ADM-495	Seminar in Business	3
	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.			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.	
ADM-316	Computers and Information Processing	3	ART-121	Drawing I	3
	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.			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.	
ADM-320	Business Statistics	3	ART-134	Introduction to Photography	3
	This module helps students analyze and interpret statistical data. Quantitative concepts and basic techniques in research are stressed.			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.	
ADM-370	Economics for Business	3	ART-170	Art Appreciation	2-3
	An introductory course designed to relate economic theory and current economic events to the problem of effective managerial decision-making.			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.)	
ADM-400	Personal and Professional Assessment	3	ART-221	Drawing II	3
	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.			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.	
ADM-447	Business Law	3			
	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.				
ADM-448	Strategic Planning	3			
	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.				

ART-224	Design I: Two-Dimensional Design	3	ART-245	Composition and Storyboarding	3
<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>			<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>		
ART-228	Metalsmithing I	3	ART-246	Introduction to Interior Design	3
<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>			<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>		
ART-230	Stained Glass I	3	ART-247	Motion Graphics 1	3
<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>			<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>		
ART-234CC	Council for Christian Colleges and Universities	3	ART-251	Sculpture I	3
<p></p>			<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>		
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-266	Printmaking I	3
			<p>An introduction to basic skills of printmaking methods, including woodcut, engraving, intaglio, and lithography. Prerequisites: ART-221 and ART-324.</p>		

ART-273	Introduction to Computer Graphics	3	ART-330	Stained Glass II	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>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>		
ART-280	Visual Communications--Graphic Design	3	ART-331	Painting I	3
<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>			<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>		
ART-281	Commercial Layout and Design	3	ART-332	Painting II	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>			<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-314	Documentary Photography	3	ART-336	Contemporary Photo Techniques	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>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-320	Introduction to Cartoons	3	ART-343	Ceramics II	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>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-348	Materials and Lighting	3	ART-371P	Elementary Art Practicum	1
<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>			<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>		
ART-351	Sculpture II	3	ART-373	Introduction to Computer Graphics	3
<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>			<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-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			
<p>A continuation and specialization of skills in a specific area of printmaking. Prerequisites: ART-221 and ART-266.</p>					
ART-371	Art for Elementary Teachers	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>					

ART-380	The History of American Illustration	3	ART-399H	Honors Thesis/Project	3
<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>			<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>		
ART-381	Art History I	3	ART-424	Product Photography	3
<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>			<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>		
ART-382	Art History II	3	ART-430	Stained Glass III	3
<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>			<p>An exploration in techniques dealing with flashing, slump, multi-layering, and assembling will be explored in this advanced class. Prerequisite: ART-330.</p>		
ART-383	Early Renaissance	3	ART-431	Contemporary Painting Techniques	3
<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>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-384	High Renaissance	3	ART-434	Digital Photography	3
<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>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>		
ART-385	Baroque Art	3	ART-435	Photo Illustration and Lighting Techniques	3
<p>Study of the impact of the Reformation and Baroque influence on European art from 1580 to 1720. Prerequisite: MUS-180.</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 small, 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>		
ART-386	Impressionism	3			
<p>Painting and sculpture of the Nineteenth Century with special emphasis on French Impressionism. Prerequisite: MUS-180.</p>					
ART-387	Modern Art	3			
<p>Survey of international art from post-Impressionism to the present time, including architecture, sculpture, and painting. Prerequisite: MUS-180.</p>					

ART-476	Art Enrichment	3	ART-492	Interior Design Senior Seminar	3
<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>			<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>		
ART-477	Thematic Illustration III	3	ART-499T	Art Transfer	3
<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>			<p>ART-499TM Art Transfer 3</p>		
ART-478	Art Internship	3-9	ATR-195	Introduction to Athletic Training	2
<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>			<p>An introduction into the field of athletic training with attention to the six major practice domains of Certified Athletic Trainers (ATC).</p>		
ART-481	Studio Practicum	1-3	ATR-196	Athletic Training Clinical Education Experience I	1
<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>			<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>		
ART-490	Senior Exhibit - Art	0-2	ATR-197	Athletic Training Clinical Education Experience II	1
<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>			<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>		
ART-491	Senior Seminar and Portfolio	3	ATR-199	Athletic Training Practicum I	1
<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>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, 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>		

BIL-107	Psalms and Proverbs for Life	3	BIL-205	Lands of the Bible	3
<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>An advanced study of the lands of the Biblical text with focus on the land of Israel and its capital Jerusalem. 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>		
BIL-120	Themes in Biblical Literature	3	BIL-231	Biblical Archaeology	3
<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>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-201	Methods in Bible Study	3	BIL-235	Life and Letters of Paul	3
<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>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>		
BIL-202	Inductive Bible Study	3	BIL-240	Teaching the Bible to Adults	3
<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>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>		
BIL-203	Advanced Inductive Bible Study	3	BIL-301	Pentateuch	3
<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>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 permission of instructor.</p>		
			BIL-302	Historical Books	3
			<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 permission of instructor.</p>		

BIL-303	Synoptic Gospels	3	BIL-407	The General Epistles	3
<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 permission of instructor.</p>			<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>		
BIL-304	Johannine Literature	3	BIL-408	The Apocalyptic Literature	3
<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 permission of instructor.</p>			<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>		
BIL-306	Inter-Testament Literature	3	BIL-410	Wisdom Literature	3
<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>			<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 permission of department.</p>		
BIL-333	Biblical Foundations of Worship	3	BIL-411	Psalms	3
<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>			<p>A detailed and analytical study of the Book of Psalms. Prerequisite: BIL-202 or permission of department. Offered alternate years.</p>		
BIL-399H	Honors Thesis/Project	3	BIL-412	Romans and Galatians	3
<p></p>			<p>A detailed and analytical study of Paul's letters to the Romans and the Galatians. Prerequisite: BIL-202 or permission of department.</p>		
BIL-402	Major Prophets	3	BIL-413	The Corinthian and Thessalonian Letters	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 permission of instructor.</p>			<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>		
BIL-403	Minor Prophets	3	BIL-414	The Prison Epistles	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 Ephesians, Philippians, Colossians, and Philemon. Prerequisite: BIL-202 or permission of department. Offered alternate years.</p>		
BIL-404	Acts of the Apostles	3	BIL-415	Pastoral Epistles	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 permission of instructor.</p>			<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>		
			BIL-416	Hebrews	3
			<p>A detailed and analytical study of Hebrews. Prerequisite: BIL-202 or permission of department. Offered alternate years.</p>		

BIL-422	Greek Bible	3		BIO-105	Heredity and Disease	4
<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>			<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. This course does fulfill the lab science requirement.</p>			
BIL-425	Archaeology of Syria-Palestine	3		BIO-105L	Heredity and Disease Lab	0
<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>			<p>Lab to be taken concurrently with BIO-105, Heredity and Disease. Co-requisite: BIO-105.</p>			
BIL-430	Advanced Topic in Biblical Studies	3		BIO-106	Environment and Society	4
<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>			<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. Graded on a CR/NC basis. Co-requisite: BIO-106L. Fulfills the lab science requirement.</p>			
BIL-475	Independent Learning in Biblical Literature	1-3		BIO-106L	Environment and Society Lab	0
<p>Individually arranged research into biblical problems, languages, and/or doctrines. Prerequisite: Permission of instructor.</p>			<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: BOI-106</p>			
BIL-499T	Biblical Lit Transfer	3		BIO-108	Introductory Field Biology	4
BIL-499TM	Biblical Lit Transfer	3				
BIO-102	Human Biology	4		BIO-109	Forensic Science (with Lab)	4
<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. Fulfills Lab science requirement. Co-requisite: BIO-102L</p>			<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 does fulfill the lab science requirement.</p>			
BIO-102L	Human Biology Laboratory	0				
<p>Selected laboratory experiences in human biology, designed to coincide with and complement BIO102. Graded on a CR/NC basis. Co-requisite: BIO-102.</p>						

BIO-110	Forensic Science	3	BIO-125	Principles of Biology	4
<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. Does not fulfill the 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 and relationships within the context of a Judeo-Christian worldview. 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.</p>		
BIO-111	Anatomy and Physiology I	4	BIO-125L	Principles of Biology Lab	0
<p>An integrated course covering the structure and function of the human body. Organization of the body and principles of support, movement, and control systems will be covered. Articulated skeletons and models will be used in the lab. Three lectures/one lab. Prerequisite: Math SAT 400 or above; SAT I 440 or above; ACT 18 or above. This course does not count toward a Biology major.</p>			<p>Lab to be taken as a co-requisite to BIO-125. Graded on a CR/NC basis.</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. Graded on a CR/NC basis.</p>			<p>A study of the classification, morphology, physiology, and natural history of invertebrate and vertebrate animals, including their importance to man. Four lectures/two labs. Prerequisite: BIO-125.</p>		
BIO-112	Anatomy and Physiology II	4	BIO-202	Plant Biology	4
<p>A continuation of Anatomy and Physiology I. Functions of the cardiovascular, respiratory, digestive, and urogenital systems will be covered. Three lectures/one lab. Prerequisite: BIO-111, passed with a grade of "C-" or above. This course does not count toward a Biology major.</p>			<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-112L	Anatomy and Physiology II Lab	0	BIO-203	Environmental Conservation	3
<p>Lab taken as a co-requisite to BIO-112. Graded on a CR/NC basis.</p>			<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>		
BIO-113	Introductory Microbiology	4	BIO-204	Ornithology	3
<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 be discussed. Important diseases caused by the major microbial groups will be related to the rationale for vaccinations. Two lectures/two labs. This course does not count toward a biology major.</p>			<p>A study of the morphology, natural history, identification, and conservation of birds. Emphasis placed on field work. Two two-hour periods per week plus scheduled field trips. Prerequisite: BIO-125.</p>		
BIO-113L	Introductory Microbiology Lab	0			
<p>Lab taken as a co-requisite to BIO-113. Graded on a CR/NC basis.</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. Two class periods/two laboratory periods. 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. Two lectures/four labs. Prerequisite: BIO-125 and CHE-126, passed with grades of "C" or above.</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. Three class periods/one laboratory period. Prerequisite: BIO-125.</p>		
BIO-213L	Microbiology Lab	0	BIO-330	Histology	3
<p>Lab taken as a co-requisite to BIO-213. Graded on a CR/NC basis.</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; both lecture and lab material will be covered during each session. 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. The course meets 6 hours/week and occasionally on Saturday for field trips. 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-351A	Bioethics:Bridge to the Future	4
<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>AuSable Course</p>		
BIO-302	Entomology	3	BIO-390	Directed Individual Study	1-4
<p>A study of the anatomy, physiology, identification, classification, life cycles, habits, and adaptations of insects. Two class periods/one laboratory period. Prerequisite: BIO-125.</p>			<p>Prerequisite: Permission of instructor. (At Au Sable)</p>		
BIO-303	Marine Ecology	3	BIO-395	Professional Observation	1
<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>			<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 Studies in Biology	1-3
			<p>A course in advanced topics in biology of current interest. See schedule for specific content. Prerequisite: Permission of instructor.</p>		
			BIO-399H	Honors Thesis/Project	3

BIO-411	Vertebrate Development	4	BIO-490	Biology Senior Seminar	1
<p>Study of the embryonic development of the vertebrates including man, using the frog, the chick, and the pig as types. Three-hour lecture/two-hour lab per week. Prerequisite: BIO-311 or permission of instructor.</p>			<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 Tests in biology and 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.</p>		
BIO-412	Genetics	3	BIO-495	Research in Biology	1-3
<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>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>		
BIO-432	Molecular Biology	4	BIO-499T	Biology Transfer	3
<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>BIO-499TL Biology Lab Transfer 0</p>		
BIO-436	Laboratory Techniques for Developing Areas	1-2	BIO-499TM	Biology Transfer	3
<p>A course designed to acquaint nursing students with basic laboratory techniques used in mission clinics or hospitals located in developing countries. Lecture and laboratory. Prerequisites: BIO-125 and CHE-120 or CHE-125. Does not count toward a biology major.</p>			<p>BIS-215 Introduction to Business Information Systems 3</p> <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>		
BIO-440	Immunology	3	BIS-216	Information Systems and Project Management	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>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-452A	Introduction to Environmental Medicine And Public Health	4	BIS-220	Analytical Thinking and Problem Solving	3
<p>AuSable Course</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-475	Independent Learning in Biology	1-3			
<p>Individually arranged reading, problem solving, or research in biology. Prerequisite: Permission of instructor.</p>					

BIS-222	Business Software Tools	1	BIS-341	Business Programming II	3
<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>			<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>		
BIS-224	Business Information Systems Technology	3	BIS-342	Business Programming III	3
<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>			<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>		
BIS-225	Software Tools	3	BIS-343	Business Programming IV	3
<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>			<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>		
BIS-320	Managerial Relational Database Systems	3	BIS-344	Visual Basic .Net Programming	4
<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>			<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>		
BIS-324	Networking, Systems & Security	4	BIS-346	Java Programming	4
<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>			<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>		
BIS-340	Business Programming I	3	BIS-350	Web Application Development in a Business Environment	3
<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 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 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-353	Web Application Development	4	BIS-420	Business Information Systems Project I	1
<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>			<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>		
BIS-355	Contemporary Issues and Ethics in the World of Technology	3	BIS-421	Business Information Systems Project II	1
<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>			<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>		
BIS-360	Business System Analysis and Design	3	BIS-450	Business Information Systems Project	4
<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>			<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>		
BIS-370	Project Management and Team Leadership	3	BIS-460	Business Systems Analysis and Design Seminar	4
<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>			<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>		
BIS-410	Management of Business Information Systems	4	BUS-100	Foundations of Business	3
<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>			<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>		
			BUS-101	Business Ethics	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>		

BUS-105	Introduction to American Business	3	BUS-215	Human Resource Management	3
<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>			<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-110	Business Assessment	1	BUS-220	Accounting for Business	3
<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>			<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>		
BUS-120	Personal Income Tax Preparation	3	BUS-220P	Managerial Accounting Prerequisite	0
<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>			<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>		
BUS-150	Personal Finance	3	BUS-225	Legal Environment of Business	3
<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>			<p>An introduction to the legal environment of business. Emphasis will be on a realistic application of legal principles to everyday business situations.</p>		
BUS-175	Introduction to Personnel Supervision	3	BUS-230	Global Issues	3
<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>			<p>A consideration of the key ecological, social, economic, and political issues confronting the business world as it enters the 21st century.</p>		
BUS-206	Business Decisions Using Software Tools	3	BUS-274	Business Case Study	3
<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>			<p>An integration of business principles, concepts, and skills applied to an actual business problem case study.</p>		
BUS-210	Business Law	3	BUS-275	Your Work Matters to God	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>			<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>		
			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-304CC	Council of Christian Colleges and Universities	1-3	BUS-390	International Business	3
				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.	
BUS-310	Business Communications	3			
	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.				
BUS-311	Advanced Business Law	3	BUS-390CC	Council of Christian Colleges and Universities	3
	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.				
BUS-315	Fraud Examination	3	BUS-399	Service Learning	3
	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.			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	
BUS-320	Business Statistics	3	BUS-399H	Honors Thesis/Project	3
	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.			Honors Thesis/Project	
BUS-382	Business Administration Practicum	1-3	BUS-452	Strategic Management	3
	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.			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.	
			BUS-472	Independent Learning in Business Administration	1-3
				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.	
			BUS-480	Business Practicum Transition	1
				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).	

BUS-499	Business Administration Seminar-Presentation	1	CED-350	Teaching Children in the Church	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>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-499T	Business Transfer	3	CED-354	Working With Children	3
BUS-499TM	Business Transfer	3	<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>		
CCU-300	Council for Christian Colleges and Universities	1-16	CED-357	Christian Education Practicum	1
CED-240	Teaching the Bible to Adults	3	<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>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>			CED-358	Christian Education Practicum	1
CED-252	Introduction to Christian Education	3	<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>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>			CED-359	Christian Education Practicum	1
CED-255	Local Church Education	3	<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>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>			CED-360	Curriculum Theory and Development	3
CED-255P	Local Church Education Practicum	1	<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>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>					

CED-361	Children's Ministry Practicum	1	CED-499T	Christian Education Transfer	3
<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>CHAPEL-AT Chapel 0</p>		
CED-362	Children's Ministry Practicum	1	CH-COMP	Undergraduate Chemistry Competency	0
<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>Fake course created to accommodate equivalencies that meet Chemistry Competency. Awarded from the TSUM screen to meet prerequisites and Degree Audit specifications.</p>		
CED-363	Children's Ministry Practicum	1	CHE-104	Chemistry and Artists' Colors	4
<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>			<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. Meets General Education requirements for a lab science. Co-requisite: CHE-104L</p>		
CED-450	Leading a Children's Ministry in a Local Church	3	CHE-104L	Chemistry and Artists' Colors Lab	0
<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>Lab taken as a co-requisite to CHE-104. Graded on a CR/NC basis.</p>		
CED-455	Christian Education in the Family	3	CHE-105	Exploring Chemistry	4
<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>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</p>		
CED-490	Leading Christian Education (Capstone)	3	CHE-105L	Exploring Chemistry Lab	0
<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>Lab taken as a co-requisite to CHE-105. Graded on a CR/NC basis.</p>		
			CHE-110	Introduction to Chemistry	4
			<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. Also suitable for general education requirement.</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. Graded on a CR/NC basis. 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.</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).</p>			<p>Lab taken as a co-requisite to CHE-235. Graded on a CR/NC basis.</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. Graded on a CR/NC basis.</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.</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).</p>			<p>Lab taken as a co-requisite to CHE-236. Graded on a CR/NC basis.</p>		
CHE-125L	General Chemistry I Lab	0	CHE-330	Inorganic Chemistry	3
<p>Lab taken as a co-requisite to CHE-125. Graded on a CR/NC basis.</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-126	General Chemistry II	5	CHE-350	Analytical Chemistry	4
<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.</p>			<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.</p>		
CHE-126L	General Chemistry II Lab	0	CHE-350L	Analytical Chemistry Lab	0
<p>Lab taken as a co-requisite to CHE-126. Graded on a CR/NC basis.</p>			<p>Lab taken as a co-requisite to CHE-350. Graded on a CR/NC basis.</p>		
CHE-232	Fundamentals of Environmental Chemistry	3	CHE-399H	Honors College Thesis- Chemistry	3
<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>			<p>CHE-430 Biological Chemistry I 3</p> <p>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.</p>		

CHE-432	Biological Chemistry II	4	CHE-499T	Chemistry Transfer	3
<p>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.</p>					
CHE-432L	Biological Chemistry II Lab	0	CHE-499TL	Chemistry Lab Transfer	0
<p>Lab taken as co-requisite to CHE-432.</p>					
CHE-440	Physical Chemistry I	3	CHE-499TM	Chemistry Transfer	3
<p>An introduction to thermodynamics, kinetics, electrochemistry, and the properties of gases and solutions. Prerequisites: PHY-222, MAT-254, and CHE-126.</p>					
CHE-450	Physical Chemistry II	3	CIS-110	Introduction to Computing Concepts	3
<p>An introduction to quantum mechanics, atomic and molecular structure, and the properties of liquids and solids. Three hours lecture. Prerequisite: CHE-440.</p>			<p>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. Does not apply toward a computer major; does count toward general science education requirements.</p>		
CHE-461	Physical Chemistry Lab	1	CIS-117	Essential Foundations for Computing	3
<p>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.</p>			<p>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.</p>		
CHE-475	Independent Learning in Chemistry	1-3	CIS-121	Introduction to Programming	3
<p>Individually arranged reading, problem solving, or research in advanced chemistry. Prerequisite: Permission of instructor.</p>			<p>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. This course does not count toward the requirements of a computer major but it is applicable as general education science credits other than a lab science. Pre-or co-requisite: Satisfactory completion of Mathematics Competency requirement or concurrent enrollment in math competency course.</p>		
CHE-490	Chemistry Senior Seminar	1			
<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 Tests in biology and 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.</p>					
CHE-495	Research in Chemistry	1-3			
<p>Students will engage in original research under the direction of a faculty member. This course may be repeated. Prerequisite: Permission of instructor.</p>					

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. This course does not count toward the requirements of a computer major but it is applicable as general education science credits other than a lab science. Prerequisite or co-requisite: Satisfactory completion of mathematics competency requirement or concurrent enrollment in a math competency course.

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 1-2

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 1-4

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 covered are brief introductions to e-commerce, ASP, Pearl and other topics as they develop. Co-requisite: CIS-221.

CIS-290	Local Area Networks	3	CIS-336	Programming Languages	3
<p>This course studies computer networks from the point of view of the Local Area Network (Ethernet, DFFI, wireless networks) and network interconnection with repeaters, bridges, and switches. An overview of the OSI layer model is presented with emphasis on packet transfer across networks. Common applications such as electronic mail, file sharing, printer sharing via print servers are considered. Real world protocols such as TCP-IP, IPX, NetBEUI, and AppleTalk are covered and contemporary network operation systems are reviewed including networking with Windows, Novell, and Linux. The role of a network administrator is covered regarding network security, disaster prevention and recovery. Prerequisite: CIS-125.</p>			<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>		
CIS-296	Studies in Computer Information Systems	1-3	CIS-340	Internet Database Programming	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>Introduces the concepts and techniques necessary to incorporate database applications and content in to 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 such as Cold Fusion, IntraDev, and IntraBuilder will be discussed. Prerequisite: CIS-252 and CIS-382.</p>		
CIS-320	Introduction to Software Engineering	3	CIS-350	Computer Applications-Business	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>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-325	Analysis of Algorithms	3	CIS-373	Numerical Analysis	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>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-330	Software Testing: Verification And Validation	3	CIS-382	Database Programming Development	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 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-385	Theory of Computation	3
			<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-390	Distributed Systems	3	CIS-430	Requirements Engineering and Specifications	3
<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>			<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. Refinement of requirements into preliminary design. Prerequisite: CIS-320.</p>		
CIS-396	Advanced Studies in Computer Information Systems	1-3	CIS-435	Software Process and Quality Assurance	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 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-399H	Honors Thesis/Project	3	CIS-440	Advanced Internet Concepts	3
			<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-421	Advanced Software Engineering	3	CIS-450	Ethics in the Computer Society	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>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-425	Operating Systems	3	CIS-452	Programming for E-Commerce	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>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 cart, catalogs, certificate authority, order management (order form, order status and order initialization), payment methods and authorization, secure transactions, database storage objects , EDI (Electronic Data Interchange) and ePartners, Front Page server extensions and site server. Explores the advantages and implications of on-line commerce, such as transacting business directly between customer and supplier with no intermediaries and no national border, universal mediums of exchange, public transfer of private information, and electronic payment methods. Additional topics include on-line ordering, EDI, transaction security, and digital currencies. Prerequisite: CIS-340.</p>		

CIS-475	Independent Learning in Computer Information Systems	1-4	CIT-140	Operating Systems Concepts	3
<p>A course designed to allow individualized research or problem solving in Computer Information Systems. Prerequisite: Permission of instructor.</p>			<p>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.</p>		
CIS-480	Applied Software Development Project	3	CIT-220	Desktop Applications	4
<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>			<p>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.</p>		
CIS-490	Senior Seminar	1	CIT-260	Database Concepts	3
<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>			<p>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.</p>		
CIS-497	Practicum in Computer Information Systems	1-3	CIT-262	Network Communications	3
<p>Individually arranged work assignments designed to give practical work experience in the use of computer systems. Graded on a CR/NC basis. Prerequisite: Permission of instructor.</p>			<p>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.</p>		
CIS-499T	Comp Info Systems Transfer	3	CIT-270	E-Commerce and Web Development	3
<p></p>			<p>This course provides an overview of electronic commerce and business models underlying these electronic commerce applications. It also reviews the WWW technology and e-commerce trends, and issues, such as, authentication, security, privacy, intellectual property rights and so on. It then introduces HTML and a common web design application.</p>		
CIS-499TM	Comp Info Systems Transfer	3	CIT-272	Hardware and Software Troubleshooting	3
<p></p>			<p>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.</p>		
CIT-112	Computer Information Technology	3			
<p>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.</p>					
CIT-120	Introduction to Programming Concepts	3			
<p>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.</p>					

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.

COM-110 Speech Communication 3

Basic introduction to theory and practice of public speaking: listening, analyzing, organizing, adapting, and delivering ideas effectively. Special attention to skill development.

COM-115 Introduction to Human Communication 3

This course is designed to provide students with an understanding of communication encountered in various social settings. This will be done with an emphasis on both theoretical and practical aspects. Upon completing the course, students will have 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. This course will also provide the student with an opportunity to examine the ethics of communication.

COM-116 Communication Lab 0-1

The student will work in one of several campus-based communication lab or practicum experiences, including but not limited to the following areas: Journalism (The Sojourn); Public Relations (e.g., special event planning and/or publicity); Radio (WCWC-LPFM); Sports Information (IWU Athletic Department); Television (WIWU-51); Theatre. Labs may be taken for zero or one credit. Graded on a CR/NC basis.

COM-116C Communication Lab-Communication Studies 0-1

The student will work in one of several campus-based communication labs or practicum experiences including but not limited to the following areas: Journalism (The Sojourn); Public Relations (e.g. special event planning and/or publicity); Radio (WCWC-LPFM); Sports Information (IWU Athletic Department); Television (WIWU-51); Theatre. Labs may be taken for 0 or 1 credit. The student may take more than three labs, but can only earn 3 hours credit. Graded on a CR/NC basis.

COM-116J Communication Lab-Journalism 0-1

The student will work in one of several campus-based communication labs or practicum experiences including but not limited to the following areas: Journalism (The Sojourn); Public Relations (e.g. special event planning and/or publicity); Radio (WCWC-LPFM); Sports Information (IWU Athletic Department); Television (WIWU-51); Theatre. Labs may be taken for 0 or 1 credit. The student may take more than three labs, but can only earn 3 hours credit. Graded on a CR/NC basis.

COM-116P Communication Lab-Public Relations 0-1

The student will work in one of several campus-based communication labs or practicum experiences including but not limited to the following areas: Journalism (The Sojourn); Public Relations (e.g. special event planning and/or publicity); Radio (WCWC-LPFM); Sports Information (IWU Athletic Department); Television (WIWU-51); Theatre. Labs may be taken for 0 or 1 credit. The student may take more than three labs, but can only earn 3 hours credit. Graded on a CR/NC basis.

COM-116R Communication Lab-Radio 0-1

The student will work in one of several campus-based communication labs or practicum experiences including but not limited to the following areas: Journalism (The Sojourn); Public Relations (e.g. special event planning and/or publicity); Radio (WCWC-LPFM); Sports Information (IWU Athletic Department); Television (WIWU-51); Theatre. Labs may be taken for 0 or 1 credit. The student may take more than three labs, but can only earn 3 hours credit. Graded on a CR/NC basis.

COM-116T Communication Lab-Theatre 0-1

The student will work in one of several campus-based communication labs or practicum experiences including but not limited to the following areas: Journalism (The Sojourn); Public Relations (e.g. special event planning and/or publicity); Radio (WCWC-LPFM); Sports Information (IWU Athletic Department); Television (WIWU-51); Theatre. Labs may be taken for 0 or 1 credit. The student may take more than three labs, but can only earn 3 hours credit. Graded on a CR/NC basis.

COM-116V Communication Lab-Television 0-1

The student will work in one of several campus-based communication labs or practicum experiences including but not limited to the following areas: Journalism (The Sojourn); Public Relations (e.g. special event planning and/or publicity); Radio (WCWC-LPFM); Sports Information (IWU Athletic Department); Television (WIWU-51); Theatre. Labs may be taken for 0 or 1 credit. The student may take more than three labs, but can only earn 3 hours 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 0-1

The student will work in varied environments on projects aimed at communication activism. Students will be expected to work with individuals or groups that need assistance with an issue they are facing that can be improved by means of communication. Students will learn firsthand about the responsibilities that accompany the gift of communication. It 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 1

Conference and laboratory work for the staff of the university paper and yearbook. Does not count toward a liberal arts English major or minor but may apply toward a teaching major in English. Graded on a CR/NC basis. Prerequisite: Permission of instructor.

COM-201 Public Relations Practicum 0-1

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

This course provides students with 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 throughout the course. Prerequisite: COM-115 or permission of the 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 the Division.

COM-211 Introduction to Mass Communication 3

An overview of the mass communication industries, introducing the student to all areas of professional work in the mass media institutions. This course also addresses the social, cultural, and moral impact of mass communication.

COM-214 Radio Production 3

Principles of audio production are applied to radio station operations. Students 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.

COM-215 Television Production 3

This course is an 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.

COM-220 Radio Practicum 1

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.

COM-223 Desktop Publishing 3

A course 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.

COM-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.

COM-226 Voice and Interpretation 3

This class will address techniques for improving the student's speaking voice as well as underlying techniques and theories. Attention will be paid to articulation, pronunciation, voice 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 the Division.

COM-227 Research Methods in Communication 3

This course introduces students to the research process. It 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 the Division.

COM-229 Media and Society 3

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 is placed on making informed choices as a media consumer, and considering the impact of media from a Christian perspective.

COM-233 Principles of Public Relations 3

A survey course that examines the history, roles, functions, purposes, methods, responsibilities, and ethical issues of public relations in various contexts, including corporate, nonprofit, and agency environments. This course focuses on how organizations effectively communicate with various publics in order to achieve specific public relations objectives.

COM-235 Communication Career Seminar 1

A course that introduces students to the various careers available in communication. It examines the meaning of vocation, and the role it can play in our calling to be "world changers." The course 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.

COM-240 Television Practicum 1

Provides ongoing, advanced, practical television experience on university television station WIWU-TV. Student is required to attend 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.

COM-250 Media Scriptwriting 3

Principles of developing and writing scripts for multiple electronic media including radio, television, and online forms. Emphasis is placed 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.

COM-251 Principles of Script Analysis 3

This class will explore 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 will be able to understand the script from the perspective of the actor, director, and designer. Extensive writing will be required.

COM-252 Beginning Acting 3

Beginning Acting will address basic techniques of acting applied to creating contemporary characters, including imaginative, emotional, and sensory responsiveness to realistic dramatic situations. Students will develop their appreciation for the craft of acting and will be able to develop clear and motivated characters for stage and church worship.

COM-270 Stage Management 3

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.

COM-272 Stagecraft 3

Introduction to scenery, lighting, costume design, technical theater practices, and production management stressing practical production experience and terminology. Students will 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. This is a workshop course requiring practical production involvement and including laboratory hours.

COM-310 Stage Design for Theatre I 3

This course will concentrate on stage design, including set design, set painting, props design, and lighting design. We will study the 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 will be expected. The student will earn basic techniques for drafting, rendering, and model-making, skills that are then used to create the stage design for a musical.

COM-314 Studio Production 3

This advanced course develops production and leadership skills in studio-based, long-form production. Students will 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 the Division.

<p>COM-315 Principles of Stage Directing 3</p> <p>This class will explore 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 will develop a basic understanding of the directing process. Students will direct short scenes to gain an appreciation for the art of directing. Prerequisite: COM-120 or permission of the Division.</p>	<p>COM-340 Communication Theory 3</p> <p>Examines definitions and models of communication. The exploration of specific theories will be emphasized through individual research. Prerequisite: COM-115 or permission of the Division.</p>
<p>COM-317 Theatre History and Dramatic Literature I 3</p> <p>A historical and analytical study of theater and drama from its origins to the 17th Century. Representative plays from each period of theater history will be studied, noting the interrelationship between scenic and production techniques and dramatic form. Cultural and historical elements which have influenced the rise and fall of new dramatic forms and practices will also be examined. Prerequisite: COM-120 or permission of the Division.</p>	<p>COM-352 Interpersonal Communication 3</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>
<p>COM-322 Broadcast Journalism 3</p> <p>Techniques of vocal production applied to various styles of announcing for radio and television. Emphasis will be placed upon writing and producing and the role of the announcer. Practical work required. Prerequisite: COM-215 or permission of the Division.</p>	<p>COM-353 Magazine Writing 3</p> <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 the Division.</p>
<p>COM-331 Public Relations Writing and Publicity 3</p> <p>Partnerships with public agencies allow the acquisition of professional-level experience and skills in publicity, promotion, and fund-raising in various settings. This course examines how organizations interact with print and broadcast news media to gain publicity. It explores general principles of media relations and then helps students develop the writing, presentation, and production skills used in media relations work. It explores other more controlled writing applications as well. Prerequisite: COM-233 or permission of the Division.</p>	<p>COM-355 Advanced Acting 3</p> <p>This course will focus on period acting styles, including interpretation, rehearsal, and the creation of roles. Intensive lectures and studios examining a specific topic, style, or range of acting styles will be the primary mode of learning. Students will be able to create historically based characters in the Greek, Elizabethan, and modern (ism) acting styles. Prerequisite: COM-252 or permission of the Division.</p>
<p>COM-332 Photojournalism 3</p> <p>Examines the applications of functions performed by pictures, how photography developed, the essential techniques used by professional photographers and editors. Students will learn to use photography to tell a story, set a mood, and capture the high point of an event.</p>	<p>COM-362 Scriptwriting 3</p> <p>This class will introduce 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. The student will develop 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 the Division.</p>
<p>COM-336 Special Topics in Communication Arts 3</p> <p>This course is designed to provide 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. Prerequisites: COM -115 or permission of Division.</p>	<p>COM-363 Media Law and Ethics 3</p> <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 also be considered in a case study approach.</p>
	<p>COM-364 Field Production 3</p> <p>This course teaches 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>

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 and the gateway course for the appropriate emphasis.</p>		
COM-366	Organizational Communication	3	COM-464	Media Management	3
<p>This course 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 the Division.</p>			<p>Course 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-475	Communications-Independent Learning	1-3
<p>This course engages the student in the study and development of technical theatre design and application skills related to stage costuming and makeup and property design. Students 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>Independent study in communication.</p>		
COM-368	Theatre Management	3	COM-480	Senior Project - Communication	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>			<p>Communication Arts 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 emphasis and permission of the instructor.</p>		
COM-370	Symbols and Imaging	3	COM-483	Advanced Newswriting and Reporting	3
<p>A course exploring 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>			<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. Students 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 the Division.</p>		
COM-399H	Honors Thesis/Project	3	COM-485	Editorial Operation	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>The various aspects of writing and editing newspapers and magazines will be considered. Practical experience will be provided. Prerequisite: ENG-120 or Advanced Standing in English.</p>		
COM-431	Public Relations Campaigns and Cases	3	COM-499T	Communication Transfer	3
<p>An advanced course that 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. Students also have the opportunity to prepare and implement a public relations campaign for a client. Prerequisites: COM-233 and COM-331.</p>			<p>COM-499TM Communication Transfer 3</p>		

COMP-ABNP Reqmt Met by Prerequisite Coursework	0	CONV-UGPV IWU Non Catalog Course	0-40
Used for DA purposes to fulfill Graduate Counseling prerequisites.		Used for conversion purposes and for future non-catalog coursework. Processed on EXTS as internal transfer credit.	
COMP-BIBL Reqmt Met by Prerequisite Coursework Ministry Bible Prerequisites	0	CRJ-181 Introduction to Criminal Justice	3
Used for DA purposes to fulfill Graduate Ministry's Bible Prerequisites		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.	
COMP-BIBL Reqmt Met by Prerequisite Coursework	0	CRJ-202 Introduction to Corrections	3
Used for DA purposes to fulfill Graduate Ministry Bible prerequisite		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.	
COMP-CHIS Rqmt Met by Prerequisite Coursework	0	CRJ-242 Modern Police Problems	3
Used for DA purposes to fulfill Graduate Ministry's Church History prerequisite		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.	
COMP-GRE Reqmt Met by Prerequisite Coursework	0	CRJ-246 Criminology	3
Used for DA purposes to fulfill Graduate Counseling prerequisites.		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.	
COMP-MAT Requirement Met by Test Score	0	CRJ-268 Crisis Intervention	3
Used for DA purposes to fulfill the College Level Math Competency Requirement		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.	
COMP-PSY Reqmt Met by Prerequisite Coursework	0	CRJ-270 Homeland Security	3
Used for DA purposes to fulfill Graduate Counseling prerequisites.		An overview of U.S. domestic defense and disaster strategies and theories, the history of modern terrorism, and key national policies.	
COMP-THE Rqmt Met by Prerequisite Coursework	0	CRJ-275 Police Administration	3
Used for DA purposes to fulfill Graduate Ministry's Theology Prerequisite.		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.	
CON-253 Contemporary Economic Problems: Free to Choose	2-3		
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.			
CONV-UGIW IWU Non Catalog Course	0-40		
Used for conversion purposes and for future non-catalog coursework. Processed on EXTS as internal transfer credit.			

<p>CRJ-281 Principles of Criminal Justice 3</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>	<p>CRJ-352 Criminal Investigation and Evidence 3</p> <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>CRJ-290 Colloquium in Criminal Justice 4</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>	<p>CRJ-355 Political Influence and the American Judiciary 3</p> <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>CRJ-309 Youth and Crime 3</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>	<p>CRJ-358 Criminal Law 3</p> <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>CRJ-318 Criminal Procedures 3</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>	<p>CRJ-422 Disaster Preparedness 3</p> <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>CRJ-320 Diversity in Criminal Justice 2</p> <p>Examination of racial, ethnic, gender and religious issues regarding criminal offenders, victims of crime and employees of the criminal justice system.</p>	<p>CRJ-424 Command and Control/Emergency Leadership 3</p> <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>CRJ-322 Terrorism and Counter-Terrorism 3</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>	<p>CRJ-452 Interpersonal Violence 3</p> <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>CRJ-324 Risk Analysis and Security 3</p> <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>CRJ-461 Ethics in Criminal Justice 3</p> <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>CRJ-463 Forensics 3</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-465	Constitutional Law/Civil Liberties	3	EAR-130	Earth Science	3
<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>			<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>		
CRJ-467	Research Methods and Analysis in Criminal Justice	3	EAR-131	Earth Science Lab	1
<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>			<p>Selected laboratory experiences in the earth sciences. One laboratory period. Prior or current enrollment in EAR-130 is required.</p>		
CRJ-472	Court Procedures	3	EAR-132	Earth Science (with Lab)	4
<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>			<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>		
CRJ-475	Criminal Justice-Independent Learning	1-3	EAR-140	Astronomy	3
<p>Individually arranged study and/or research in the area of criminal justice.</p>			<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.</p>		
CRJ-485	Practicum in Criminal Justice	3	EAR-160	Rocks and Minerals	3
<p>Designed to place the student with a criminal justice activity for a firsthand look at how the agency functions.</p>			<p>The occurrences, classification, and physical properties of rocks and minerals. Field tests and identification of hand specimens.</p>		
CRJ-486	Practicum in Criminal Justice and Homeland Security	1	EAR-475	Independent Learning-Earth Science	1-3
<p>Over the course of the criminal justice program, students will participate in field experiences. This course will permit students to further reflect on those experiences, conduct research, and integrate their research findings with their experiences.</p>			<p>Individually arranged study and/or research in the earth sciences. Prerequisite: Permission of instructor.</p>		
CRJ-490	Criminal Justice Senior Seminar	1	EAR-499T	Earth Science Transfer	3
<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>			<p>EAR-499TM Earth Science Transfer 3</p>		
CRJ-499T	Criminal Justice Transfer	3	ECO-205	Basic Economics	3
<p>CRJ-499TM Criminal Justice Transfer 3</p>			<p>An introduction to the principles essential to an understanding of fundamental economic problems within business and society.</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. 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></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	ECO-499T	Economics Transfer	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></p>		
ECO-454	International Economics	3	ECO-499TM	Economics Transfer	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></p>		
ECO-463	Economic Thought	3	EDS-215	Teaching and Learning in Inclusive Settings	3
<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>			<p>Emphasis is placed on the definition, characteristics, and methodology unique to learners who require mild interventions.</p>		
ECO-473	Independent Learning in Economics	1-3	EDS-324	Literacy for the Adolescent With Exceptional Needs	3
<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>			<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>		
ECO-483	Economics Practicum	1-4	EDS-331	Critical Issues in Severe Disabilities	3
<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>			<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>		
			EDS-332	Community-Based Instruction, Supports, And Services	3
<p></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>		

EDS-399H	Honors Thesis/Project	3	EDU-218	Critical Issues in Education	1-3
				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 education, 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.	
EDS-494	Student Teaching Seminar	1	EDU-240	Educational Psychology	3
	See EDU-495. Graded on a CR/NC basis.			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.	
EDS-496	Supervised Student Teaching in Special Education	15	EDU-250	Principles of Teaching	3
	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.			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.	
EDU-130	American Education	3	EDU-265	Literature for Adolescents	3
	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.			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.	
EDU-200	Educational Technology	1	EDU-271	Foundations in Early Childhood	3
	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.			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. Co-requisite: EDU-290.	
EDU-216	Literature, the Young Child, and Response	2			
	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>EDU-290 Elementary Education in a Pluralistic Society 3</p> <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>EDU-306 Mathematics Methods and Materials 3</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>
<p>EDU-292 Fine Arts for Elementary Teacher 3</p> <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>EDU-324 Literacy in Diverse Classrooms 3</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>
<p>EDU-295 Elementary School Observation/Participation (k-6) 1-3</p> <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>EDU-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 EDU355 (Social Studies Methods). Prerequisite: Admission to the Teacher Education Program. (Component of Junior Professional Year).</p>
<p>EDU-295D Observation and Participation in an Intercultural Setting 2</p> <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>EDU-355 Social Studies Methods 3</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>
<p>EDU-296 Secondary School Observation/Participation 1-2</p> <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>EDU-356 Science Methods 3</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-382MU Methods of Teaching Senior High/Junior High/Middle School 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-382PE Methods of Teaching Sr High/Jr High/Middle School Physical Education 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-382SC Methods of Teaching Senior High/Junior High/Middle School 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-382SP Methods of Teaching Senior High/Junior High/Middle School 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-382SS Methods of Teaching Sr High/Jr High/Middle School Social Studies 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-382TE Methods of Teaching Sr High/Jr High/Middle School Teaching 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-382VA Methods of Teaching Senior High/Junior High/Middle School 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-383EN Senior High/Junior High/Middle School Practicum - English 1-3
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. (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 1-3
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 1-3
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 1-3
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 1-3
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 1-3
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 1-3
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 1-3
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 1-3
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).

EDU-391	Junior Professional Year Clinical	3	EDU-491	Supervised Student Teaching in Elementary Scho (K-6)	15
<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>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>		
EDU-392	Intercultural Tutoring Practicum	1	EDU-492	Supervised Student Teaching Sr High/Jr High/MiddleSchool/Elementary	15
<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>(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>		
EDU-399H	Honors Thesis/Project	3	EDU-493	Elementary Education/Intercultural Student Teaching Experience	15
<p>See EDU-471LA.</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>		
EDU-471SC	Methods of Teaching Junior High/Middle School Science	3	EDU-495	Student Teaching Seminar	1
<p>See EDU-471LA.</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>		
EDU-471SS	Methods of Teaching Junior High/Middle School Soci alStudies	3	EDU-499T	Education Transfer	3
<p>See EDU-471LA.</p>			<p>EDU-499TM Education Transfer 3</p>		
EDU-475	Independent Learning inEducation	1-3			
<p>Individually arranged reading, problem solving, or research in current trends of education. Prerequisites: ENG-120 or equivalent, consent of professor, Director of Teacher Education, and Vice President for Academic Affairs.</p>					
EDU-490	Supervised Student Teaching in Senior/Junior High/Middle School (5-	15			
<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>					

ELE-499T	Elective Transfer	3	ENG-140	Communications I	3
					This course provides the student with a basic understanding of the writing process with emphasis on those skills necessary for successful expository writing.
ELE-499TM	Elective Transfer	3	ENG-141	Communications II	3
ENG-100	English Pre-Composition	3			This course 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.)"
			ENG-170	Introduction to Language	3
This course develops fundamental skills of writing. Students learn word-processing skills and practice techniques in the various stages of the writing process: pre-writing, drafting, revising, rewriting, and editing. The course requires three hours of scheduled class time during which students learn to write narrative, explanatory, compare/contrast essays; and it offers computer-assisted instruction in 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.					This course introduces students to 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. This course 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.
ENG-101	Critical Reading and Study Skills	3	ENG-180	Humanities World Literature	3
					Designed to acquaint students with major authors in Western world literature in the context of world history and culture--strengthening students' reading skills while deepening their intellectual, cultural, and spiritual experience.
Provides a foundation of reading strategies and skill practice enabling students to develop their comprehension and vocabulary skills for use within and after the university setting. Emphasis will include 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 coursework with a grade of "C" or higher in order to pass the course. Credits cannot be counted toward any major or General Education Requirement.			ENG-201	Speed Reading	1
ENG-120	English Composition	3			This one credit hour computer-assisted speed reading course is available for students preparing for graduate school or for students needing to do a great deal of reading for upper-level courses. In addition to speed reading, students may work on comprehension and vocabulary skills as needed. Placement tests will determine skill needs. This course is not available to students who have taken ENG-101, Critical Reading and Study Skills.
Students may complete this course (with a grade of "C" or higher) to meet the writing competency requirement, unless placed by SAT, ACT, and/or high school record into ENG-100 (English Pre-Composition or an advanced writing course. A grade of "C-" or below requires the student to repeat the course until competency is reached. Credits cannot be applied to an English or Writing major or minor. This course develops student's skills in expository, analytical, and research methods of writing. Students will write in multiple aims including research papers, using the writing process of pre-writing, drafting, revising, and editing. Prerequisite: Adequate SAT/ACT scores or successful completion of ENG-100.			ENG-203	TESOL Theoretical Foundations	3
ENG-121	English Composition II	3			This course introduces students to major theories in language teaching, including general linguistic theory; audiolingualism; communicative language teaching; second language acquisition; and the synthesis of cognitive, affective, and cultural factors in teaching English as a Second Language.
This course will prompt students to develop writing skills by using pre-writing, drafting, revising, and editing. This is a process-oriented class in which 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. The course will also include impromptu writing and documented research essay.			ENG-220	Approaches to Literary Analysis	3
					This is 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.

ENG-233	American Literature Survey	3	ENG-240	British Literature Survey	3
<p>A chronological study of the development of an American literature, including Black literature, 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>			<p>A chronological study of the development of British literature. Beginning with Chaucer and ending with the Twentieth Century, this course focuses on selected authors as well as on the historical/philosophical milieu from which their literature grows.</p>		
ENG-235	American Literature (Literary Period or Region)	3	ENG-241	Studies in English Grammar	3
<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.).</p>			<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>		
ENG-236	British Gothic/Romantic Novel	3	ENG-242	Literature and Ideas	3
<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, which will include a selection of Shelley, Robert Louis Stevenson, Bram Stoker, Charlotte Bronte, and Walter Scott.</p>			<p>The course traces the impact of a particular literary focus or theme that recurs through British and /or American literature. Examples would include literary satire, war literature, literature of protest, etc.</p>		
ENG-237	British Literature (Literary Period or Region)	3	ENG-242CC	Council for Christian Colleges	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.</p>			<p>ENG-260 The British Novel 3</p> <p>A chronological study of the development of the British novel. Selections begin with Daniel Defoe and move to include the Twentieth Century. 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 as well, including romanticism, realism, and naturalism.</p>		
ENG-238	C.S. Lewis	3	ENG-261	The American Novel	3
<p>This course offers 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 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-239	Nineteenth-Century British Literature and Culture	3	ENG-290	The European Novel	3
<p>Careful reading and study of selected nineteenth-century British novelists and poets, 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 contemporary contrasts between British and American cultures.</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 milieu.</p>		

ENG-305	Second Language Acquisition	3	ENG-370	Twentieth-Century American Literature	3
<p>This course examines the fundamental linguistic theories, principles, and processes of language acquisition and development. The main theoretical areas include phonetics, phonology, morphology, vocabulary, syntax, semantics/pragmatics, and the role of cognitive development. The acquisition of language will be explored from linguistic, psychological, and social perspectives.</p>			<p>Close reading and critical study of selected works of major American poetry and prose of the twentieth century. Special attention will also be paid to the characteristics and implications of realism, modernism, and postmodernism.</p>		
ENG-350	TESOL Assessment and Testing	3	ENG-371	American Renaissance	3
<p>This course will investigate concepts and theories in the field of language assessment. It will explore 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>			<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>		
ENG-352	History of English Language	3	ENG-372	Hawthorne	3
<p>A linguistic introduction to the history of English by the application of varied linguistic techniques to Old, Middle, and Modern English.</p>			<p>Study of Hawthorne--the man, his times, his aesthetics, and his works--centered in study of his American Notebooks, his short stories and essays, and three of his novels, including <i>The Scarlet Letter</i> and <i>The Marble Faun</i>.</p>		
ENG-360	Modern Drama	3	ENG-373	American Fiction	3
<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 theatrical trends such as realism, expressionism, and the absurd.</p>			<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, followed by studies of the novel, including Hawthorne, Melville, and Twain.</p>		
ENG-361	Shakespeare	3	ENG-374	American Poetry	3
<p>Focus on Shakespeare's drama, including comedies and tragedies. Method features analysis of text and integration of selected critical literature.</p>			<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>		
ENG-362	Victorian Literature	3	ENG-383TE	Senior High/Junior High/Middle School Practicum - Teaching English	3
<p>Careful reading of major poetry and prose (Lord Tennyson through Dante Rossetti) with attention to the historical and philosophical milieu (Pre-Raphaelite painters, for example). Selected critical literature integrated with text analysis.</p>			<p>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 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>		
ENG-364	Romantic Literature	3	ENG-399H	Honors Thesis/Project	3
<p>Careful reading of major poetry and prose (William Blake through Keats) with attention to the historical and philosophical milieu. Selected critical literature integrated with text analysis.</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>					

<p>ENG-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>ENG-469 Post-1900 British Literature - Advanced Study 3</p> <p>Designed to provide opportunity for an occasional course emphasizing a specific author or group of authors for advanced students--for example, a study in World War I poets.</p>
<p>ENG-430 Contemporary Literature 3</p> <p>A careful study of selected literature by living 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 Jewish, black, and women authors.</p>	<p>ENG-475 Independent Learning in English Literature 1-3</p> <p>Open to a limited number of well-qualified students; enrollment usually initiated by the Division; course under direction of Division Chair.</p>
<p>ENG-440 Literary Criticism 3</p> <p>A study of historical and contemporary theories of criticism, from Plato and Aristotle through the New Criticism, structuralism, deconstruction, the New Historicism, and other modern approaches. Theory is applied to selected works, both to test varied theories' contribution and validity and to aid the student in developing an eclectic and valid theory of his own.</p>	<p>ENG-475CC Council for Christian Colleges and Universities 1-3</p>
<p>ENG-455 Approaches to Modern English Grammar 3</p> <p>Comparative critical study of several grammars of modern English, with linguistics emphasis.</p>	<p>ENG-476 American Literature to 1830 3</p> <p>A study of "firsts"--reading in Colonial writings, including voyages and travels, polemical works, sermons, histories, biographies, diaries, journals, almanacs, and poetry, followed by study of the independence documents and the beginnings of belles letters: Romantic poetry, essay, short story, drama, and novel.</p>
<p>ENG-462 Milton 3</p> <p>Close reading of complete text of Paradise Lost. 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>	<p>ENG-477 Melville 3</p> <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>ENG-466 Chaucer 3</p> <p>A literature/linguistics study in which The Canterbury Tales, read in Chaucer's Middle English dialect, are given in-depth study, as well as the semantics, phonology, morphology, and syntax of Middle English.</p>	<p>ENG-478 Pre-Twentieth Century American Literature - Advanced Study 3</p> <p>Designed to provide opportunity for an occasional course emphasizing a specific author or group of authors for advanced students; this course has been offered as a study in Mark Twain, a study in Henry James, a study in Robert Frost, a study in Longfellow/Lowell/Holmes. May be repeated.</p>
<p>ENG-468 Pre-Twentieth Century British Literature - Advanced Study 3</p> <p>Designed to provide opportunity for an occasional course emphasizing a specific author or group of authors for advanced students--for example, a study in Walter Scott, Charlotte Bronte, Charles Dickens, T.S. Eliot, or World War I poets.</p>	<p>ENG-479 Post-1900 American Literature - Advanced Study 3</p> <p>Designed to provide opportunity for an occasional course emphasizing a specific author or group of authors for advanced students; this course has been offered as a study in six modern novelists.</p>
	<p>ENG-481 English Capstone 3</p> <p>This capstone course 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 of how they might implement what they have learned into constructive life skills.</p>

ENG-499	English Honors	1-3	ENT-455	Entrepreneurial Planning and Strategy	3
Prerequisite: Junior or senior standing with a 3.0 grade-point average.			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.		
ENG-499T	English Transfer	3			
ENG-499TM	English Transfer	3			
ENS-231LT	Introduction to Environmental ScienceLab	0	ENT-483	Entrepreneurship Practicum	1-3
ENS-231T	Introduction to Environmental Science	4	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.		
ENT-340	Entrepreneurship & New Venture Creation	3	FIN-210	Managerial Finance	3
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.			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.		
ENT-341	Organizational Intrapreneurship	3	FIN-250	Personal and Family Finance	3
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.			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.		
ENT-399	Service Learning	3	FIN-330	Investments	3
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.			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.		
			FIN-383	Real Estate Investment and Marketing	3
			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.		

FIN-384	Finance Practicum	1-3	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	FIN-499T	Finance Transfer	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>			FIN-499TM	Finance Transfer	3
FIN-430	Investment Management	3	FINA-180	Humanities Fine Arts	3
<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>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-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>A course designed to develop the receptive and expressive skills in the use of the French language. All four language skills receive attention. Language laboratory required.</p>		
FIN-450	Investment Services: Series 7	3	FRE-116	Beginning French II	3
<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>			<p>A course 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>		
FIN-474	Independent Learning in Finance	1-3	FRE-235	Intermediate French I	3
<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>			<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
			<p>A general review and continued development of the four language skills. Language laboratory required. Prerequisites: FRE-115, FRE-116, and FRE-235 or equivalent.</p>		
			FRE-350	Advanced Topics in French	1-3
			<p>Private lesson fee may be charged. May be repeated.</p>		
			FRE-499T	French Transfer	3

GEO-201	Physical Geography	3	GRE-499TM	Greek Transfer	3
<p>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.</p>					
GEO-202	Political and Cultural Geography	3	HBR-201	Beginning Hebrew I	3
<p>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.</p>			<p>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.</p>		
GEO-499T	Geography Transfer	3	HBR-202	Beginning Hebrew II	3
			<p>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.</p>		
GEO-499TM	Geography Transfer	3	HBR-422	Hebrew Bible	3
			<p>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.</p>		
GRE-201	Beginning Greek I	3	HBR-475	Independent Learning-Hebrew	1-3
<p>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.</p>			<p>Individually arranged reading, research, and issues relating to the Hebrew language. Prerequisite: HBR-201, HBR-202 or its equivalent.</p>		
GRE-202	Beginning Greek II	3	HNR-100	Honors College Forum	0-1
<p>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.</p>			<p>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.</p>		
GRE-422	Greek Bible	3	HNR-210	Honors Colloquia	1-3
<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>			<p>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.</p>		
GRE-475	Independent Learning-Greek	1-3			
<p>Individually arranged reading, research, and issues relating to the Greek language. Prerequisite: GRE-201, GRE-202 or its equivalent.</p>					
GRE-499T	Greek Transfer	3			

<p>HNR-215 News and Views Through the Eyes of Faith 1</p> <p>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.</p>	<p>HNR-410 Honors Colloquia 1-3</p> <p>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.</p>
<p>HNR-310 Honors Colloquia 1-3</p> <p>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.</p>	<p>HNR-497 Honors Scholarship Project I 1-3</p> <p>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>
<p>HNR-320 Topics in Christian Scholarship 3</p> <p>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.</p>	<p>HNR-498 Honors Scholarship Project II 1-3</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>HNR-350 Honors Research Seminar 3</p> <p>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.</p>	<p>HNR-499 Honors Scholarship Presentation 0-1</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>HNR-399H Honors College Thesis/Project 3</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>

HST-102	American Civilization After 1865	3	HST-202	World Civilization After 1500	3
<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.</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.)</p>		
HST-103	Recent History and Politics	3	HST-211	American Civilization to 1865	3
<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>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>		
HST-160	Western Civilization	3	HST-212	American Civilization After 1865	3
<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>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.</p>		
HST-180	Humanities World Civilization	3	HST-220	Topics in History	3
<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>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>		
HST-185	Foundations of Civilization to 1648	3	HST-230	Colonial Latin America	3
<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>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-190	The West and the World After 1648	3	HST-231	National Latin America	3
<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>A survey of the political, social, cultural and religious history of Latin America from the eve of Independence to the recent past.</p>		
HST-201	World Civilization to 1500	3	HST-250	Contemporary Affairs	1
<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>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>		
			HST-261	Contemporary Modern Problems	2-3
			<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>HST-290 Making History: Historians, Historical Techniques and Historiography 3</p> <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.</p>	<p>HST-321 History of the Muslim-Christian Encounter 3</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>
<p>HST-295 American Portraits 1-3</p> <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>HST-341 History of England to 1688 3</p> <p>This course is a survey of English history from Celtic and Roman times to 1688, emphasizing religions, 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>
<p>HST-300 Western/American Intellectual and Social History 3</p> <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, or Sociology. Prerequisite: Any course from HST-180, HST-211, HST-212, HST-103, HST-185, HST-190, or POL-100.</p>	<p>HST-342 History of England 1688 - Present 3</p> <p>This course is a survey of English history from 1688 to present. It will emphasize religious, political, social, and cultural developments between the Glorious Revolution and the Present. Prerequisite: HST-180 or HST-190.</p>
<p>HST-301 American Foreign Relations 3</p> <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 or History. Prerequisite: HST-211, HST-212, or POL-100.</p>	<p>HST-355 Modern Mexico 3</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>
<p>HST-302 American Political Parties 3</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 or History majors. Prerequisite: HST-211, HST-212, or POL-100.</p>	<p>HST-360 History of England 3</p> <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>
<p>HST-312 Medieval Civilization 3</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>	<p>HST-361 History of Russia and Eastern Europe 3</p> <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>HST-320 American Economic History 3</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>	<p>HST-361CC Council for Christian Colleges and Universities 3</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-370CC	Council of Christian Colleges and Universities	3	HST-450	History and Social Science Seminar	3
HST-380	History of Middle East and Africa	3	<p>A survey of historical writing and philosophies of history. Practice in the methodology of research and writing. Required of all History, Social Studies, and Social Studies Education majors. Recommended for Political Science majors. Prerequisite: Upper-division status.</p>		
<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>			HST-450H	History and Social Science Seminar - Honors College Thesis	3
HST-381	History of East Asia	3	HST-475	Independent Learning in History	1-3
<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>Individually arranged research and writing in history. Prerequisite: Consent of the department.</p>		
HST-395	Renaissance and Reformation	3	HST-499	History Honors	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>Prerequisites: Junior or senior standing with 3.0 GPA and consent of the department.</p>		
HST-399H	Honors College Thesis - History	3	HST-499T	History Transfer	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>			HST-499TM	History Transfer	3
HST-400	American Constitutional History	3	INT-122	Short-Term Missions (orientation)	1
<p>A study of the origin and development of the United States Constitution with emphasis on leading Supreme Court decisions. Gives credit for History or Political Science majors. Prerequisites: HST-211 and HST-212 or POL-100.</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>		

INT-480	Missions and Changing the World	1	LAT-202	Beginning Latin II	3
<p>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.</p>			<p>A continuation of LAT-201, this course prepares the student for the translation of Latin literature. Prerequisite: LAT-201.</p>		
INT-499CC	Council for Christian Colleges	1-4	LAT-320	Intermediate Latin I	3
INT-499T	Intercultural Studies Transfer	3	<p>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.</p>		
INT-499TM	Intercultural Studies Transfer	3	LAT-321	Intermediate Latin II	3
LANG-215	Beginning Mandarin Chinese I	3	<p>A continuation of LAT-320, this course largely consists of readings from more advanced Latin authors such as Virgil and Tacitus. Prerequisite: LAT-320.</p>		
<p>This is a comprehensive course at the beginning level which includes learning basic vocabulary and expressions in the Mandarin-Chinese language. The course meets the General Education intercultural competency provided it is passed by a grade of "C" or above.</p>			LAT-475	Independent Learning-Latin	1-3
LANG-216	Beginning Mandarin Chinese II	3	<p>Individually arranged reading, research, and issues relating to the Latin language. Prerequisite: LAT-201, LAT-202 or its equivalent.</p>		
<p>This is a continuing course to follow Beginning Mandarin Chinese I, LANG-215. The course will continue to build students' knowledge of the Chinese language in pronunciation, speaking, reading, writing, and grammar. It will also include instruction and experience in Chinese culture and social customs. The course will enable students to communicate with Chinese people and to have a foundation for higher level Chinese language study. Prerequisite: LANG-215.</p>			LDR-120	Exploration of Life Purpose and Individual Uniqueness	1
LANG-499T	Foreign Language Transfer	3	<p>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.</p>		
LANG-499T	Foreign Language Transfer	3	LDR-150	Introduction to Life Calling	3
LAT-201	Beginning Latin I	3	<p>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.</p>		
<p>An introduction to the basic forms, syntax, and vocabulary of Latin.</p>			LDR-200	The Servant Leader: Foundations Of Leadership	3
			<p>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.</p>		

<p>LDR-210 Introduction to Leadership Development 0-1</p> <p>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.</p>	<p>LDR-300 The Relational Leader (the Leader and Others) 3</p> <p>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.</p>
<p>LDR-225 Student Leadership Practicum 0-1</p> <p>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.</p>	<p>LDR-310 Lifeskills, Career and Leadership 3</p> <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>
<p>LDR-235 High Adventure Leadership Experience 1</p> <p>This course involves high adventure experiential learning (backpacking, canoeing, rappelling) with a focus on developing leaders through mentoring, self-discovery and personal challenge.</p>	<p>LDR-325 Leadership Internship 1-3</p> <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>
<p>LDR-245 Peer Leader Practicum 1</p>	<p>LDR-335 Independent Study in Leadership 1-3</p> <p>This course allows a student to assist in ongoing research projects being conducted through the Servant Leadership Research Center at IWU. Students will conduct a literature review in a specific leadership research area while being actively involved in a research project. Prerequisites: LDR-200 and advisor approval.</p>
<p>LDR-255 Honors Leadership Practicum 0-1</p> <p>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.</p>	<p>LDR-350 The Team Leader (the Leader and Bldg Community) 3</p> <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>
<p>LDR-265 International Servant Leadership Experience 1-3</p> <p>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.</p>	<p>LDR-400 The Transforming Leader (the Leader and Change) 3</p> <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>

LDR-420	The Authentic Leader: the Leader and Self	3	MAT-100	Analysis of Data & Research	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>			<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-450	Leadership Seminar (current Issues in Leadership)	3	MAT-100B	Statistics for Business Research and Data Analysis	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>			<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-475	Leadership Project (leading for Community Improvement)	3	MAT-101	Basic Mathematics	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>			<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-475H	Leadership Project (leading for Community Improvement) Honors	3	MAT-104	Sample Surveying	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>			<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 or a grade of "C" or above in MAT-101.</p>		
LIT-499T	Literature Over 200 Transfer	3	MAT-107	College Mathematics	3
LIT-499TM	Literature Over 200 Transfer	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 functions and graphing, coordinate geometry, logic, numeration systems, regular polygons and circles, measurement in geometry, and chaos and fractals. Application of these topics will be emphasized. This course will meet General Education requirements. Prerequisite: Math SAT above 410 or grade of "C" or above in MAT-101.</p>		
MA-COMP	Undergraduate Math Competency	0			
<p>Pseudo course created to accommodate test score equivalencies that meet Math Competency. Awarded from the TSUM screen to meet prerequisites and Degree Audit specifications.</p>					

<p>MAT-108 Modern Concepts of Mathematics 3</p> <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 every day living.</p>	<p>MAT-120 College Algebra/Trigonometry 4</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, Binomial Theorem, trigonometric identities, analytic trigonometry and conic sections. Prerequisite: Equivalent of two years of high school algebra; Math SAT is required to be above 460.</p>
<p>MAT-110 Business Mathematics 4</p> <p>A study of the basic arithmetic and algebra used most commonly in general business operations.</p>	<p>MAT-201 Orientation to Mathematics 2</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>
<p>MAT-111 Mathematics for Elementary Teachers 3</p> <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>MAT-204 Applied Statistics I 3</p> <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 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>
<p>MAT-112 General Statistics 3</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 random variables, and probability distributions, linear regression and correlations, sampling and hypothesis testing. Prerequisite: Math SAT above 460 or a grade of "C" or above in MAT-104.</p>	<p>MAT-223 Introduction to Mathematics Via Discrete Processes 3</p> <p>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.</p>
<p>MAT-113 College Algebra 3</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.</p>	<p>MAT-253 Calculus I 4</p> <p>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.</p>
<p>MAT-114 Trigonometry 3</p> <p>Topics to be covered include trigonometric functions, analytic trigonometry, polar coordinates, and conic sections. Prerequisite: MAT-113 or equivalent.</p>	

MAT-254	Calculus II	4	MAT-322	Mathematical Modeling I	4
<p>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.</p>			<p>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.</p>		
MAT-255	Calculus III	4	MAT-324	Mathematical Modeling II	4
<p>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.</p>			<p>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.</p>		
MAT-280	Linear Algebra	3	MAT-333	Modern Geometry	4
<p>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.</p>			<p>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.</p>		
MAT-304	Applied Statistics II	3	MAT-342	Number Theory	3
<p>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.</p>			<p>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-305	Statistics for Social Sciences	3	MAT-344	Modern Abstract Algebra	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 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 SAT1450 (SAT410) or ACT19 or MAT-112 or MAT-204.</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>		
			MAT-353	Differential Equations	3
			<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. Prerequisite: MAT-254 and MAT-280.</p>		

MAT-354	Introduction to Operations Research	3	MAT-446	Advanced Calculus	3
<p>An introduction to linear programming, integer programming, and dynamic programming. This course will be offered as needed. Prerequisite: MAT-280.</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>		
MAT-363	Mathematical Statistics I	3	MAT-455	Point Set Topology	3
<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. Prerequisite: MAT-254 and MAT-322 or equivalent.</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>		
MAT-364	Mathematical Statistics II	3	MAT-456	Elementary Real Analysis	3
<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>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>		
MAT-370	Statistical Research Design I	3	MAT-457	Complex Variables	3
<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>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-371	Statistical Research Design II	3	MAT-475	Independent Learning-Mathematics	1-3
<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>Individually arranged reading, problem solving, or research in higher mathematics or statistics. Prerequisite: Approval of department.</p>		
MAT-373	Numerical Analysis	3	MAT-481	History & Foundations of Mathematics	3
<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>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>		
MAT-399H	Honors College Thesis/Project	3			

MAT-485	Mathematics Internship	1-3	MGT-421	Strategies in Marketing Management	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. Graded on a CR/NC basis. Limit of 4 hours of credit may be applied to the mathematics major.</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-490	Math Senior Seminar	2	MGT-425	Issues in Ethics	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 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-499T	Mathematics Transfer	3	MGT-432	Organizational Behavior	3
			<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>		
MAT-499TM	Mathematics Transfer	3	MGT-435	Personnel Management	3
			<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-205	Professional Communication	3	MGT-440	Management of Employee Relations in a Service Environment	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>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-302	Management and Leadership	3	MGT-441	Philosophy of Corporate Culture	3
<p>A study of the techniques of management and leadership and their application to the development of improved managerial effectiveness.</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-412	Financial Planning and Control Systems	3	MGT-450	Negotiation/Conflict Resolution	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>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	MKG-353	Selling and Relationship Management	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>			<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 Business Division.</p>		
MGT-490	Human Resources Development	2	MKG-357	Advertising and Promotion	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>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. Prerequisites: MKG-210 and Admission to the Business Division.</p>		
MGT-496	Applied Management Project	3	MKG-370	E-Commerce	3
<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>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-499T	Management Transfer	3	MKG-386	Marketing Practicum	1-3
			<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>		
MGT-499TM	Management Transfer	3	MKG-386CC	Council of Christian Colleges and Universities	3
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-298. Requires admission to a Business Division major or consent of the professor.</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 Business Division.</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 Business Division.</p>					

MKG-424	Strategic Marketing	3	MKG-499TM Marketing Transfer	3
<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-444	Pricing	3	MNG-210 Management Principles	3
<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>			<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>	
MKG-476	Independent Learning in Marketing	1-3	MNG-324 Small Business Management	3
<p>An opportunity for advanced students to pursue further study in a marketing field of interest in which they have exhausted catalog offerings. Prerequisites: MKG-210 and Admission to the Business Division.</p>			<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>	
MKG-496	Marketing Seminar	3	MNG-328 Human Resource 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>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>	
MKG-498	Marketing Seminar - Research	1-3	MNG-334 Production and Operations Management	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-298, MNG-280 and either senior classification or written permission of the Business Division.</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-499	Marketing Seminar - Presentation	1	MNG-378 Comparative Management Styles	3
<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>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-499T	Marketing Transfer	3		

MNG-385	Management Practicum	1-3	MNG-499TM	Management Transfer	3
<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-399	Service Learning	3	MSC-101	Introduction to Military Science	1
<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>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>		
MNG-443	Organizational Behavior	3	MSC-102	Introduction to Leadership	1
<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>			<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>		
MNG-475	Independent Learning in Management	1-3	MSC-201	Leadership/Military Tactics	2
<p>An opportunity for advanced students to pursue further study in a management field of interest in which they have exhausted catalog offerings. Prerequisites: MNG-210 and Admission to the Business Division.</p>			<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>		
MNG-498	Management Seminar - Research	2	MSC-202	Leadership/Team Development	2
<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>			<p>Continued study of tactical leadership development. Focuses on operations orders, communication skills, weapons, map reading, and drill and ceremony.</p>		
MNG-499	Management Seminar - Presentation	1	MSC-299X	Experimental/Developmental Topics	1-6
<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>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>		
MNG-499T	Management Transfer	3	MSC-301	Military Leadership and Operations 1	4
			<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>		
			MSC-302	Military Leadership and Operations 2	4
			<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>		

MSC-401	Leadership Challenges and Goal Setting	4	MUS-114	Class Voice	1
<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>			<p>A study of basic vocal technique, breathing, resonant tone production, note reading, and fundamental vocabulary for singers; aims at developing healthy vocal habits. This course is open to voice electives, non-majors, and non-minors.</p>		
MSC-402	Transition to Lieutenant	4	MUS-115	Class Piano Level B	1
<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>			<p>This course includes two-part and three-part textures, triad playing, I, IV, V, V7 chords in root position and inversion for progressions and harmonization, elementary accompaniment styles, seven major scales, pedaling, transposition, and sight-reading. Prerequisite: MUS-110 or equivalent.</p>		
MSC-499	Independent Study in Military Science	1-3	MUS-117	Beginning Piano/Non-Major I	1
<p>An opportunity to investigate a topic of particular interest to the student under the supervision of a faculty member. Extensive reading, research, analysis, and writing. Prerequisite: permission of the department. A total of 16 hours of credit may be earned, but no more than 3 in any one semester or term.</p>			<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>		
MUS-100	Applied Study - Non-Majors	1	MUS-118	Beginning Piano/Non-Major II	1
<p>Applied Study for non-music majors; requires a private lesson fee. Meets 1/2 hour once each week with adjunct faculty.</p>			<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>		
MUS-101	Applied Study - Level I (majors)	1	MUS-119	Keyboard Skills I	1
<p>Study of applied music at the freshman level; requires a private lesson fee.</p>			<p>This course focuses on harmonization with primary chords and V7/V 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>		
MUS-105	Class Piano Level I	2	MUS-120	Diction for Singers	2
<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>			<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.</p>		
MUS-110	Class Piano Level A	1	MUS-124	Guitar Techniques for Leading Worship	1
<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, sight-reading, ensemble, transposition, and all major tetrachord scales .</p>			<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>		
MUS-111	Applied Study - (music Minors)	1			
<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			
<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>					

MUS-149	Introduction to Contemporary Worship	2	MUS-170	Music Appreciation	2-3
<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>			<p>A review of the history of music with the interest 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.</p>		
MUS-159	Fundamentals of Music Theory	2	MUS-171	Studio Recording I	3
<p>This course will teach students to read notes (pitch and rudimentary rhythm) and to connect graphic images to appropriate keys of a keyboard. This course will also include studies in scales, intervals and triads.</p>			<p>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. Prerequisite: Taken by permission of the Division.</p>		
MUS-160	Introduction to Music Theory	2	MUS-173	Handbell Ensemble	0-1
<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>			<p>This course will offer students an opportunity to develop their musicianship, music reading and performance skills through the study of handbell literature.</p>		
MUS-162	Music Theory I	3	MUS-174	Women's Chorus	0-1
<p>Review of intervals and scales. 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>			<p>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 two times 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.</p>		
MUS-164	Ear Training I	2	MUS-175	Chapel Ensemble	0-1
<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 range. To be taken concurrently with Music Theory I.</p>			<p>This course will provide an opportunity for singers and instrumentalists to adequately train and rehearse in preparation to leading worship in 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 (repeatable for 0 hr credit).</p>		
MUS-165	Class Piano Level II	2	MUS-176	Tuba/Euphonium Quartet	0-1
<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>			<p>This quartet provides changer music as well as variety of offerings from classical, hymn arrangements and lighter selections. Entrance to the ensemble is by audition.</p>		
MUS-167	Opera Workshop	0-3	MUS-177	Clarinet Quartet	0-1
<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.</p>			<p>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.</p>		

MUS-178	Saxophone Quartet	0-1	MUS-185	Flute Ensemble	0-1
<p>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.</p>			<p>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.</p>		
MUS-179	Woodwind Quintet	0-1	MUS-186	String Quartet	0-1
<p>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.</p>			<p>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.</p>		
MUS-180	Humanities Fine Arts	3	MUS-187	Trombone Ensemble	0-1
<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>			<p>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.</p>		
MUS-181	Guitar Ensemble	0-1	MUS-188	Woodwind Ensemble	0-1
<p>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.</p>			<p>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.</p>		
MUS-182	Piano Ensemble	0-1	MUS-189	Honors Brass Quintet	0-1
<p>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.</p>			<p>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.</p>		
MUS-183	IWU Jazz Combo	0-1	MUS-190	Opera Theater	0-3
<p>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.</p>			<p>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.</p>		
MUS-184	World Music Ensemble	0-1	MUS-192	University Chorale	0-1
<p>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.</p>			<p>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 four times a week. Participants enrolled in the first semester are expected to enroll the second semester.</p>		
			MUS-193	University Singers	0-1
			<p>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.</p>		

MUS-194	Chamber Singers	0-1	MUS-200	Recital Attendance	0
<p>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. Participants enrolled in the first semester are expected to enroll the second semester.</p>			<p>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.</p>		
MUS-195	Percussion Ensemble	0-1	MUS-201	Applied Study- Level II (majors)	1
<p>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.</p>			<p>Study of applied music at sophomore level of study requires private lesson fee.</p>		
MUS-196	Wind Ensemble	0-1	MUS-205	Class Piano Level III	2
<p>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.</p>			<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>		
MUS-197	Jazz Ensemble	0-1	MUS-210	Class Piano Level C	1
<p>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.</p>			<p>Greater independence of hands in repertoire pieces of two-, three-, and four-part textures, more challenging rhythms, chords, and sight-reading (ensemble and solo), seven major scales (hands together), four minor scales, alto and tenor clef score-reading, I, IV, II, V, V7 in progression drills and harmonization. Prerequisite: MUS-115 or equivalent.</p>		
MUS-198	Orchestra	0-1	MUS-211	Applied Study - (music Minors)	1
<p>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.</p>			<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>		
MUS-199	Brass Choir	0-1	MUS-212	Applied Study - (music Minors)	1
<p>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.</p>			<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>		
			MUS-215	Class Piano Level D	1
			<p>Major scales and arpeggios to four sharps and four flats, parallel minor scales, transposition of chordal pieces, four-part hymns, patriotic songs, transposition in score-reading, substitute chords (vi and ii) and V7/V used for harmonization and early intermediate repertoire. Prerequisite: MUS-210 or equivalent.</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 ensemble repertoire.</p>		

MUS-220	Organ Class	1	MUS-260	Hymnology	1
<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>			<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>		
MUS-245	Piano Pedagogy I	2	MUS-261	Music Theory II	3
<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>			<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>		
MUS-246	Piano Pedagogy II	2	MUS-263	Ear Training II	2
<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>			<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>		
MUS-248	Keyboard Literature	2	MUS-264	Music Theory III	3
<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 literature. Prerequisite: previous keyboard study of the upper intermediate/early advanced level.</p>			<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>		
MUS-254	Church Music I - Christian Education/Administration	3	MUS-265	Form and Analysis	2
<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>			<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>		
MUS-255	Contemporary Keyboard for the Church Accompanist	1	MUS-266	Ear Training III	1
<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 beginning in Fall 2002. Prerequisites: MUS-310 and audition. Limited to 10 each semester.</p>			<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>		
			MUS-268	Counterpoint	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>		

MUS-275	Introduction to Computer Applications in Music	1	MUS-286	Advanced Conducting	2
<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>			<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 multimetric 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>		
MUS-280	Choral Techniques	2	MUS-287	Marching Band Techniques	1
<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 up 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>			<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>		
MUS-281	Woodwind Techniques	2	MUS-290	Jazz Improvisation	1
<p>An introduction to the technique of playing woodwind instruments. Emphasis is placed on the concept of the woodwind embouchure and knowledge of methods.</p>			<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>		
MUS-282	String Techniques	2	MUS-295	Show Choir Techniques	2
<p>An introduction to the technique of playing string instruments. Violin, viola, cello, and string bass are equally emphasized.</p>			<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>		
MUS-283	Percussion Techniques	2	MUS-300	Arranging	1
<p>An introduction to the techniques of playing all percussion instruments. Emphasis is placed on tympani, snare drums, and mallet instruments.</p>			<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>		
MUS-284	Brass Techniques	2	MUS-301	Applied Study-Level III (majors)	1
<p>An introduction to the techniques of playing brass instruments. The trumpet, French horn, baritone, trombone, and tuba are equally emphasized.</p>			<p>Study of applied music at junior level of study, requires private lesson fee. Meets one hour each week.</p>		
MUS-285	Beginning Conducting	2			
<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-305	Class Piano Level IV	2	MUS-354	Church Music II - Worship	3
<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>			<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>		
MUS-310	Class Piano Level E	1	MUS-362	Vocal Literature and Pedagogy	2
<p>Intermediate repertoire involving double notes, ornaments, full chords in two-part to four-part textures, three-part open vocal scores, all major and minor scales and arpeggios, review of harmonization involving substitute and V7/V chord progressions, accompaniment to art songs and four-part hymn transposition. Prerequisite: MUS-215 or equivalent.</p>			<p>Designed for the upper-class voice major to introduce major works in the field of literature for the voice. Important art songs and cycles, sacred vocal works, and selected operas will be studied to give the student better insight into this area of study. Offered alternate years.</p>		
MUS-311	Applied Study - (music Minors)	1	MUS-363	Instrumental Methods	2
<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>			<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>		
MUS-315	Class Piano Level F	1	MUS-364	Organ Pedagogy	2
<p>More challenging ensemble pieces and art song accompaniments, as well as more advanced literature from all style periods; sight-reading hymns and contrapuntal styles, reading involving four-part vocal scores and F instrumental transposition, harmonization with and without chord symbols involving secondary and secondary dominant chords, improvisation for children's activities, and transposition of "Star Spangled Banner." Prerequisite: MUS-310.</p>			<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>		
MUS-318	Orchestration	2	MUS-365	Vocal Pedagogy	1
<p>Study of the characteristics of orchestra and other instruments and techniques for scoring for these instruments in various combinations. Prerequisite: MUS-261.</p>			<p>Students will study teaching methods, philosophies of singing, psychology of singing, physiology, vocal health, breathing, phonation, registration, resonance, articulation, historic singers, and current classical singers. Current pedagogical publications will also be included in course studies. Prerequisite: MUS-120.</p>		
MUS-321	Keyboard Skills II	1	MUS-366	Song Literature	1
<p>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-320.</p>			<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.</p>		
MUS-345	Piano Pedagogy	2	MUS-371	Music History and Literature I	3
<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>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 to about 1700. Offered Fall.</p>		

MUS-372	Music History and Literature II	3	MUS-445	Church Music Senior Project	2
<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 1700 into the Twentieth Century. Offered Spring.</p>			<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>		
MUS-380	Private Studies in Conducting	1	MUS-446	Senior Recital/Project in Theory/Composition	2
<p>Advanced studies of conducting. For upper-class majors. By permission of the instructor. Requires applied lesson fee. Offered on demand.</p>			<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>		
MUS-383	Elementary Music Methods for Music Majors	2	MUS-450	Church Music Practicum	2
<p>A survey of activities in the elementary school music program. Emphasis is placed on content and organization of elementary music programs. Materials and methods are surveyed. For music majors only.</p>			<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>		
MUS-383P	Elementary Music Practicum	1	MUS-475	Independent Learning - Music	1-3
<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 an experienced elementary music teacher who will serve as the supervising teacher for the experience. Students will teach a minimum of 3 lessons in the elementary music classroom, and will be observed and evaluated by both IWU music and education faculty. Graded as a Credit/No Credit class. Co-requisite: MUS-383. Permission of the Division of Education to take this course in conjunction with EDU-382C.</p>			<p>Advanced studies of chosen subject. For upper-class majors. By permission of instructor. Requires independent study fee.</p>		
MUS-385	Music Technology for Music Educators	2	MUS-480	Private Studies in Music Education	1-3
<p>An introduction to computer applications in music with an emphasis on programs of particular pertinence to music educators.</p>			<p>Advanced studies in music education. For upper-class majors. By permission of instructor. Requires independent study fee.</p>		
MUS-399H	Honors Thesis/Project	3	MUS-490	Senior Seminar	2
<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 capstone course for all music majors. Designed to identify strengths and weaknesses of a pending music graduate. To be taken in the student's last semester on campus prior to graduation.</p>		
MUS-401	Applied Study-Level IV (majors)	1	MUS-499T	Music Transfer	3
<p>Study of applied music at senior level of study, requires private lesson fee. Meets one hour each week.</p>			<p>MUS-499TM Music Transfer 3</p>		
MUS-442	Senior Recital - Music Majors	2	NUR-100	Professional Nursing	2
<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>The course is intended to introduce students to professional nursing and begin socialization into professional role and values. Numerous career opportunities within nursing and other health-care professions are explored. Students are given an opportunity to observe nurses in a variety of practice settings. Required of all freshmen nursing majors; open to all students. May be waived for students who enter the program above the freshman level.</p>		

NUR-101	The Professional Nurse Today	3	NUR-152	Pharmacotherapeutics	2
<p>This is a theoretical course for the beginning nursing student, introducing online learning, the transition to life long learning, and the roles of the professional nurse as provider of care, coordinator of care, and member of a profession. The history of the profession and the philosophy of the program are examined within a Christian worldview. Concepts of wellness are presented with an emphasis on health promotion through optimal nutrition across the lifespan. The role of the essential nutrients in the maintenance of good health and wellness for all ages is examined. The nursing process is introduced and fundamental facts, concepts and principles in the delivery of holistic nursing care to diverse populations are presented with an emphasis on knowledge, judgment, and Christian values. Prerequisite: Admission to the Associate of Science Nursing program. Co-requisite: NUR-120; Concepts of e-Health.</p>			<p>This course introduces the student to the basic pharmacologic concepts reflecting current practices and provides preparation for practical application of pharmacology concepts in nursing. Terminology, classifications, and principles of drug action and safe administration are presented with emphasis on the role of the professional nurse and application of the nursing process to the care of clients receiving pharmaceutical agents. Prerequisite: NUR-150; Foundations of Professional Nursing.</p>		
NUR-120	Concepts of e-Health	1	NUR-154	Care of Gerontological Clients and Their Families	3
<p>This one hour credit course focuses on current technological trends and practices in health care and information management. The role of the professional nurse in the provision of tele-health care is examined with emphasis given to ethical and legal considerations. Co-requisite: NUR-101; The Professional Nurse Today.</p>			<p>This course is designed to provide the student with nursing principles relevant to culturally competent holistic nursing care of gerontological clients. The nursing process serves as a guide for appropriate nursing interventions in the care of the well elderly client. Emphasis is placed on health promotion, disease prevention, and risk reduction strategies for the elderly client and their family/support systems. Nutritional concepts relating to the cultural and social aspects of optimal nutrition are presented. The clinical component of the course allows the student opportunity to integrate curriculum threads of pharmacology, growth and development, communication, critical thinking, and client teaching with client interactions. Prerequisite: NUR-152; Pharmacotherapeutics.</p>		
NUR-145	Foundations of Nursing	3	NUR-198	Health and Wellness for Women	2
<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>			<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>		
NUR-150	Foundations of Professional Nursing	4	NUR-200	Introduction to Pathophysiology	3
<p>This course composed of didactic instruction and lab/clinical instruction is a foundational course introducing students to concepts of holistic nursing care and optimal health through application of the nursing process. Basic psychomotor nursing skills are introduced and demonstrated, followed by student practice and testing for mastery of the skill. Critical thinking is emphasized through a variety of lab exercises, simulation exercises, and actual patient care. The student will be provided opportunities for the application of professional nursing concepts related to the care of adult clients and their families in a variety of health care settings. Prerequisites: NUR-101; The Professional Nurse Today and NUR-120; Concepts of e-Health.</p>			<p>This course focuses on introducing cellular alterations in organ systems as they relate to selected disease states that impact the health of people as holistic beings. Content of course is presented with an emphasis on critical thinking and decision making related to disease alterations, and implications for nursing practice. Prerequisite: NUR-154; Care of Gerontological Clients and Their Families.</p>		
			NUR-201	Professional Skills in the Academic Environment	1
			<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>		

<p>NUR-237 Complementary and Alternative Therapies 2</p> <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>NUR-254 Care Children and Their Families 3</p> <p>This course is designed to provide understanding of the care of both the well and ill child from infancy to adolescence within the role of the associate degree nurse. Emphasis is placed on the normal growth and development and nursing care of common childhood conditions. Theory is related to the nursing care of the well child, the sick child in various settings, and the child with special needs. The clinical component of the course provides the student with opportunities for application of concepts related to child clients and their families in a variety of settings. Prerequisite: NUR-253; Maternal / Newborn Nursing.</p>
<p>NUR-242 Nutrition 2</p> <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>NUR-260 Physical Assessment 3</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>
<p>NUR-245 Adult Health I 4</p> <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>NUR-260L Physical Assessment Lab 0</p> <p>Laboratory experiences in nursing skills. To be taken concurrently with NUR-260. Graded on a CR/NC basis.</p>
<p>NUR-250 Pharmacology 3</p> <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>NUR-270 Concepts of Mental Health Nursing 3</p> <p>This course develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. The course integrates communication and caring through the application of the nursing process in the care and treatment of common clinical conditions / disorders. Selected common psychiatric disorders and treatment modalities are examined. The course is presented within the context of Christian values and ethics. The clinical component of the course provides the student with opportunities for application of concepts related to the holistic nursing care of mentally ill clients and their families. Prerequisite: NUR-254; Care of Children and Their Families.</p>
<p>NUR-252 Maternal Child Nursing 6</p> <p>This course provides the foundation for entry level competence for maternal child nursing and includes clinical experience. Emphasis is on the application of the Neuman Systems Model to family centered health and well being of infants, children, adolescents, and women throughout the life cycle. Prerequisite: Admission to the sophomore level of nursing. Co-requisite: NUR-221 or NUR-232.</p>	<p>NUR-285 Care of Clients With Complex Needs 4</p> <p>This course examines advanced concepts, skills, and roles of the professional nurse utilizing the nursing process in providing holistic care to adult clients / families with complex medical surgical health care needs involving multiple body systems. The course content is presented within a context of Christian values and ethics. The clinical component of the course provides the student with opportunities for application of skills and concepts related to the care of the client with complex health care needs in intermediate and critical care settings. Prerequisite: NUR-270; Mental Health Nursing.</p>
<p>NUR-253 Maternal/Newborn Nursing 3</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. Prerequisite: NUR-227.</p>	

NUR-288	Trends and Transition to Practice	1	NUR-330	Gerontological Nursing	4
<p>This course provides an introduction to current trends in leadership, management concepts, and research affecting the health care continuum and the practice of nursing. Focus is on the exploration and analysis of contemporary nursing practice and issues impacting the delivery of nursing care. The role of evidenced based research in nursing is examined and interpretation of research in nursing practice is presented. The importance of continued learning, professional growth and the development of the nursing profession is explored. The role of the associate degree nurse in the future is examined with emphasis on trends, practice improvement, and professional growth. Prerequisite: NUR-285; Care of Clients with Complex Needs.</p>			<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>		
NUR-301	Disaster Nursing	2	NUR-332	Nursing Theory for the Clinician	3
<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>			<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>		
NUR-305	Sexual Assault: Implications for Nursing	3	NUR-334	Comprehensive Health Assessment of the Well Adult	2
<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>			<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>		
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 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-315	Tropical Health	2	NUR-345	Adult Health II	5
<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>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-350	Seminar in Nursing Leadership	3
			<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-361	Nursing of the Ill Adult	5	NUR-371	Mental Health Nursing	3
<p>Applies the nursing process to clients who are 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 with adults. Prerequisites: NUR-250, NUR-260 and progression to junior level of nursing.</p>			<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 it included. Prerequisite: Progression to junior nursing studies.</p>		
NUR-362	Nursing of the Childbearing Family	4	NUR-399H	Honors Thesis/Project	3
<p>Considers family patterns, social issues, and the needs of family members during the childbearing period from preconception through the first two weeks following delivery. Normal pregnancy, labor, delivery, and care of the newborn are stressed. Physiological and psychological complications are considered. Clinical experience in maternity nursing is provided. Prerequisite: Progression to junior level of nursing.</p>			<p>NUR-400 Transcultural Nursing 2</p> <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.</p>		
NUR-363	Nursing of the Childrearing Family	4	NUR-400L	Transcultural Nursing - Practicum	1
<p>Applies the nursing process in the promotion of health care for infants and children. Emphasis is placed on the child as a member of a family unit. Includes clinical experience with children. Prerequisite: Progression to junior level of nursing.</p>			<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>		
NUR-365	Ethics	2	NUR-401	Transcultural Nursing	3
<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>			<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.</p>		
NUR-368	Home Health Nursing	2	NUR-436	Research	3
<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>			<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>		
NUR-370	Gerontology	3	NUR-436H	Research	3
<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>			<p>NUR-437 Pathophysiology 3</p> <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>		

NUR-445	Adult Nursing III	5	NUR-473	Nursing Leadership and Management	5
<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>			<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-450	Capstone-Nursing From a Christian World View	2	NUR-475	Nursing Independent Learning	1-3
<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>			<p>Individually arranged studies in a nursing area of interest and/or need. Prerequisite: Faculty approval.</p>		
NUR-460	Population-Focused Nursing Care in Communities	5	NUR-476	Professional Transition	1-3
<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>			<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>		
NUR-470	Community Health Nursing	5	NUR-478	Critical Care Nursing	4
<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>			<p>For the practicing registered nurse. Concentrates on advanced nursing management principles for clients with acute and complex medical or surgical conditions. Designed to refine, deepen, and extend critical thinking skills in situations where dynamics of core survival are threatened. Clinical practicum required (42 hours).</p>		
NUR-471	Mental Health Nursing	3	NUR-490	Management in Nursing	4
<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>			<p>The final capstone course, this is designed to develop leadership and management skills in practicing nurses. Considers dynamics and management of individual, group, and organizational behavior in health-care agencies. Examines issues in management: power and conflict resolution, work stress, discrimination, group dynamics, organizational change, and other topics. Prerequisite: All prior RNBS core courses Practicum required.</p>		
NUR-472	Nursing of the Ill Adult in Crisis	5	NUR-499T	Nursing Transfer	3
<p>Concentrates on the nursing management of individuals with acute and complex medical or surgical conditions. Experience is provided in the emergency room, intensive-care unit, and the coronary-care unit. Prerequisite: Progression to senior level of nursing.</p>			NUR-499TM	Nursing Transfer	3
			NUR-ORE	Orientation	0
			PHE-100T	Phys Ed Activity Transfer	1

PHE-100TM	Phys Ed Activity Transfer	1	PHE-116	Horsemanship	1
				An introductory course in the techniques and etiquette of English-style riding. Students will be required to pay a fee and secure transportation to the riding stable.	
PHE-101	Concepts of Health and Wellness	1	PHE-117	Varsity Athletics	1
	A study of the values, components, development, and maintenance of health, wellness, and fitness. Required of all students.			A university course for student athletes earning credit via their respective varsity sport participation. Compliance with daily workouts, attendance, work ethic, and overall attitude become criteria for grading. This course may be repeated once if a student participates in a second sport.	
PHE-102	Adult Fitness	1	PHE-120	Backpacking	1
	A physical education course for those with limited physical capabilities or working adult students. By permission of instructor.			An outdoor wilderness activity where outdoor living skills, safety, clothing, nutrition, and equipment will be identified. The course will require a minimum of backpacking equipment in order to enroll in the course. The activity will take place in designated backpack trail areas.	
PHE-103	Aerobic Exercise	1	PHE-121	Racquetball	1
	An activity course which introduces several aerobic rhythm routines to the student for the enhancement of stress reduction, fitness, and the development of muscular strength endurance.			This course is designed to acquaint students with the beginning knowledge and skills of the game of racquetball. This is done in order to allow for overall fitness development and to introduce the student to a lifetime sport.	
PHE-105	Badminton	1	PHE-122	Active Recreation Games	1
	A course in the skills, rules, and strategies associated with the game of badminton. A lifetime sport course.			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 a variety of games.	
PHE-106	Basketball - Men	1	PHE-124	Soccer	1
	The fundamental skills of basketball will be covered in addition to basic offenses and defenses. Participation in the activity will be used as a means toward fitness.			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 competition and a lifetime activity.	
PHE-110	Cycling	1	PHE-126	Swimming Skills	1
	The repair, maintenance, and general care of the bicycle will be explained. Participation in the sport of cycling will be monitored and logged through out the course.			A course designed to teach basic water adjustment and the beginning techniques of swimming and water safety.	
PHE-113	Walk, Jog, Run	1	PHE-128	Lifeguarding	2
	The course is designed to acquaint students with the basic knowledge of walking, jogging, and running. The purpose of this is to allow for overall fitness development via a lifetime activity.			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)	
PHE-114	Golf	1			
	Introduction of the lifetime sport of golf. The skills of driving, chipping, and putting will be developed. Further information will be given on golf terms, course etiquette, golf equipment, scoring, and overall protocol.				
PHE-115	Aqua Exercise	1			
	An activity course which introduces several aqua aerobic rhythm routines to the student for the enhancement of stress reduction, fitness, and the development of muscular strength and endurance.				

PHE-130	Tennis	1	PHE-156	Outdoor Wilderness Learning (Wise Owl Project)	3
<p>An outdoor activity to introduce at the beginning level 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>Development of both outdoor living skills and recreational skills in a selected wilderness environment. Includes basic nature and conservation studies . Lab fee required. A course offered at the IWU Canadian campus with a focus on wisdom, leadership, group dynamics, and outdoor living skills. (Fee required)</p>		
PHE-131	Cross-Country Skiing	1	PHE-157	Rhythmics	2
<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 encouraged beyond the course.</p>			<p>Designed to develop skills in graded rhythmic activities, games, and gymnastic rhythms on the elementary and secondary levels.</p>		
PHE-132	Volleyball	1	PHE-162	Personal Health	3
<p>A beginning or foundational course in the basic skills, rules, and strategies associated with the game of volleyball.</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-134	Weight Training	1	PHE-163	School Health and Safety	3
<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>			<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-135	Introduction to Climbing	1	PHE-165	Principles/Problems of Coaching	3
<p>In this course the techniques and challenges of climbing will be developed and sharpened.</p>			<p>Required for coaching endorsement. A study of the many psychological and administrative aspects pertaining to coaching. Such types as motivation, practice planning, budgeting, player/coach relations, team selection, morale, and strategy will be covered.</p>		
PHE-140	Concepts of Wellness	2	PHE-170	Introduction to Exercise Science	3
<p>A consideration of contemporary health concepts as they apply to an awareness of personal wellness.</p>			<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 and sport biomechanics, and motor integration.</p>		
PHE-141	Long Distance Training and Running	2			
<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 lectures from various exercise professionals. The completion of a significant running event as a group will be the culmination of the class.</p>					
PHE-155	Introduction to Physical Education, Sport, and Wellness	3			
<p>Designed to give the student an understanding of the nature and scope of physical education in the world today. This includes history, philosophy, changing concepts, scientific foundations, and theories of physical education. Offered every Fall semester.</p>					

PHE-198	Health and Wellness for Women	2	PHE-242	Elementary Physical Education	3
<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 objectives, organization, methods, and activities of elementary physical education. Special emphasis on the development of basic fundamental movement skills in small children. Clinical experience in school setting is required as a part of this course.</p>		
PHE-210	Computers & Technology in Physical Education and Sport	2	PHE-242P	Elementary Physical Education Practicum	1
<p>A general course in the study of the latest computer and technology information as it pertains to Physical Education & Sport.</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-225	Psychology of Sport and Exercise	3	PHE-248	Intercultural Studies in Physical Education and Sport	3
<p>Examination of psychological implications in regard to sport, exercise, and injury.</p>			<p>A comparison of different countries and their different approaches to physical education and sports. 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. Meets general education intercultural requirement.</p>		
PHE-229	Cardiopulmonary Resuscitation	1	PHE-260	Health, Physical Activity, and Human Movement	3
<p>A techniques course leading to CPR certification.</p>			<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 lifestyle s will be addressed as to their value in regard to individual differences, self-esteem, socialization, spirituality, and enjoyment.</p>		
PHE-230	First Aid Basics	2	PHE-261	Coaching of Baseball and Softball	1
<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>			<p>This course is designed to acquaint students with techniques, methods, rules, and strategies of coaching baseball/softball.</p>		
PHE-235	Professional Experience I	1	PHE-263	Coaching of Basketball	1
<p>Placement of majors and minors in a professional setting in order to gain hands-on experience. The YMCA, YWCA, classroom, schools, PAL Club, and camps will be utilized in this course.</p>			<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>		
PHE-236	Professional Experience II	1			
<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-240S	Officiating Softball	1			
<p>The techniques, methods, rules, mannerism of officiating softball. IHSAA certification.</p>					
PHE-240T	Officiating Track and Field	1			
<p>The techniques, methods, rules, mannerism of officiating track and field. IHSAA certification.</p>					

<p>PHE-264 Principles of Strength and Conditioning 3</p> <p>This course will introduce students to the principles of strength and conditioning and prepare them to sit for the national Certified Strength and Conditioning Specialist (CSCS) exam.</p>	<p>PHE-341 Team Sports 3</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>
<p>PHE-265 Personal Training 0-2</p> <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.</p>	<p>PHE-345 Individual/Dual Sports I 3</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>
<p>PHE-274 Coaching of Track and Field 2</p> <p>An in-depth course to 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 to ward equipment, budgeting, and the individual nature of the sport. Varying roles of the track and field coach will be explained.</p>	<p>PHE-350 Ethics and Character Development inSport 3</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>
<p>PHE-275 Coaching of Volleyball 1</p> <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>PHE-352 Sport Law and Risk Management 3</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>
<p>PHE-276 Coaching of Soccer 1</p> <p>The investigation and application of theory, techniques, skills, strategies, and administration of the sport of soccer.</p>	<p>PHE-354 Sports Management 3</p> <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>PHE-282 Motor Development 2</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>	<p>PHE-362 Nutrition and Health 3</p> <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>PHE-286 Kinesiology 3</p> <p>The investigation and analysis of human movement, emphasizing 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-365	Public and Community Health	3	PHE-378	Tests and Measurements	3
	For teachers, nurses, case workers, and other voluntary and public health agency personnel. Emphasizes the problem-solving approach through small-group interaction case method and critical incident techniques.			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.	
PHE-366	Alcohol and Drug Education	3	PHE-385	Psychology of Motor Learning	3
	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.			An examination of basic psychological and sociological components related to societal involvement in the dynamics of sports. The influence of kinesthetic perception, learning, maturation, emotion, group interaction, social forces, and collective behavior will be emphasized.	
PHE-370	Biomechanics	3	PHE-399H	Honors Thesis/Project	3
	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 acted on by the body.				
PHE-371	Administration of Physical Education and Athletics	3	PHE-410	Wellness Internship	2
	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.			An on-site experience in a health club, 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.	
PHE-374	Physiology of Exercise	3	PHE-413	Health Promotion and Wellness Management	3
	The study of the effects of physical exercise upon the circulatory, 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.			A comprehensive course that addresses the management of the wellness components of life-style, spirituality, nutrition, cardiovascular health, exercise fitness, stress, emotions, substance abuse, sexuality, health care, and mental wholeness.	
PHE-375	Fitness Assessment and Exercise Prescription	3	PHE-420	Sports Marketing, Promotion, and Fund Raising	3
	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 muscular endurance. The design of exercise prescriptions relating to the areas of focus address athletic, healthy and special populations.			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.	
PHE-377	Physics of Sport Movement	3	PHE-422	Sports Management Internship	3
	Study of the laws of physics and computations applied to sport motion.			An in-depth leadership experience related to the sports management field and/or industry. Field placement will be coordinated through the instructor.	
			PHE-423	Adapted Physical Education	3
				Programs and prescription for typical students in the physical education classroom will be discussed in relation to methods and activity needs.	

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-475	Independent Learning	1-3	PHL-283	Philosophy and Christian Thought	3
<p>Individually arranged reading, problem solving, or research in physical education.</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-480	Senior Seminar in Health, Kinesiology, Recreation and Sports Studies	2	PHL-285	Logic	3
<p>A capstone course focusing on current issues, trends, topics, professional entry, and professional opportunities.</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-482	Senior Seminar in Exercise Science	2	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 emphasis on research.</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-483	Exercise Science Internship	4	PHL-334	Philosophy of Religion	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>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>		
PHE-499T	Physical Education Transfer	3	PHL-430	Advanced Topics in Philosophy	3
<p></p>			<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>		
PHE-499TM	Physical Education Transfer	3	PHL-438	Religions of the World	3
<p></p>			<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>		
PHL-180	Humanities Philosophy	3			
<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>					
PHL-280	Ancient and Medieval Philosophy	3			
<p>A survey of the history of philosophy from the pre-Socratics to Bacon. Prerequisite: PHL-180.</p>					
PHL-281	Modern and Contemporary Philosophy	3			
<p>A survey of the history of philosophy from Descartes to the present. Prerequisite: PHL-180.</p>					

PHL-475	Independent Learning-Philosophy	1-3	PHY-212	General Physics II	4
<p>Individually arranged reading, problem solving, or research in philosophy. Prerequisite: PHL-180.</p>			<p>Second part of a two-semester non-calculus introductory course in physics covering electricity, magnetism, optics, and topics in modern physics. Three class periods and one laboratory period. Prerequisite: High school trigonometry or MAT-114.</p>		
PHL-475CC	Council for Christian Colleges and Universities	1-4	PHY-212L	General Physics Lab II	0
PHL-480	Toward a Philosophy of World Changing	2	<p>Lab to be taken as a co-requisite to PHY-212. Graded on a CR/NC basis.</p>		
<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>			PHY-221	University Physics I	4
PHL-499T	Philosophy Transfer	3	<p>Calculus-based introductory physics covering kinematics, dynamics, statics, introductory rotational motion, waves, harmonic motion, and basic heat and thermodynamics. Four hours lecture and three hours lab. Prerequisite or co-requisite: MAT-253 or equivalent.</p>		
PHL-499TM	Philosophy Transfer	3	PHY-221L	University Physics I Lab	0
PHY-120	Physical Science	4	<p>Lab to be taken as a co-requisite to PHY-221. Graded on a CR/NC basis.</p>		
<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. Meets general education requirements for a laboratory science. Three class periods and one laboratory period.</p>			PHY-222	University Physics II	5
PHY-120L	Physical Science Lab	0	<p>Calculus-based introductory physics covering electricity, magnetism, optics, and topics in modern physics. Four hours lecture and three hours lab. Prerequisite: PHY-221 or equivalent.</p>		
<p>Lab to be taken as a co-requisite to PHY-120. Graded on a CR/NC basis.</p>			PHY-222L	University Physics II Lab	0
PHY-211	General Physics I	4	<p>Lab to be taken as a co-requisite to PHY-222.</p>		
<p>First part of a two-semester non-calculus introductory course in physics covering mechanics, thermodynamics (heat), and waves. Three class periods and one laboratory period. Prerequisite: High school trigonometry or MAT-114.</p>			PHY-230	Electronics	4
PHY-211L	General Physics Lab	0	<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>Lab to be taken as a co-requisite to PHY-211. Graded on a CR/NC basis.</p>			PHY-311	Analytical Mechanics	3
PHY-321	Thermodynamics/Statistical Mechanics	3	<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>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>					

PHY-331	Electromagnetism I	3	PMD-110	Preparing the Christian Health Professional	1
<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>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-341	Waves and Optics	3			
<p>Geometrical and physical optics. Interference and diffraction. Lasers. Fiber-optics. Electromagnetic wave theory. Optical instruments.</p>					
PHY-351	Quantum Mechanics I	3	PMD-310	Perspectives in Scientific Reasoning	1
<p>Wave-particle duality. Wave functions. Operators and observables. Matrix representation. Three-dimensional Schroedinger's equation. 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 PHY221 and PHY222).</p>		
PHY-361	Introduction to Health and Medical Physics	3	POL-100	American Government	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>			<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-385	Advanced Physics Laboratory/Measurements	4	POL-200	State and Local Government and Politics	3
<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. Two hours lecture and two hours lab.</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-475	Independent Learning-Physics	0-1	POL-215	Foundations of Political Science	3
<p>Individually arranged study and/or research in physics. Prerequisite: Permission of instructor.</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-499T	Physics Transfer	3			
PHY-499TL	Physics Lab Transfer	0			
PHY-499TM	Physics Transfer	3			

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	1-3
<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	0-1	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			

POL-470H International Relations Capstone Honors College Thesis	3	PREP-READ Requirement by Test Score	0
<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>Used for DA purposes to identify the Basic Reading Vocabulary requirement.</p>	
POL-471 Political Science Research Seminar	3	PREP-SCI Requirement Met by Test Score	0
<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>Used for DA purposes only to identify the Basic Science requirement.</p>	
POL-475 Independent Learning in Political Science	1-3	PREP-WRIT Requirement Met by Test Score	0
<p>Individually arranged research and writing in political science. Prerequisite: Consent of the department.</p>		<p>Used for DA purposes only to identify the Basic Writing requirement is met by test scores.</p>	
POL-499T Political Science Transfer	3	PSY-150 General 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>	
POL-499TM Political Science Transfer	3	PSY-152 General Psychology II	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>	
PREP-ENG Requirement Met by Test Score	0	PSY-155 Personal Adjustment	3
<p>Used for DA purposes only to identify the Basic English requirement.</p>		<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>	
PREP-MATH Requirement Met by Test Score	0	PSY-210 Introduction to Art Therapy	3
<p>Used for DA purposes to identify that Basic Math Requirement has been met.</p>		<p>Designed to acquaint the Pre-Art Therapy major with practices and opportunities offered in this field. Offered alternative Spring Terms.</p>	
PREP-NLSN Requirement by Test Score	0		
<p>Used for DA purposes to identify the Basic Reading.</p>			
PREP-READ	0		
<p>Used for DA purposes only to identify the Basic Reading Comprehension requirement.</p>			
PREP-READ Requirement by Test Score	0		
<p>Used for DA purposes to identify the Basic Reading Requirement.</p>			

PSY-225	Learning and Motivation	3	PSY-290	Psychology Seminar	1
<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>			<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-227	Adv. Topics in Behavioral, Cognitive, and Neuropsychological Research	3	PSY-291	Urban Encounter for the Helping Profession	1
<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>			<p>All psychology majors are expected to participate in a field trip to Olive Branch Mission, Chicago, Illinois. The purpose of the trip is to provide students an urban, cross-cultural experience as well as exposure to the diversity and universality of human experience and behavior. Students will be encouraged to live out the love of Jesus in connecting with the people of the Olive Branch community. Students will interview ministerial staff and seek out opportunities to dialogue with those served by the mission. These interactions will provide the basis for a four- to five-page reaction paper upon returning to IWU. Students will reflect on the impact of this experience in terms of their personal development, faith, and sense of life calling.</p>		
PSY-250	Developmental Psychology	3	PSY-296	Transactional Analysis	3
<p>A survey of human development and changes throughout the life cycle. Prerequisite: PSY-150.</p>			<p>Consideration will be given to the theoretical and technical basis of TA as developed by Eric Berne. The basic concepts of structure, transaction, game, and script analysis will be studied, as well as the application of these concepts to individual and group counseling.</p>		
PSY-251	Child Development	3	PSY-322	Physiological Psychology	3
<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>			<p>A study of the neurophysiology that underlies human behavior. Emphasis will be given to the mechanisms of the central nervous system which mediate sensation, perception, consciousness, motivation, learning, and emotional behavior.</p>		
PSY-252	Adolescent Growth and Development	3	PSY-322S	Physiological Psychology - II	2
<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>			<p>Supplement for students who took PSY-162.</p>		
PSY-276	Psychology of the Exceptional Learner	3	PSY-354	Statistics for Social Sciences	3
<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>			<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 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,</p>		

PSY-487	Techniques of Counseling	3	REC-240	Trip Camping in the USA	2
<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>			<p>A ten day camping experience to and in various National Parks and National 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-490	Senior Capstone	1	REC-260	Recreation Leadership and Programming	3
<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>			<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-493	Integration of Psychology and Christianity	3	REC-280	Commercial and Social Recreation	3
<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>			<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.</p>		
PSY-495	History and Systems of Psychology	3	REC-370	Therapeutic Recreation and the Aged	3
<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>			<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>		
PSY-499T	Psychology Transfer	3	REC-380	Camp Management	3
			<p>The internal administrative procedures--together with program selection, personnel procurement, and supervision--together with the day-to-day successful operation will be explored.</p>		
PSY-499TM	Psychology Transfer	3	REC-382	Camp Counseling	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>		
REC-160	Introduction to Recreation	3	REC-385	Challenge Education	3
<p>Foundations of organized recreation, backgrounds and theories, objectives and principles, social and economic factors, public, private, and commercial interests, recreation, and the social institutions.</p>			<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>		
REC-180	Recreation Games and Intramural Sports	3			
<p>Individual, dual, low organization activities, quiet games, table games, and social mixers usable in the recreational setting.</p>					

<p>REC-390 Introduction to Therapeutic Recreation 3</p> <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>REC-472 Therapeutic Process, Protocols & Facilitation Techniques in Leisure 3</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>
<p>REC-399H Honors Thesis/Project 3</p>	<p>REC-475 Independent Learning in Recreation Management 1-3</p> <p>Individual readings, research, and/or field study of a recreation issue, problem, service system, or activity pattern. Can include individual growth of the student in a particular area.</p>
<p>REC-405 Clinical Aspects of Therapeutic Recreation 3</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>	<p>REC-480 TRS Internship 3</p> <p>An internship experience dealing with special population and their leisure pursuits.</p>
<p>REC-410 Recreation Internship 2</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>	<p>REC-499T Recreation Transfer 3</p>
<p>REC-450 Recreation Administration 3</p> <p>Development of approaches to deal with staffing, planning, organization, coordination, evaluation, and directing programs and personnel.</p>	<p>REC-499TM Recreation Transfer 3</p>
<p>REC-460 Facilities: Design, Planning, Maintenance, and Scheduling 3</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>	<p>REL-112 Theological & Theoretical Foundation of Cross Cultural Leadership Dev. 2</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>
	<p>REL-205 The Pastor's Wife Today 3</p> <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>REL-207 The Role of Women in Ministry 3</p> <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>

REL-225	American Religious Issues	3	REL-237	Media for Ministry	3
<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>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>		
REL-226	Christian Spirituality: Experiencing God	3	REL-241	Survey of Church History	3
<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>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-228	Defending the Christian Faith	3	REL-264	Introduction to Pastoral Ministries	2
<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>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-232	Basic Christian Doctrine	3	REL-264P	Pastoral Ministries Observation	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 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-235	Worship	2	REL-275	Evangelism and Global Outreach	3
<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>			<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-235P	Worship Practicum	1	REL-275P	Evangelism and Global Outreach Practicum	1
<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>			<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-399H	Honors Thesis/Project	3	REL-438P	Managing Christian Worship Practicum	1
<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>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: REL-438.</p>		
REL-410	World Faith Systems	3	REL-442	Christian Theology II	3
<p>A study of the major faith systems of the world and their impact, with an emphasis on their influence on North American culture. Prerequisite: BIL-102 or permission of the Department.</p>			<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>		
REL-424	Christian Theology II: Salvation/Holiness	3	REL-465	Homiletics I	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: REL-233 or REL-232.</p>			<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>		
REL-431	Wesleyan ChurchHistory/Discipline	3	REL-466	Homiletics II	2
<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>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>		
REL-436	Church Rituals	1	REL-466P	Homiletics Practicum	1
<p>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 Christian Ministries, Christian Worship or Youth Ministry majors or by permission of the Division. Prerequisite: REL-264 or YTH-220; REL-232 or REL-233; REL-235.</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-438	Managing Christian Worship	2			
<p>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 REL-438P. Open only to students who have been admitted to the Christian Worship major.</p>					

REL-468	Church Leadership	3	REL-481	Ministry Expansion and Church Planting	3
<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>			<p>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.</p>		
REL-468P	Church Leadership Practicum	1	REL-482	Christian Ministries Capstone	2
<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>			<p>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.</p>		
REL-469	Pastoral Care and Counseling	3	REL-483	Biblical Studies Colloquium	3
<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>			<p>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.</p>		
REL-469P	Pastoral Care Practicum	1	REL-498	Religion/Philosophy Honors	1-3
<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>			<p>Advanced independent studies. Prerequisite: Junior or senior standing with a 3.0 GPA.</p>		
REL-475	Independent Learning-Religion	1-3	REL-499T	Religion Transfer	3
<p>Individually arranged reading, research, problem-solving in theology, history, Christian education, missions, evangelism, philosophy, and other areas as related to the study of religion.</p>			<p>REL-499TM Religion Transfer 3</p>		
REL-480	Ministry Internship	3-6	SCI-201	Integrate Earth/Life Science (with Lab)	4
<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>			<p>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.</p>		

SCI-380	Impacts of Science on Faith and Society	3		SOC-210	Minority Group Relations	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. Meets general education science credit.			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.
SCI-499T	Science Transfer	3		SOC-225	Cultural Anthropology	3
SCI-499TL	Science Lab Transfer	0				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.
SCI-499TLB	Lab Science Transfer	1-5		SOC-246	Criminology	3
SCI-499TM	Science Transfer	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.
SOC-150	Principles of Sociology	3		SOC-355	Research Methods for the Behavioral Sciences	3
			An introductory analysis of the individual in culture and society, using a biblical framework.			This is a three-hour course offered each spring semester. Its purpose is to provide the student with an introduction to the concepts and techniques of research methodology as employed in the behavioral sciences including experimental research, field and survey research, content analysis and other unobtrusive techniques, and evaluative assessment research. Students will be encouraged to demonstrate an understanding of the role of research for helping professionals; examining truth-seeking from a scientific and from a Biblical perspective; critiquing current research findings in professional journals; identifying appropriate research methodology for a given problem or topic; completing an empirical research project from start to finish; developing a research manuscript using APA publication manual guidelines; and developing oral communication skills in presenting one's research project to a professional audience. Also listed as PSY-355.
SOC-152	Social Problems	3		SOC-360	Social Psychology	3
			A study of issues in contemporary American society which are examined from a sociological perspective including crime, poverty, violence, racism, and sexism.			A study of the experience and behavior of individuals in relation to group situations and social influences of modern life. Gives credit for majors in Sociology or Psychology. Prerequisites: SOC-150 and PSY-150.
SOC-170	Aging in America	3		SOC-370	Demography and Population Problems	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.			A survey of theories and policies concerning population, present population trends, the social factors underlying population growth, and related problems of birth control and world food supply. Gives credit for majors in Sociology or Political Science. Prerequisite: SOC-150 or POL-100.
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-371	Family Systems	3	SPA-100	Spanish for Fun	3
<p>A study of principles, theoretical approaches, specific objectives, and techniques currently used in the "systems theory" approach to marriage and the family. The focus will be on normal developmental problems rather than on psychopathology. This course will present both a systemic and strategic approach to therapy including the theories of Minuchi , Satire, Bowen, and Haley. Prerequisite: 9 hours of Psychology. Also listed as PSY-371.</p>			<p>A course that uses grams, proverbs, songs, dialogues, etc., that require the student to use Spanish. Graded on a Credit/No Credit basis.</p>		
SOC-410	Sociology Seminar	3	SPA-110	Conversational Spanish	3
<p>Series of rotating seminars, each dealing with a different sociological issue such as human sexuality, church and society, society and sport, aging, death and dying. May be repeated. Prerequisites: SOC-150 and consent of the department.</p>			<p>A course that develops a basic working vocabulary and the use of the simple tenses. Listening and speaking in Spanish are emphasized during class time. Language laboratory required.</p>		
SOC-475	Independent Learning in Sociology	1-3	SPA-117	Beginning Spanish I	3
<p>Individually arranged with instructor. Prerequisites: Sociology major and consent of the department.</p>			<p>A course designed to develop the receptive and expressive skills in the use of the Spanish language. All four language skills receive attention. Language laboratory required.</p>		
SOC-479	Sociological Theory	3	SPA-118	Beginning Spanish II	3
<p>An intensive study of major schools of sociological theory, such as symbolic interaction, structure- functionalism, and conflict theory, together with a consideration of the close relationship between sociological theory and research. Prerequisite: SOC-150.</p>			<p>A course designed to develop the receptive and expressive skills in the use of the Spanish language. All four language skills receive attention. Language laboratory required. Prerequisite: SPA-117 or equivalent.</p>		
SOC-482	Social Research	3	SPA-199T	College Spanish I	3
<p>Principles and methods of research design are emphasized in this course. Using survey, experimental, and observational approaches, students develop an appreciation for the research process. Quantitative and qualitative approaches are explored. Students are involved in research projects which provide opportunities for application of course material. Prerequisites: SOC-150 and an approved statistics course or consent of the department.</p>			<p>A general review and continued development of the four language skills. Language laboratory required. Prerequisites: SPA-117 and SPA-118, or equivalent.</p>		
SOC-499T	Sociology Transfer	3	SPA-237	Intermediate Spanish I	3
<p></p>			<p>A general review and continued development of the four language skills. Language laboratory required. Prerequisites: SPA-117, SPA-118, and SPA-237, or equivalent.</p>		
SOC-499TM	Sociology Transfer	3	SPA-238	Intermediate Spanish II	3
<p></p>			<p>A general review and continued development of the four language skills. Language laboratory required. Prerequisites: SPA-117, SPA-118, and SPA-237, or equivalent.</p>		
SOS-180	Introduction to the Social Sciences	2	SPA-347	Spanish Conversation/Composition	3
<p>An intra-divisional, interdisciplinary study for students majoring in a Social Science discipline, equipping students with study and life skills for effective scholarship and learning. Prerequisite: UNV-180. (With consent of the department may be taken by transfer students concurrently with UNV-180.</p>			<p>Conversational practice for development in understanding and speaking; composition includes translation and original writing. Prerequisites: SPA-237 and SPA-238, or equivalent.</p>		
			SPA-348	Latin American Studies	3
<p></p>			<p>A study of the geography, history, and culture. Assigned readings and reports. Prerequisites: SPA-237 and SPA-238.</p>		

SPA-354	Latin American History	3	SPA-399H	Honors Thesis/Project	3
<p>The history from discovery to the present of the twenty republics constituting Latin America. When collateral reading and reporting is done in Spanish, three hours of Spanish credit is earned. Prerequisites: SPA-237 and SPA-238, or equivalent.</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-357	Spanish Linguistics and Phonology	3	SPA-420	Advanced Spanish Grammar	3
<p>A study of the general aspects of Spanish phonology, morphology, syntax, and semantics and their practical application to understanding and speaking Spanish. Includes a study of dialectical differences of American and Peninsular Spanish. Required for Spanish Education majors. Prerequisite: SPA-347.</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-360	Technology and Assessment in the Foreign Language Classroom	2	SPA-457	Survey of Spanish 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. This course 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 Spanish literature by reading from the major works of prose, poetry, and drama.</p>		
SPA-370	Hispanic Culture and Language Studies	3	SPA-458	Survey of Spanish American 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 are given to use Spanish in a variety of settings. Fees for travel, lodging, and meals are extra. May be repeated.</p>			<p>A study of the development of literature in Spanish America from the Colonial period revealed in the works of the major writers.</p>		
SPA-371	Hispanic Culture in the U.S.	3	SPA-461	Contemporary Spanish Literature	3
<p>A study of the migration of the Hispanics to and within the U.S. There is also a look at the influence the Hispanic culture has had and is having on the American culture. Time is spent in Chicago visiting the Hispanic communities.</p>			<p>Studies in contemporary Spanish and Spanish American literature.</p>		
SPA-372	Culture and Civilization of Spain	3	SPA-462	Spanish Short Stories	3
<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>A study of Spanish and Spanish American short stories.</p>		
SPA-380P	Elementary Spanish Education Practicum	1	SPA-470	Senior Seminar	1
<p>This course provides 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>This required capstone course is 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-475	Independent Learning-Spanish	1-3
			<p>Individually arranged reading and reporting on reading. To be done in Spanish. Other options are possible. Prerequisite: Permission of instructor.</p>		
			SPA-499T	Spanish Transfer	3
			SPA-499TM	Spanish Transfer	3

<p>SWK-170 Introduction to Social Work 3</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>	<p>SWK-354 Statistics for Social Sciences 3</p> <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>SWK-335 Social Welfare Organization 3</p> <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>	<p>SWK-355 Social Work Practice I 3</p> <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>SWK-336 Social Policy 3</p> <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>SWK-356 Social Work Practice II 3</p> <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>SWK-342 Human Behavior and the Social Environment I 3</p> <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>SWK-357 Social Work Practice III 3</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>
<p>SWK-343 Human Behavior and the Social Environment II 3</p> <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>SWK-366 Social Work Field Placement I 3</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-370	Social Work Field Placement Seminar I	3	THE-233	Christian Theology I	3
<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>			<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>		
SWK-399H	Honors Thesis/Project	3	THE-310	Christology	3
SWK-466	Social Work Field Placement II	9	<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>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>			THE-311	Ecclesiology	3
SWK-470	Social Work Field Placement Seminar II	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>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>			THE-420	The Life and Legacy of Augustine Of Hippo	3
SWK-472	Social Work Seminar	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>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-424	Christian Theology II: Salvation/Holiness	3
SWK-475	Independent Learning in Social Work	1-3	<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>Prerequisites: Social Work major and permission of instructor.</p>			THE-424	Christian Theology II: Salvation/Holiness	3
SWK-499T	Social Work Transfer	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>		
SWK-499TM	Social Work Transfer	3	THE-232	Basic Christian Doctrine	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>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>
<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>UNV-180 Becoming World Changers: Christian Faith and Contemporary Issues 3</p> <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>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>UNV-180G Becoming World Changers (group) 0</p> <p>Graded on a CR/NC basis.</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-181 Leading Change in the World 3</p> <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>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-201 Liberal Arts Appreciation 1</p> <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>UNV-150 Relationships: Bldg & Maintaining Health 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-401 General Studies Colloquium 1</p> <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>
	<p>WAIV-MAT Requirement Met by Test Score 0</p> <p>Used for DA purposes only to identify the Basic Math requirement is met by test scores.</p>

WAIV-READ Requirement Met by Test Score	0	WRI-230 Sentence Strategies	3
Used for DA purposes only to identify the Basic Reading requirement.		This course will explore all elements of the writer's basic tool: the sentence. It will focus on the possibilities of writing graceful, powerful, and/or effective sentences, no matter what the writer's purpose of 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.	
WAIV-WRIT Requirement Met by Test Score	0	WRI-234 Advanced Writing	3
Used for DA purposes only to identify the Basic Writing requirement.		Students will study skills of advanced expressive, expository, and research writing--employing current aims of discourse and emphasizing peer critiquing. Students also 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-165 English Language and Composition	3	WRI-235 Creative Writing	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.		An introduction to the writing of fiction, poetry, and drama. Emphasizes both the exercising of the imagination and the shaping of that imagination in to artistic forms. Prerequisite: Successful completion of ENG-120 or Advanced Standing in English.	
WRI-210 Theories and Methods of Writing Consultancy	1	WRI-281 Rhetorical Strategies	3
All students who wish to be writing consultants must take this course 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.		An advanced study of expository writing patterns and strategies, including research writing. Emphasizes the influence of classical rhetoric on modern forms. Prerequisite: Successful completion of ENG-120 or Advanced Standing in English.	
WRI-223 Desktop Publishing	3	WRI-282 Writing for Results	3
A course 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.		The study and practices of persuasive writing. Includes analysis of pulpit rhetoric, political rhetoric, advertising techniques, and propaganda. Based on classical rhetoric, the course considers the psychological impact of language on behavior. Prerequisite: Successful completion of ENG-120 or Advanced Standing in English.	
WRI-224 Introduction to Newswriting	3	WRI-353 Magazine Writing	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.		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 the Division.	
		WRI-354 Writing Fiction	3
		Advanced work in the writing of short stories. The principles of plot construction, character delineation, and descriptive setting are considered. Prerequisite: WRI-235 and permission of the division.	

WRI-355	Prose Style	3	WRI-457	Nonfiction	3
<p>An advanced study of prose style, involving analysis of styles both literary and journalistic, and practice in various techniques. Prerequisite: WRI-234 and permission of the division.</p>			<p>A course which encourages students to pursue and refine the nonfiction writing skills that they will most likely be using in the future. Students may focus on the personal essay, the analytical article, religious or devotional writing, the review, or any other appropriate nonfiction mode. Prerequisite: WRI-234 and permission of the Division.</p>		
WRI-356	Technical Writing	3	WRI-459	Creative Nonfiction	3
<p>Expository writing which concentrates on clarity and orderliness. Includes the preparation of reports, studies, proposals, and manuals for technical subjects such as those dealt with in the sciences, engineering, industry, and government. Prerequisite: Permission of the Division.</p>			<p>An intense workshop in the lyrical essay and literary nonfiction. Students will read extensively within the genre, journal diligently, and explore the possibilities of combining observation, research and truth-telling with the schemes and tropes of imaginative prose writing. Prerequisites: WRI-234 and WRI-235.</p>		
WRI-358	Poetry	3	WRI-460	Writing for the Professions	3
<p>An intense study of the craft of poetry writing. Through the study of excellent models (especially good contemporary poetry), through experimentation with both traditional forms and free verse, and through peer evaluation, students learn to find their own poetic voice. Prerequisite: WRI-235 and permission of the Division.</p>			<p>A workshop and practicum devoted to sharpening basic writing skills and developing appropriate styles and formats for professional communication and publication. Emphasis on individualized instruction and on the completion of personal professional projects. Prerequisite: Permission of the Division.</p>		
WRI-360	Writing Internship	3	WRI-475	Independent Learning in Writing	1-3
<p>Practical experience, working for a newspaper or magazine. The course is tailored to meet the needs and abilities of advanced students. Requirements: Junior standing, 3.0 GPA, and permission of instructor. Prerequisite: Successful completion of ENG-120 or Advanced Standing in English.</p>			<p>Independent study in writing. Prerequisite: Permission of the Division.</p>		
WRI-368	Writing Specialties	3	WRI-481	Writing Capstone	3
<p>This course is designed to provide opportunity for an occasional course emphasizing a particular writing specialty such as writing for children, travel writing, writing about spirituality, nature writing, etc. Prerequisite: Successful completion of ENG-120 or Advanced Standing in English. Requires permission of instructor for non-writing majors. May be repeated. Prerequisite: Permission of the Division.</p>			<p>This seminar will serve as a capstone course for our writing majors, completing their coursework and complementing their Indiana Wesleyan University experience. Through class discussion, reading, research, writing, and portfolio development, students will be led to reflect upon the character and meaning of their academic and personal experiences and will be challenged to explore how these experiences may be integrated into their future work, both personal and professional.</p>		
WRI-399H	Honors Thesis/Project	3	WRI-495	Creative Writing Project	1-3
<p></p>			<p>For advanced students, by permission of the Division.</p>		
WRI-456	Fiction	3	WRI-499T	Writing Transfer	3
<p>Study of both the theory and the craft of fiction writing. By reading good fiction and by exploring through writing exercises the particular elements of fiction (plot, characterization, setting, point of view, and theme), students learn to integrate these to write short stories or to begin their own novels. Prerequisite: WRI-235 and permission of the Division.</p>			<p>WRI-499TM Writing Transfer 3</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-341	Youth Ministries Practicum	1	YTH-399H	Honors Thesis/Project	3
<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-425 Youth Ministry Internship 3-6

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.

YTH-499T Youth Transfer 3

YTH-499TM Youth Transfer 3