

ATTENTION: The below descriptions should only be referenced for the 2023-24 academic year. All real-time course descriptions are available in the live [University Catalog of Courses and Sections Offerings](#).

ACC-180 Special Topics in Accounting 1-3 Credits

Selected topics applying to the study of accounting. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ACC-210 Principles of Accounting I 3- Credits

An introduction to accounting principles, practices, and systems for sole proprietorship, service, and merchandising businesses. Study includes the basic accounting model and the measuring and reporting of assets and current liabilities. Computer applications are utilized.

ACC-211 Principles of Accounting II 3- Credits

An introduction to accounting for corporations and manufacturing businesses. Study includes special reports, analysis of accounting information, and an introduction to managerial accounting. Computer applications are utilized.

Take ACC-210. (Required, Previous).

ACC-280 Special Topics in Accounting 1-3 Credits

Selected topics applying to the study of accounting. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ACC-311 Advanced Cost Accounting 3- Credits

A study of cost analysis, activity-based costing, short-term decision making, responsibility accounting, divisional performance measurement and cost centers as they apply to cost systems. Study also includes the principles and procedures of accounting for materials, labor, and overhead as they apply to job order costing, process costing, and standard cost systems. Computer applications are utilized.

Take ACC-250. (Required, Previous).

ACC-320 Intermediate Financial Accounting I 3- Credits

An advanced study of generally accepted accounting principles applied to financial reporting of corporate business enterprises. Study includes the financial accounting environment, the accounting information system, basic financial statements, and the accounting cycle. Financial calculators and cases are utilized.

Take ACC-250. (Required, Previous).

ACC-321 Intermediate Financial Accounting II 3- Credits

A continuation of ACC 320 that completes a detailed study of asset, liability, and stockholders' equity accounting. Financial calculators and cases are utilized.

Take ACC-320. (Required, Previous).

ACC-380 Special Topics in Accounting 1-3 Credits

Selected topics applying to the study of accounting. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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ACC-430 Federal Taxation I 3- Credits

Provides the underlying principles of federal tax laws and regulations as they apply to individuals and small businesses. Study includes the tax determination formula, gross income, personal and business deductions, depreciation, and other tax accounting issues. Computer applications are utilized. Take ACC-250. (Required, Previous).

ACC-431 Federal Taxation II 3- Credits

A study of the underlying principles of federal tax laws and regulations as they apply to tax credits, property transactions, C Corporations, S Corporations, partnerships, LLCs and other advanced tax accounting issues. Computer applications are utilized. Take ACC-430. (Required, Previous).

ACC-440 Auditing 3- Credits

A study of the principles, theory, and practice of auditing. Study includes professional ethics, auditing standards, environment, concepts, tools, techniques, the audit engagement, and reporting responsibilities. An integrated comprehensive audit practice case is utilized. Take ACC-310. (Required, Previous or concurrent).

ACC-450 Becker CPA Review Course Becker CPA Review Course 6- Credits

An overall analysis and review of the American Institute of Certified Public Accountant's Uniform CPA (Certified Public Accountant) Examination. Study includes financial accounting and reporting, regulation, auditing and attestation, and business environment and concepts. The cost of the course is included in the full-time tuition fee. Tuition discounts do not apply. A Tuition Free Continuing-Help Certificate can be earned through The Becker CPA Review Course. Take ACC-321. (Required, Previous).

ACC-455 Cases in Accounting and Finance 3- Credits

The case method of instruction is utilized to analyze, present, and defend financial management cases. The case analysis involves the stages of investigation, design, and implementation of financial management theory applied within the team dynamic. Case study includes financial statements and time value of money, financial analysis and forecasting, working capital management, capital budgeting, long-term financing, and professional ethics. The American Institute of Certified Public Accountants (AICPA) and the Certified Financial Planner Board of Standards Codes of Ethics and Professional Responsibility are also studied. Cross-listed as FIN-455. Take 62 credits. (Required, Previous).

ACC-460 Internship in Accounting I 3-9 Credits

Designed to give qualified upper division accounting majors on-the-job educational experiences. It is an introduction to a practical, supervised work experience that is related to the student's area of study. Placement is arranged after application, interview, and approval by the department faculty. The student and the employer give periodic reports and evaluations. All placements are paid positions. A minimum of 180 hours of actual work experience is required to earn three credits. Credits earned in these courses are not included in the 40-credit limit in the major. A second internship may count for elective business experience. Graded S/U.

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ACC-461 Internship in Accounting II 3-9 Credits

Designed to give qualified upper division accounting majors on-the-job educational experiences. It is an introduction to a practical, supervised work experience that is related to the student's area of study. Placement is arranged after application, interview, and approval by the department faculty. The student and the employer give periodic reports and evaluations. All placements are paid positions. A minimum of 180 hours of actual work experience is required to earn three credits. Credits earned in these courses are not included in the 40-credit limit in the major. A second internship may count for elective business experience. Graded S/U.

ACC-462 Internship in Accounting III 3-9 Credits

Designed to give qualified upper division accounting majors on-the-job educational experiences. It is an introduction to a practical, supervised work experience that is related to the student's area of study. Placement is arranged after application, interview, and approval by the department faculty. The student and the employer give periodic reports and evaluations. All placements are paid positions. A minimum of 180 hours of actual work experience is required to earn three credits. Credits earned in these courses are not included in the 40-credit limit in the major. A second internship may count for elective business experience. Graded S/U.

ACC-470 Full-Time Accounting Internship 12- Credits

Designed to give qualified upper division 150-hour Accounting Program students an immersion experience in the accounting profession, as students work full-time for a semester. The student and the employer give periodic reports and evaluations. Accounting internship placements are paid positions. Internship learning credits do not count toward credits required in the major. A second internship may count for elective business experience. Graded S/U.

Take ACC-250. (Required, Previous). | Take BUS-200. (Required, Previous).

ACC-480 Special Topics in Accounting 1-3 Credits

Selected topics of interest in accounting. May be repeated if the topics vary. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ACC-499 Independent Study in Accounting 1-3 Credits

Guided study and/or research in accounting.

AGR-100 Public Health and Safety 1- Credits

See VNP-100.

AGR-102 Intro to Animal Agriculture 3- Credits

Students in this course will study animal agriculture emphasizing the efficient production of animal food products from poultry, dairy and meat animals. This course is only offered at the Ancilla College campus.

AGR-105 Soil Science & Crop Production 3- Credits

Students in this course learn fundamental principles of crop production and distribution. Emphasis is placed on applying technological advances in agronomy to active crop-production situations, including

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basic soils, agricultural meteorology, and crop physiology and breeding. This course is only offered at the Ancilla College campus.

AGR-121 The Ethics of Animal Use 2- Credits

This course explores ethical issues relating to animal use in contemporary society. It integrates philosophical theories with scientific evidence to the use of animals in agriculture, biomedical research, companion animals, and issues relating to wildlife and environment.

AGR-203 Agriculture Economics 3- Credits

Students in this course learn various applications of microeconomics as used by farms and agribusiness firms. The behavior of individual firms is evaluated, as price and output are determined in various market structures (pure competition, pure monopoly, monopolistic competition, and oligopoly). Other topics include pricing and employment of resources, market failure and the social control of industry (government, economics policy, and regulation), cost and production theory. This course is only offered at the Ancilla College campus.

Take ECN-200. (Required, Previous).

AGR-221 Animal Nutrition 3- Credits

Students will learn basic principles of animal nutrition as it relates to agricultural animals and practices. Concepts covered include foodstuffs, ration formulation, feeding, digestion, absorption, and measurement of body needs and characteristics of nutrients. This course is only offered at the Ancilla College campus.

Take AGR-102. (Required, Previous).

AGR-230 Agribusiness 3- Credits

Management of nonfarm, agriculturally related businesses related to business. Topics include tools for management decisions making, legal forms of business organization, basic accounting, and important financial management techniques. Case studies are utilized.

AGR-231 Salesmanship 3- Credits

This is a general agricultural marketing and sales related course that focuses on basic principles of sales, industry sales and trends, customer relationships, building trust, leadership development, communicating, presenting, buyer motivation, creating value, handling and managing customer concerns, sales management, conducting sales dialogues, etc.

Take AGR-230. (Required, Previous).

AGR-280 Special Topics in Agriculture 1-3 Credits

Students will study selected topics and/or current issues in agriculture. Topics vary depending upon interests of faculty and students. Prerequisites may vary. This course is only offered at the Ancilla College campus. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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AGR-299 Agriculture Capstone 3- Credits

Students will have the option to participate in an approved internship opportunity or complete a project demonstrating their knowledge of the field. This course is only offered at the Ancilla College campus.

AIM-123 Business Analytics I 3- Credits

An introduction to the field of Business Analytics based on Microsoft Excel. Topics include data analysis, decision strategies, forecasting, data management, visualization, and interpretation.

AIM-223 Database Management Systems 3- Credits

An introduction to database management. Topics include data modeling, data structures, normalization, database design methodology, data security, data integrity, and database administration. Both theory and applications are stressed.

Take AIM-123 or BUS-109. (Required, Previous). | Take BUS-205. (Required, Previous).

AIM-320 Business Decision Making 3- Credits

An introduction to the design and use of decision support systems. Emphasis is placed on forecasting, operational analysis, and database management. Both theory and applications are stressed.

Take AIM-123 or BUS-109. (Required, Previous).

AIM-323 Business Analytics II 3- Credits

The course introduces students to the analytical features of Python, SAS and Tableau. Topics include: cluster analysis, regression, forecasting, diagnostics, machine learning, mapping, and data merging. Visualization and interpretation are emphasized throughout the course. Students who successfully complete the course will be competent in the application of several analytical tools.

Take CST-150 or CST-171. (Required, Previous). | Take AIM-223 BUS-205. (Required, Previous).

AIM-423 Business Analytics III 3- Credits

This is the capstone course for the business analytics major. Students who successfully complete the course will be prepared to organize and analyze large data sets from a variety of sources, utilize and interpret “big data”, and strategically utilize the results within an organization’s decision-making process. Familiarity with a statistical programming language is assumed.

Take AIM-323. (Required, Previous).

ARH-235 Global Art History I Renaissance 3- Credits

This course is global exploration of art history from prehistory to 1348 and seeks to answer the question: What is art for? Alongside answering that question, it will introduce students to the chronology, terminology, and formal analysis strategies seminal to the disciplines that comprise the visual arts.

ARH-236 Global Art History II Contemporary 3- Credits

This course is global exploration of art history from 1348 to the present and seeks to answer the question: What is art for? Alongside answering that question, it will introduce students to the chronology, terminology, and formal analysis strategies seminal to the disciplines that comprise the visual arts.

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ARH-330 The Classical World 3- Credits

A study of the history and art of the Greeks and Romans through their lives, deaths and their cultural constructs including, but not limited to, religion (myth), ritual, politics, the city, athletics, gender relations, and warfare.

Take HUM-210. (Required, Previous).

ARH-335 The Medieval West 3- Credits

A study of the cultures and art in the west, from the Late Roman (Antique) period to the International Gothic style, through the issue driven theme of the struggle for authority. This course can be taken in partial fulfillment of the Catholic Studies major.

Take HUM-210. (Required, Previous).

ARH-337 The Byzantine East 3- Credits

A study of the culture and art in the Byzantine east, from the Late Roman (Antique) period to the fall of Constantinople, through the issue driven theme of interaction and conflict between the east and west including, but not limited to, religious ideologies and politics.

Take HUM-210. (Required, Previous).

ARH-342 The Renaissance 3- Credits

Explores the art of the Renaissance from its beginnings in the Dugento to its dissolution in the 16th century.

Take HUM-210. (Required, Previous).

ARH-344 The Modern World 3- Credits

Traces the complex world of art beginning with its roots in the ideas of Romanticism and ending with post World War II American art. Emphasis is placed upon international developments rather than focusing upon one country.

Take ARH-236. (Required, Previous).

ARH-346 The Contemporary Scene 3- Credits

Beginning with the international pop movement in the mid-1950s, the student investigates the contemporary art scene and the changing roles of art and the artist.

Take ARH-236. (Required, Previous).

ARH-347 Intercultural Art 3- Credits

A series of courses that explores the art and cultures which comprise the majority of the world's peoples. Emphasis is placed upon African, Oceanic, Native American, and the Middle and Far Eastern Cultures. May be taken a second time when topics vary. With the exception of ARH/ART majors, this course partially satisfies the general education requirement in the cultural awareness category.

Take HUM-210. (Required, Previous).

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ARH-380 Special Topics in Art History 1-3 Credits

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ARH-499 Independent Study 1-3 Credits

A senior-level research course with a topic mutually agreed upon by the student and the faculty member. May include either an annotated bibliography or a research paper and may be taken more than once if the topics vary.

ART-110 Drawing Concepts 3- Credits

This studio-based course introduces the elements and principles of visual art through observational drawing and analysis-focused projects. A variety of subjects and media are used to solve complex visual problems and to examine concepts in art. Emphasis is placed on creative production and classroom participation. Six contact hours per week.

ART-139 Art Appreciation: Understanding the Making and Meaning of Images 3- Credits

This course introduces students to the basic principles underlying the physical and philosophical creation of artworks. By encountering artworks in person at museums and galleries in Indianapolis, students will acquire an understanding of formal composition, artistic materials and techniques. Students will also develop the ability to discern different styles and the contextual origins of different iconographies

ART-155 Beginning Photography 3- Credits

An introductory studio course for non-art and design majors. Students learn how to use point and shoot, digital SLR's, or smartphone cameras to make better quality photographs. Composition, lighting, and thematic considerations are emphasized to learn how to make images with intent. Note: ART-155 Does not count toward a minor in photography. 4 contact hours per week.

ART-180 Special Topics in Art 2-3 Credits

Selected topics deemed important by the department to the advancing student in art. May be repeated for credit if topics vary. Depending on the course, student will enroll for two or three credits. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ART-200 Sculpture I 3- Credits

An introduction to three-dimensional form, space and content. Emphasis on construction, fabrication, and assemblage techniques. Students explore relief sculpture and sculpture in the round while developing personal concepts that evolve from and relate to the form. Six hours contact per week. Take ART-110. (Required, Previous). | Take ART-201. (Required, Previous).

ART-201 Three-Dimensional Design Concepts 3- Credits

This studio course is an introduction to three-dimensional design concepts. Students will explore visual and physical properties including structure, scale, space, form, line, light/shadow, volume, weight, density and texture. This course will analyze formal, functional and creative problem solving while

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examining the relationship between form, concept, and material. Six contact hours per week. Cross-listed as THE-201.

ART-203 Ceramics I 3- Credits

Students learn basic hand building and wheel throwing techniques as both functional and sculptural applications. Students explore traditional and experimental firing techniques including the fundamentals of glazing through proper application, health and safety practices. Six contact hours per week.

Take ART-110. (Required, Previous). | Take ART-201. (Required, Previous).

ART-206 Visual Design Concepts 3- Credits

This studio-based interdisciplinary course builds on the foundational principles of design as visual organization and expression. Through projects and critiques, students are introduced to processes and strategies for creative problem solving. The perception and theory of color are explored with emphasis placed on connecting color, materials and meaning. Six contact hours per week. Cross-listed as THE-206.

ART-210 Drawing and Design II: the Art of Self To Society 3- Credits

This course continues the advancement of drawing skills and design concepts while exploring the major themes of the figure (building from the self-portrait), abstraction, and a culminating theme of social impact. Developing observational drawing skills, applying the elements and principles of design, communicating with visual form, and understanding perception will be emphasized along with the historical background of the themes. Gallery and artist studio visits, as well as visiting artists' presentations, provide a contemporary and local context for the concepts of the course. Six contact hours per week.

Take ART-110. (Required, Previous).

ART-221 Painting I 3- Credits

Basic instruction in painting media and techniques as well as in the development of form and content. Six contact hours per week.

Take ART-110. (Required, Previous). | Take ART-206. (Required, Previous).

ART-226 Typography 3- Credits

This studio course introduces students to the history, aesthetics, vocabulary and process of typography – the study and use of letterforms in graphic design. Students grow their understanding of form, composition, and the expressive potential of typography through a series of typographically focused studio projects. Emphasis is placed on understanding the creative potential and role of typography in meaningful visual communication. Six contact hours per week.

Take ART-110. (Required, Previous). | Take ART-206. (Required, Previous).

ART-229 Introduction to Graphic Design 3- Credits

Students engage in studio-based studies that explore the potential of visual communication through the meaningful interrelation of word and image. Through immersive studio projects, lectures, demonstrations and critiques, students are introduced to the following essential design practices: creative strategy development; iterative design processes; product prototyping, tools, production skills, and presentation strategies. Six contact hours per week.

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Take ART-110. (Required, Previous). | Take ART-206. (Required, Previous).

ART-237 Printmaking I 3- Credits

An introduction to relief and intaglio printmaking media. Students are introduced to relief techniques such as the linocut and the woodcut, and to intaglio techniques such as the drypoint and etching. This course fulfills one of the requirements for art education certification. Six contact hours per week.

Take ART-110. (Required, Previous). | Take ART-206. (Required, Previous).

ART-255 Time-Based Concepts: From Still to Movin 3- Credits

This studio-based course examines the creation of digitally produced images in both still and motion media. Application of formal elements and design principles will be addressed while students use industry standard production software to communicate visual concepts. Students will also gain historical perspective on how technology has changed the way in which visual imagery is produced and experienced through the analysis of key exemplars found in photography, film, social media, advertising and fine art. Six contact hours per week.

ART-303 Ceramics II 3- Credits

Continued skill development in hand building and wheel throwing techniques. Expectation of different clay bodies, slips, firing process, glaze materials, and glaze applications. Further exploration of functional and sculptural applications along with the development of personal concepts. Six studio contact hours per week

Take ART-203. (Required, Previous).

ART-310 Drawing III 3- Credits

Students are expected to propose advanced drawing projects that develop from observational strategies into a cohesive thematic series. Project proposal development historical through contemporary exemplar research, materials explorations, technical experimentations and artwork presentation methods are emphasized. Six contact hours per week.

Take ART-210. (Required, Previous).

ART-321 Painting II 3- Credits

Further instruction in painting media and techniques as well as in the development of form and content. Students are encouraged and guided toward a more personal mode of artistic expression. Six contact hours per week.

Take ART-221. (Required, Previous).

ART-327 Creative Thinking in Graphic Design 3- Credits

This intermediate design studio course introduces strategies and processes for enabling and utilizing creative thinking for the purpose of developing solutions for visual communication problems. Many perspectives, views and methods of creativity will be presented and explored via studio projects. Special emphasis is placed on the integration of traditional and digital media. Six contact hours per week.

Take ART-226. (Required, Previous). | Take ART-229. (Required, Previous).

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ART-336 Moving Murals: Painting for Social Change 3- Credits

This course provides historical background on the Mexican Muralist Movement as well as analysis of contemporary murals which emphasize social change. With this framework in mind, students will plan and execute a collective mural as a donation to a community. In addition to studying mural painting techniques, students will learn how to craft a proposal, develop the ideas, and work with the community to create a social impact. Six contact hours per week.

Take ART-221. (Required, Previous).

ART-341 Design for Social Impact 3- Credits

This course introduces students to design processes and skills for social impact, including qualitative design research (human-centered research focused on creating new services, experiences and products) and co-design processes (designing solutions with users, rather than for users). Students learn course competencies primarily through applied, collaborative, semester-long projects. Six contact hour per week.

Take ART-226. (Required, Previous). | Take ART-229. (Required, Previous).

ART-343 Design for Print Media 3- Credits

Advanced study and application of systems, principles, and procedures underlying the practice of graphic design as related to print based applications. Emphasis is placed on audience research, creative concept development, iterative design processes, product prototyping, production/craft, and presentation skills leading to appropriately designed experiences for targeted audiences. Six contact hours per week.

Take ART-226. (Required, Previous). | Take ART-229. (Required, Previous).

ART-349 History, Theory, and Practice in Graphic Design 3- Credits

This studio course examines the emergence of the graphic design profession from the 19th century to present day. This examination includes how significant social, political, economic, and technological milestones have shaped and evolved the graphic design profession to where it is today. Students will study major ideas, schools, design movements, and design practitioners through readings, written and visual analyses, and studio projects. Six contact hours per week.

Take ART-226. (Required, Previous). | Take ART-229. (Required, Previous).

ART-355 Photography II 3- Credits

Students will further develop their technical and creative skills toward more personal conceptual image-making. Through everyday studio practice students will advance their knowledge of light/color and composition to create powerful images that tell stories, illustrate ideas and seduce (marketing/advertising). Digital image capture Digital SLR Camera with interchangeable lenses required. Six contact hours per week

Take ART-255. (Required, Previous).

ART-371 Introduction to Art Therapy 3- Credits

A survey of art therapy techniques, history, and case studies. One hour lecture, six hours contact per week. Cross-listed as PSY-371.

Take PSY-230. (Required, Previous).

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ART-375 Documentary Photography 3- Credits

Students will study images created by photographers for government, news, magazine, and other media outlets from 1930 to present day. Students will research documentary ideas and create visual narratives in both long essay and short story form for print or web-based publications. Digital single lens reflex camera with interchangeable lenses required. Six hours of contact time per week. (At Discretion of Department)

Take ART-255. (Required, Previous).

ART-380 Special Topics in Art 2-3 Credits

Selected topics deemed important by the department to the advancing student in art. May be repeated for credit if topics vary. Studio fee required when department space and equipment utilized. Depending on the course, student may enroll for two to three credits. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ART-381 Special Topics: Indianapolis Art Center 1-2 Credits

These select courses are held at the Indianapolis Art Center and are available for college activity credit. For more information, contact the Department of Art and Design, the Office of the Registrar, or the Indianapolis Art Center. Studio fee required. Depending on the course, student may enroll for one to two credits. These credits do not count toward the Studio Art or Graphic Design majors or minors.

ART-429 Design for Digital Media 3- Credits

Advanced study and application of systems, principles, and procedures underlying the practice of graphic design as related to digitally based applications. How the designer plays a critical role in defining user experience is explored throughout the research, creative, design, and production processes. Six contact hours per week.

Take ART-226. (Required, Previous). | Take ART-229. (Required, Previous).

ART-460 Art and Design Internship 3-6 Credits

The internship in art and design permits students to earn academic credit for professional work that deals with their major and prepares the student for graduate school and/or professional practice. Field experience is contracted between the student and the cooperating establishment with approval of the department liaison. Students are evaluated by their on-the-job supervisor and monitoring faculty member. Students may enroll for three to six credits. Expectations: 60 work hours during the semester is required for each credit to be earned, weekly journal, visual documentation, written and oral report at the conclusion of the field experience. Graded S/U.

ART-461 Art Therapy Internship 1-3 Credits

The art therapy internship permits students to earn academic credit for professional work experience and prepares them for graduate school. Field experience is contracted between the student and the cooperating establishment with the approval of the department liaison. The contract includes goals, procedures, credit assignment, supervision and evaluation criteria. Students are evaluated by their on-the-job supervisor and monitoring faculty member. Students may enroll for one to three credits.

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Expectations: 60 work hours during the semester is required for each credit to be earned, weekly journal, written and oral report at the conclusion of the field experience. Graded S/U.

ART-480 Special Topics in Art 2-3 Credits

Selected topics deemed important by the department to the advancing student in art. May be repeated for credit if topics vary. Depending on the course, student will enroll for two or three credits. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ART-490 Senior Studio Seminar 1- Credits

A departmental seminar for majors in graphic design and studio arts. Visual arts and its relationship to the general education senior topic and assigned readings are discussed. Students are required to participate in a class project and to attend all required convocations.

Take 94 credits. (Required, Previous).

ART-491 Portfolio Preparation and Professional Practices 2- Credits

Professional practice and portfolio preparation for studio art and graphic design students. Students are mentored toward entry into professional practice or admittance to graduate school through hands-on experiences and preparation of the following products: studio projects proposal writing; artist/designer and exhibition statements; resumé and application letter writing; and final senior portfolio development. Emphasis is placed on articulating a personal mission and vision for a sustained vocation in the visual arts. Four contact hours per week.

ART-499 Independent Study 1-3 Credits

Advanced work in any graphic design or studio art subject, including a planned program while engaged in foreign travel. Studio fee is assessed when department space and equipment are utilized. Student may enroll for one to three credits.

BEH-650 Behavior Analytic Concepts 3- Credits

This course focuses on foundational concepts in the field of behavior analysis and ensure each student is able to both identify and apply various techniques in the field as a behavior analyst. The concepts addressed in this course include, but is not limited to the following: philosophical underpinnings of the field; operant conditioning, reinforcement and punishment; reinforcement schedules; extinction; stimulus control; motivating operations, and rule governed versus contingency shaped behaviors. Crosslisted with SPD-650.

BEH-652 Advanced Behavior Analytic Prin & App 3- Credits

This course introduces and allows the analysis of more complex concepts and principles within the field of behavior analysis. This course focuses on a variety of topics including, but not limited to, the following: prompting and transferring stimulus control; chaining; antecedent procedures; behavior skills training; punishment and ethics; promoting generalization; self-management; habit reversal procedures; and behavior contracts. Crosslisted with SPD-652.

Take BEH-650. (Required, Previous).

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BEH-654 Behavior Assessment and Change 3- Credits

This course is designed to improve students' ability to assess, determine the function of a behavior, identify appropriate interventions, and implement interventions. This course dives deeper into the following concepts: functions of behavior; choosing and implementing function-based interventions; creating data collection sheets; identifying replacement behaviors, choose and implement a reinforcement schedule; and assess if individuals are making progress; creating behavior-based goals; identifying potential reinforcers; and collaborate with others in the lives of individuals. Crosslisted with SPD-654.

Take BEH-650. (Required, Previous).

BEH-656 Ethical Practice Beh Analysts 3- Credits

This course will focus on the Ethical Code set for by the Behavior Analyst Certification Board (BACB) and the expectations for those holding the Board Certified Behavior Analysts (BCBA) credential. This course will work through the Ethical Expectations, as well as providing students a chance to analyze situations and discuss the ethical implications. This course will also allow students opportunities to support their case in an ethical manner for multiple cases. Crosslisted with SPD-656.

BEH-658 Verbal Behavior Found & Design 3- Credits

This course provides operants in the field of behavior analysis, as well as the application of each. During this course, students will be able to practice with the verbal operants, create plans to teach the operants to individuals, and create plans to train others to implement the verbal operant plan. Crosslisted with SPD-658.

BEH-660 Exper. Design & Data Anaysis 3- Credits

This course prepares behavior analysts to be knowledgeable in research, specifically single-subject design. Skills included in this course include but are not limited to: operationally defining a behavior; working with multiple data collection methods and measurement systems; graphing data; analyzing graphed data; variables; and validity. This course will prepare behavior analysts to analyze research and for beginning their own research. Crosslisted with SPD-660.

Take BEH-650. (Required, Previous).

BEH-662 Personnel Development and Management 3- Credits

This course will focuses on building pre-service BCBA's skill set in the area of training staff, providing feedback to staff about performance, and on-going staff development through the Performance Management (PM) lens. Included in this course is a focus on supervision and ensure it is quality and ensures growth. Crosslisted with SPD-662.

Take BEH-650. (Required, Previous). | Take BEH-652. (Required, Previous).

BEH-663 Child Development & Behavior Analysis 1- Credits

This course analyzes child development; include physical, social-emotional, and cognitive development. This course teaches students how to determine gaps in all areas of child development. Students will then create a skill development plan rooted in behavior analytic techniques to address the lacking skill(s).

ATTENTION: The below descriptions should only be referenced for the 2023-24 academic year. All real-time course descriptions are available in the live [University Catalog of Courses and Sections Offerings](#).

Take BEH-650. (Required, Previous). | Take BEH-652. (Required, Previous). | Take BEH-654. (Required, Previous). | Take BEH-656. (Required, Previous). | Take BEH-658. (Required, Previous). | Take BEH-660. (Required, Previous). | Take BEH-662. (Required, Pr

BEH-665 Behavior Analysis and Exceptionalities 2- Credits

During this course students will critique the characteristics of multiple exceptionalities and the impact each disability can have on an individual. Students will identify skill deficits that correlate to the exceptionality and complete assessments to determine the individual's needs. Students will learn how to create a behavior analytic intervention plan to support the individual.

Take BEH-650. (Required, Previous). | Take BEH-652. (Required, Previous). | Take BEH-654. (Required, Previous). | Take BEH-656. (Required, Previous). | Take BEH-658. (Required, Previous). | Take BEH-660. (Required, Previous). | Take BEH-662. (Required, Pr

BEH-667 Consultation & Collaboration in Ed 3- Credits

This course is designed to provide students who wish to practice in educational settings a specific set of knowledge and skills. During this course, students will learn the consulting model when practicing in the education settings.

Take BEH-650. (Required, Previous). | Take BEH-652. (Required, Previous). | Take BEH-654. (Required, Previous). | Take BEH-656. (Required, Previous). | Take BEH-658. (Required, Previous). | Take BEH-660. (Required, Previous). | Take BEH-662. (Required, Pr

BEH-669 Special Education and Behavior Analysis 3- Credits

This course dives into special education best practices and law providing behavior analysts who wish to practice in an educational setting. Students will learn needed special education law relevant to their consulting work. This course also dives into legalities of the Individualized Education Programs and the behavior analyst's role in the evaluation process and then implementing the program. S

Take BEH-650. (Required, Previous). | Take BEH-652. (Required, Previous). | Take BEH-656. (Required, Previous). | Take BEH-654. (Required, Previous). | Take BEH-658. (Required, Previous). | Take BEH-660. (Required, Previous). | Take BEH-662. (Required, Pr

BEH-671 Advan Behav Assessment and Consultation 3- Credits

This course extends upon the knowledge and skills learned in 654 and provides students an opportunity to assess and consult at the next level. During this course students will analyze and complete 6 case studies, observations, and a Functional Behavior Assessment. This course also provides students with the opportunity to analyze the consultation role of a behavior analyst in multiple settings.

Take BEH-650. (Required, Previous). | Take BEH-652. (Required, Previous). | Take BEH-654. (Required, Previous). | Take BEH-656. (Required, Previous). | Take BEH-658. (Required, Previous). | Take BEH-660. (Required, Previous). | Take BEH-662. (Required, Pr

BEH-673 Intervention Identi & Implementation 3- Credits

This course focuses on identifying function-based interventions, intervention implementation, and data driven decisions. Students will analyze functions of behaviors of concern in various case scenarios and in the field to determine an intervention. Students will learn practice data collection in the field, as well as training others on data collection.

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Take BEH-650. (Required, Previous). | Take BEH-652. (Required, Previous). | Take BEH-654. (Required, Previous). | Take BEH-656. (Required, Previous). | Take BEH-658. (Required, Previous). | Take BEH-660. (Required, Previous). | Take BEH-662. (Required, Pr

BEH-675 Assessment of Autism Spectrum Disorders 3- Credits

During this course students will learn more about Autism Spectrum Disorder, how it presents and the variability among individuals with Autism Spectrum Disorders. Students will also dive into the various assessments for Autism Spectrum Disorder. Lastly, students will analyze various cases of individuals diagnosed with Autism Spectrum Disorder.

Take BEH-650. (Required, Previous). | Take BEH-652. (Required, Previous). | Take BEH-654. (Required, Previous). | Take BEH-656. (Required, Previous). | Take BEH-658. (Required, Previous). | Take BEH-660. (Required, Previous). | Take BEH-662. (Required, Pr

BEH-677 Autism Spectrum Disorder Interventions 3- Credits

This course focuses on intervention options for those diagnosed with Autism Spectrum Disorder. Students will be able to analyze interventions, including behavior analytic interventions for the treatment and plans of individuals with Autism Spectrum Disorder. This course also allows the student an opportunity to analyze case studies, choose appropriate and ethical interventions rooted in research. Take BEH-650. (Required, Previous). | Take BEH-652. (Required, Previous). | Take BEH-654. (Required, Previous). | Take BEH-656. (Required, Previous). | Take BEH-658. (Required, Previous). | Take BEH-660. (Required, Previous). | Take BEH-662. (Required, Pr

BEH-681 Principles in the Field 3- Credits

This course provides students the opportunity to practice behavior analytic principles in the field. During this course students will secure a placement and a supervisor to mentor them during the semester. Students will record weekly the behavior analytic principles and/or techniques implemented within the field.

Take BEH-650. (Required, Previous). | Take BEH-652. (Required, Previous). | Take BEH-654. (Required, Previous). | Take BEH-656. (Required, Previous). | Take BEH-658. (Required, Previous). | Take BEH-660. (Required, Previous). | Take BEH-662. (Required, Pr

BEH-683 Principles in Practice-Practicing in Sch 3- Credits

This course provides students the opportunity to practice behavior analytic principles in the field. During this course students will secure a placement in an education setting, and a supervisor to mentor them during the semester. Students will record weekly the behavior analytic principles and/or techniques implemented within the educational setting. Lastly, work in the field is connected back to the Task List.

Take BEH-650. (Required, Previous). | Take BEH-652. (Required, Previous). | Take BEH-654. (Required, Previous). | Take BEH-656. (Required, Previous). | Take BEH-658. (Required, Previous). | Take BEH-660. (Required, Previous). | Take BEH-662. (Required, Pr

BEH-685 Prin in Practice-Autism Spectrum Disorde 3- Credits

This course provides students the opportunity to practice behavior analytic principles in the field with individuals diagnosed with Autism Spectrum Disorder. Students may choose one or two placements. This course also focuses on theory to practice, as well as connecting work to the Task List.

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Take BEH-650. (Required, Previous). | Take BEH-652. (Required, Previous). | Take BEH-654. (Required, Previous). | Take BEH-656. (Required, Previous). | Take BEH-658. (Required, Previous). | Take BEH-660. (Required, Previous). | Take BEH-662. (Required, Pr

BIO-151 General Biology 4- Credits

As an introduction to the study of biological sciences, this course includes an investigation of the basic principles of the study of life including: the scientific process, macromolecules, cell structure and function, genetics, evolution, and ecology. Not recommended for students intending to major in biology. Three lecture hours and three lab hours per week. This course satisfies the general education requirement in the scientific knowledge category.

Take BIO-151L. (Required, Concurrent).

BIO-151L General Biology Lab - Credits

BIO-151 lab

Take BIO-151. (Required, Concurrent).

BIO-180 Special Topics in Biology 1-4 Credits

Special topics in biology as deemed necessary by needs of students. The course may include extensive field trips, lab opportunities, or special classes on important topics in biology. May be enrolled for one to four credits. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

BIO-198 Introductory Research 1-3 Credits

Under the direction and approval of a faculty sponsor, students will learn and implement the basic processes of research. With faculty supervision, students will perform elements of a research project: perform relevant literature reviews, create a valid experiment/research design, submit a proposal, execute an experiment/research design, gather and analyze data, report the results in a written manuscript and by a formal presentation. The faculty and student will negotiate the expectations of the project, paperwork, research, experiment/research design, time commitment and presentation of results as appropriate based on the credit value of the course. Three laboratory hours per week are expected per credit hour. This enhancement course may be repeated up to a total of six credits.

BIO-202 Evolution and Ecology 4- Credits

This course examines the relationship between organisms and their environment at the organismal, population, community, and ecosystem levels. It also explores the biological underpinnings of evolutionary theory, including mechanisms of evolution, speciation, phylogeny reconstruction, and evidence. Three lecture hours and three lab hours per week.

BIO-202L Evolution and Ecology Lab - Credits

BIO-202 lab

Take BIO-202. (Required, Concurrent).

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BIO-203 Molecular Genetics 4- Credits

This course presents the basic principles of molecular genetics describing the role of DNA in appearance, behavior, and disease state. In this course, students will examine inheritance through a Mendelian perspective and more complex forms of inheritance. Three lecture hours and three lab hours per week. Take CHE-151 or CHE-140. (Required, Previous).

BIO-203L Molecular Genetics Lab - Credits

BIO-203 lab

Take BIO-203. (Required, Concurrent).

BIO-204 Cell Biology 4- Credits

As a comprehensive survey course, this course emphasizes the cellular, subcellular, and molecular components of eukaryotes, with close attention to the structure-function relationships that govern cellular processes at the molecular level. Topics include, but are not limited to, cellular macromolecules, bioenergetics, membrane structure and function, cell transport mechanisms, structure and function of organelles, cellular metabolism, signal transduction, cellular interaction and communication, and cell movement. The development and improvement of critical thinking practices and proficiency in scientific reading and writing will be emphasized throughout the course. Three lecture hours and three lab hours per week.

Take CHE-152 or CHE-142. (Required, Previous).

BIO-204L Cell Biology Lab - Credits

BIO-204 lab

Take BIO-204. (Required, Concurrent).

BIO-205 Experimental Design and Statistical Analysis for Biologists 4- Credits

An introductory course in experimental design and data analysis intended to encourage an understanding and appreciation of the role of experimentation, hypothesis testing, and data analysis in biology. The course will emphasize principles of experimental design, methods of data collection, descriptive and inferential statistics, and the use of graphical and statistical tools commonly used by biologists to analyze data. Three hours lecture and two hours recitation each week. This course satisfies the general education standards for foundational intellectual skills in quantitative reasoning. This course satisfies the writing intensive requirement in the student's major for biology and CLS majors.

Take 1 group (Take MAT-140; Minimum grade C /Take MAT-215 MAT-230 MAT-215P or MAT-230P). (Required, Previous).

BIO-205L Experimental Design & Stat Analysis for Biologists Lab - Credits

BIO-205 lab

Take BIO-205. (Required, Concurrent).

BIO-214 Microbiology 4- Credits

This course provides students with a working knowledge of generally beneficial, and occasionally harmful microbes (bacteria, fungi, protozoa, algae, helminths and viruses) living in an invisible world around us. Topics will include microbial structure and function; metabolism and growth; physical and

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chemical agents for disruption and control of microbial growth and coverage of disease with immune response to infection. Three lecture hours and three lab hours per week.

BIO-214L Microbiology Lab - Credits

BIO-214 lab

Take BIO-214. (Required, Concurrent).

BIO-216 Medical Terminology 3- Credits

The course consists of a series of modules designed to illuminate the principles behind the construction of medical terms and their usage in regard to body systems. The course will emphasize the prefixes, suffixes and word roots utilized in the medical arena. Whether students use this course as a foundation for a career in many different health-related fields, such as medicine, nursing, physical therapy, pharmacy, dentistry, etc., or if students want to carry on an informed conversation with their healthcare provider, this course will help students to analyze and understand a multitude of medical terms as they are encountered.

BIO-225 Human Anatomy 5- Credits

The content of this course will provide a full description of all the essential aspects of human anatomy. This course is designed to provide all the essential anatomical content required for anyone going forward into a health profession. Four lecture hours and two laboratory hours per week.

BIO-225L Human Anatomy Lab - Credits

BIO-225 lab

Take BIO-225. (Required, Concurrent).

BIO-226 General Human Physiology 5- Credits

The content of this course will provide a full description of all the essential aspects of human physiology. This course is designed to provide all the essential physiological content required for anyone going forward into a health profession. Four lecture hours and three laboratory hours per week.

Take BIO-225. (Recommended, Previous). | Take CHE-100. (Recommended, Previous).

BIO-226L General Human Physiology Lab - Credits

BIO-226 lab

Take BIO-226. (Required, Concurrent).

BIO-228 Marine Biology 4- Credits

This course explores the significant impact oceans have on climate, agriculture, transportation, food supplies, recreational opportunities, economics, and politics. Emphasis in this course will be placed on an understanding of the physical, chemical, biological, and geographical factors of the marine environment that impact our lives. Three lecture hours and two lab hours per week.

Take BIO-151 or BIO-202. (Required, Previous).

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BIO-228L Marine Biology Lab - Credits

BIO-228 lab

Take BIO-228. (Required, Concurrent).

BIO-265L Geographic Information Systems Lab - Credits

BIO-265 lab

Take BIO-365. (Required, Concurrent).

BIO-280 Special Topics Lab 1-4 Credits

Special topics in biology as deemed necessary by needs of students. The course may include extensive field trips, lab opportunities, or special classes on important topics in biology. May be offered for one to four credits. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

BIO-291 Biology Career Seminar 1- Credits

A venue for the presentation of current biological, medical, and environmental career options. The emphasis is on facilitating career pursuits and exposing students to a myriad of post-graduate opportunities early in their career paths. Career planning, preparation and evaluation of appropriate documentation (e.g., resume, c.v., cover letter, thank you letter, etc.), interviewing techniques, and the presentation of one's self in a professional and qualified manner are discussed.

BIO-301 Introduction to Epidemiology 3- Credits

See PBH-301.

BIO-305 Neurobiology 3- Credits

Neurobiology will provide an overview of the fundamental principles of neuronal function, how neurons change and adapt, and how neurons are wired. Concepts discussed will range from the molecular biology of neuronal proteins, neuronal action potentials and ion channel physiology, signal propagation, synaptic function, neuronal networks and behavior. This course will use primary and secondary text to apply your critical thinking and analysis to reading scientific work.

Take BIO-204 BIO-226 or PSY-350. (Required, Previous).

BIO-310 Biochemistry 3- Credits

See CHE-310.

Take BIO-204. (Required, Previous). | Take CHE-305. (Required, Previous).

BIO-311 Biochemistry I 4- Credits

See CHE-311.

Take BIO-204. (Required, Previous). | Take CHE-306. (Required, Previous).

BIO-311L Biochemistry I Lab - Credits

BIO-311 lab

Take BIO-311. (Required, Concurrent).

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BIO-312 Biochemistry II 4- Credits

see CHE-312

Take CHE-311. (Required, Previous).

BIO-312L Biochemistry II Lab - Credits

BIO-312 lab

Take BIO-312. (Required, Concurrent).

BIO-320 Advanced Ecology 4- Credits

A study of the relationships between organisms and their environment at the organismal, population, community and ecosystem levels. Three lecture hours and three lab hours per week.

Take BIO-202. (Required, Previous).

BIO-320L Advanced Ecology and Evolution Lab - Credits

BIO-320 lab

BIO-321 Conservation Biology Law 3- Credits

This course will examine the causes and consequences of species extinction, and will evaluate strategies to ameliorate species loss, restore habitat, and preserve natural areas and resources. The primary focus of the course will be on the biological mechanisms involved, although material from the fields of ethics, economics, and the social and political sciences will be touched on at times. Three lecture hours per week.

Take BIO-202. (Required, Previous).

BIO-323 Ornithology 4- Credits

An examination of the evolutionary history, ecology, and behavior of birds. The lab consists mainly of field identification of species found in Indiana. Two lecture hours and four lab hours per week. Lab fee required.

Take BIO-202. (Required, Previous).

BIO-323L Ornithology Lab - Credits

BIO-323 lab

Take BIO-323. (Required, Concurrent).

BIO-327 Behavioral Ecology 4- Credits

Behavioral ecologists seek to understand how the behavior of animals affects their survival and reproductive success. In this course, we will delve into aggression, communication, sexual, mating and other behaviors from an evolutionary perspective and explore the theological implications of doing so. Three lecture hours and three lab hours per week.

Take BIO-151 or BIO-202. (Required, Previous).

BIO-327L Behavioral Ecology Lab - Credits

BIO-327 lab

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BIO-329 Plant Biology 4- Credits

Land plants are studied in this course in an evolutionary sequence. The anatomy, morphology, and, where appropriate, physiology, of land plants is discussed, using present day groups to reconstruct the evolution of plants. As each group is introduced, the probable selective advantage for characteristics unique to that group are discussed. Three hours of lecture and one three-hour laboratory per week. Take BIO-202. (Required, Previous).

BIO-329L Plant Biology Lab - Credits

BIO-329 lab.

Take BIO-329. (Required, Concurrent).

BIO-330 Histology 4- Credits

The microscopic and ultramicroscopic investigation of tissues, including identification of tissues using light microscopy and the study of ultrastructure using electron micrographs. Three lecture hours and three lab hours per week.

Take BIO-202. (Required, Previous). | Take BIO-203. (Required, Previous). | Take BIO-204. (Required, Previous). | Take BIO-205. (Required, Previous).

BIO-330L Histology Lab - Credits

BIO-330 lab

BIO-334 Human Medical Physiology 5- Credits

The content of this course will provide a full description of all the essential aspects of human physiology. The depth of this course is designed to prepare students for the integrative physiology normally presented in veterinary, dental, or medical schools, or graduate programs in physiology. Five lecture hours per week.

Take BIO-204. (Required, Previous).

BIO-334L Human Medical Physiology Lab - Credits

BIO-334 lab

Take BIO-334. (Required, Concurrent).

BIO-340 Advanced Microbiology 4- Credits

Advanced microbiology is designed to introduce upper level undergraduate and graduate students to current status and advancements in the field of health microbiology. A problem based learning (PBL) approach will be applied to allow students to research, think critically, and solve problems from both medical biology and medical biotechnology.

Take BIO-203 or BIO-214. (Required, Previous).

BIO-340L Advanced Microbiology Lab - Credits

BIO-340 lab

Take BIO-340. (Required, Concurrent).

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BIO-345 Immunology 3- Credits

A study of the vertebrate immune system and its relationship to disease and disease resistance. Three lecture hours per week.

Take BIO-203. (Required, Previous). | Take BIO-204. (Required, Previous).

BIO-346L Immunology Lab 2- Credits

This laboratory course will integrate the principles of cell biology and immunology. Techniques employed include, but are not limited to cell culture techniques, PCR and applications, ELISAs, and microscopy. The course is designed for students interested in molecular methods and who aim to do research or gain jobs in fields of cell and molecular biology, microbiology, medicine and medical technology. Three lab hours per week.

BIO-350 Developmental Biology 4- Credits

A study of the development in higher organisms, including molecular processes and morphogenesis. Three lecture hours and three lab hours per week.

Take BIO-202. (Required, Previous). | Take BIO-203. (Required, Previous). | Take BIO-204. (Required, Previous). | Take BIO-205. (Required, Previous).

BIO-350L Developmental Biology Lab - Credits

BIO-350 lab

Take BIO-350. (Required, Concurrent).

BIO-351 Kinesiology 3- Credits

See ESS-351.

Take 1 group (Take ESS-120 ESS-265 /Take BIO-225). (Required, Previous).

BIO-351L Kinesiology Lab - Credits

See ESS-351L.

Take BIO-351. (Required, Concurrent).

BIO-352 Physiology of Exercise 2- Credits

See ESS-352.

Take ESS-120. (Required, Previous). | Take BIO-151 BIO-226 or BIO-334. (Required, Previous).

BIO-352L Physiology of Exercise Lab 1- Credits

See ESS-352L.

Take BIO-352. (Required, Concurrent).

BIO-355 Environmental Science Methods 4- Credits

Students learn basic methods and techniques in environmental science and the environmental laws and regulations that underlie those methods. Students will gain experience doing important biological assessments and indices, wetland delineation and permitting, NEPA environmental assessment, and other environmental science techniques. Three hours lecture and three hours lab each week.

Take BIO-202. (Required, Previous).

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BIO-360 Junior Internship 1-3 Credits

The junior internship in biology permits students with junior standing to earn academic credit for work or volunteer activity that deals with the biological sciences or prepares the student for graduate and or professional school. The internship is designed to integrate classroom knowledge with practical work experience in the student's chosen area of study. Students are evaluated by their on-the-job supervisor and by their monitoring faculty member. Students also present both a written and oral summation of their experience. A minimum of four hours of actual work experience per week, or 60 hours during the semester, is required for each credit to be earned. Enrollment in the course is arranged after review and approval of the proposed internship by program faculty. This course may be repeated for an accumulated total of six credits.

BIO-361 Introductory Field Biology I 1-3 Credits

A beginning off-campus field experience in biology. Students will travel to a location and learn the biology of that location in-depth. Students will enroll in from 1-3 credits based on the length of this field experience.

Take BIO-202. (Required, Previous).

BIO-362 Introductory Field Biology II 1-3 Credits

A continuation of 361, but in another location. Students will enroll in from 1 -3 credits based on the length of this field experience.

Take BIO-202. (Required, Previous).

BIO-365 Geographic Information Systems 4- Credits

This course will explore the use of geographic information systems to map and analyze spatial data. A wide range of GIS applications not limited to biology will be discussed. Three lecture hours and three hours laboratory per week.

BIO-365L Geographic Information Systems Lab - Credits

BIO-365 lab.

Take BIO-365. (Required, Concurrent).

BIO-370 Evolution 3- Credits

This course examines the biological underpinnings of evolutionary theory, including mechanisms of evolution, speciation, phylogeny reconstruction, and evidences. It then explores the effect of Darwin's theory on a wide range of disciplines, including language, art, literature, history, theology, political science, and sociology. Three lecture hours per week.

Take BIO-202. (Required, Previous).

BIO-373 Zoology 4- Credits

This course examines the basic principles of zoology, including animal structure and function, evolution, behavior, and development. Three lecture hours and three lab hours per week.

Take BIO-202. (Required, Previous).

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BIO-373L Zoology Lab - Credits

BIO-373 lab

Take BIO-373. (Required, Concurrent).

BIO-380 Special Topics in Biology 1-4 Credits

Special topics in biology as deemed necessary by needs of students. The course may include extensive field trips, lab opportunities, or special classes on important topics in biology. May be offered for one to four credits. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

BIO-398 Directed Guided Research 1-4 Credits

Under the guidance of a faculty sponsor, students identify a research topic, perform a literature review, create a research design, gather and analyze data, and report their findings with an APA-style manuscript and formal presentation. Papers deemed to be of sufficient quality by the faculty sponsor may be presented at a regional research conference.

BIO-410 Cell Physiology 4- Credits

A study of molecular and cellular biology with emphasis on the molecular bases of diseases. This upper level cell physiology course will investigate cellular metabolism, membrane structure, cellular communication, and structure-function relationships in the context of human diseases. The depth of this course is designed to prepare students for the integrative physiology normally presented in professional or graduate programs in the health and life sciences. Three lecture hours and three lab hours per week. Take BIO-203. (Required, Previous). | Take BIO-204. (Required, Previous).

BIO-410L Cell Physiology Lab - Credits

BIO-410 lab

Take BIO-410. (Required, Concurrent).

BIO-411 Biochemistry and Metabolism 4- Credits

See ESS-411.

Take CHE-151 CHE-152 CHE-305 or CHE-306. (Required, Previous). | Take BIO-203 BIO-204L ESS-352 ESS-375 PHY-110 PHY-111L. (Recommended, Previous).

BIO-412L Biochemistry and Metabolism Lab 2- Credits

See ESS-412L.

Take BIO-411. (Required, Concurrent).

BIO-415 Genomics and Advanced Genetics 3- Credits

This course presents the current ideas in genetics by using primary literature to discuss topics that include but are not limited to cancer, epigenetics, micro-RNA, pharmacogenetics, and gene expression. In particular, this course will focus on genomics and its impact in society. Three lecture hours per week. Take BIO-203. (Required, Previous).

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BIO-434 Advanced Physiology of Exercise 3- Credits

See ESS-434.

Take BIO-226 BIO-334. (Required, Previous). | Take BIO-310 BIO-311. (Required, Previous). | Take ESS-352. (Recommended, Previous or concurrent).

BIO-434L Advanced Physiology of Exercise Lab - Credits

BIO-434 lab

BIO-440 Principles of Bioinformatics 4- Credits

This course presents the essential components of bioinformatics as a scientific discipline for the organization and analysis of large amounts of biological data, from locating sources of data to project management to visualizing analyses. Students will focus on developing basic skills for working with large data sets and explore modern techniques applicable to careers in basic research, data science, and medicine. The course emphasizes hands on practice with real genetic, -omic, and other data and is designed for students without any prior experience with programming or computational science. Three lecture hours and three lab hours per week.

Take BIO-203. (Required, Previous).

BIO-440L Principles of Bioinformatics Lab - Credits

BIO-440 lab

Take BIO-440. (Required, Concurrent).

BIO-454 Bioassays 5- Credits

This course is designed to provide a platform to interpret, critically analyze, and execute expanded cell and molecular biology techniques. This course will explore the theoretical origins and biological principles that underlie common methodologies in research and expose students to practical learning opportunities in cell culture, western blotting, ELISA, and gene and protein cloning, expression, and analysis. In addition, students will develop basic research skills and expand written and oral scientific communication. Five hours of lecture and hands-on learning per week.

Take BIO-204. (Required, Previous). | Take BIO-205. (Required, Previous). | Take CHE-306. (Required, Previous).

BIO-460 Internship in Biology 1-6 Credits

The internship in biology permits students to earn academic credit for work or volunteer activity that deals with the biological sciences or prepares the student for graduate and/or professional school. The internship is designed to integrate classroom knowledge with practical work experience in the student's chosen area of study. Students are evaluated by their on-the-job supervisor and monitoring faculty member. Students also present both a written and oral summation of their experience. A minimum of four hours of actual work experience per week or 60 hours during the semester is required for each credit to be earned. Enrollment in the course is arranged after review and approval of the proposed internship by program faculty. This course may be repeated for an accumulated total of six credits.

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BIO-461 German Hospital Intern Undergraduate 1- Credits

Marian University, in partnership with the Agaplesion Diakonie Hospital in Rotenburg (Wümme), Germany is pleased to offer undergraduate students internship opportunities, shadowing physicians at the Agaplesion Clinic. Agaplesion Diakonie Hospital is a faith-based hospital and the teaching hospital of the University of Hamburg's Medical School in nearby Hamburg. The hospital, which has twenty-three specialized clinics and over 800 beds, is ranked as offering the highest level of care in Germany. Marian students have the opportunity to work in a variety of departments including Vascular and Endovascular Surgery and Radiology at the Agaplesion Diakonie Hospital.

BIO-462 Environmental Education and Interpretation 2- Credits

Students will learn to interpret nature to a variety of audiences. The students will then apply the interpretive process to programs developed for the Nina Mason Pulliam EcoLab at Marian University. One lecture hour and three lab hours per week.
Take BIO-202. (Required, Previous). | Take BIO-205. (Required, Previous).

BIO-463 Restoration Ecology 4- Credits

This course examines the theory and practice of the environmental restoration of natural areas. Basic ecology is combined with horticultural techniques in order to re-establish native communities of plants and animals in a variety of sites. Students will develop a master plan for the restoration and use of a degraded site based on the interests of the property owner. Extensive work outside will be required in lab. Three hours lecture and three hours lab per week.
Take BIO-202. (Required, Previous).

BIO-463L Restoration Ecology Lab - Credits

BIO-463 lab
Take BIO-463. (Required, Concurrent).

BIO-470 Nutritional Biochemistry 3- Credits

See ESS-470
Take CHE-305. (Required, Previous). | Take BIO-204 or ESS-120. (Required, Previous). | Take CHE-306. (Recommended, Previous or concurrent). | Take BIO-310 or BIO-311. (Recommended, Previous or concurrent). | Take ESS-352 or ESS-434. (Recommended, Previous)

BIO-472 Invertebrate Biology 4- Credits

This course is designed to present students with the diversity of invertebrate life with an emphasis on the developmental biology of invertebrates, their major body plans, evolutionary interrelationships, and ecology. The overlying themes of the presentations will be the structure and function of each system, and to the placement of topics into a framework of evolutionary adaptive significance. Three lecture hours and three lab hours per week.
Take BIO-202. (Required, Previous).

BIO-474 Vertebrate Biology 4- Credits

This course is designed to familiarize students with morphological and anatomical features of vertebrate animals from a comparative evolutionary perspective. The morphological and anatomical forms of

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vertebrates will be examined in the context of their functional significance and evolutionary history. The course will cover both historical and modern views on comparative anatomy, the underlying biology of tissue-organ systems, and evolutionary perspectives on the origin, maintenance, and diversification of form among the vertebrates. Three lecture hours and three lab hours per week.

Take BIO-202. (Required, Previous).

BIO-474L Vertebrate Biology Lab - Credits

BIO-474 lab

Take BIO-474. (Required, Previous).

BIO-480 Special Topics in Biology 1-4 Credits

Special topics in biology as deemed necessary by needs of students. The course may include extensive field trips, lab opportunities, or special classes on important topics in biology. May be offered for one to four credits. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

BIO-490 Biology Seminar 1- Credits

The Senior Seminar addresses the university-wide general education senior theme and text for the year. The common senior experience includes discussion sessions, convocation presentations, and an assessment based upon general education goals. Attendances at convocations are required.

BIO-491 Biology Capstone 1- Credits

During this course, students will complete their Senior Presentation, a multiple-draft paper written over the course of the semester accompanied by a 15 minute seminar on the paper's topic.

BIO-498 Directed Senior Research 1-4 Credits

Under the guidance of a faculty sponsor, students identify a research topic, perform a literature review, create a research design, gather and analyze data and report their findings with an APA-style manuscript and a formal presentation. Papers deemed to be of sufficient quality by the faculty sponsor may be presented at a regional research conference.

BIO-499 Independent Study 1-4 Credits

An independent investigation of a topic in biology. The student must obtain the approval of the program faculty to begin the project and must have a written report accepted by the program faculty to receive credit at the completion of the project. May enroll for one to four credits.

BIO-560 Internship in Biology 1-6 Credits

The internship in biology permits students to earn academic credit for work or volunteer activity that deals with the biological sciences or prepares the student for graduate and/or professional school. The internship is designed to integrate classroom knowledge with practical work experience in the student's chosen area of study. Students are evaluated by their on-the-job supervisor and monitoring faculty member. Students also present both a written and oral summation of their experience. A minimum of four hours of actual work experience per week or 60 hours during the semester is required for each

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credit to be earned. Enrollment in the course is arranged after review and approval of the proposed internship by program faculty. This course may be repeated for an accumulated total of six credits.

BIO-561 German Hospital Intern-Graduate 1- Credits

Marian University, in partnership with the Agaplesion Diakonie Hospital in Rotenburg (Wümme), Germany is pleased to offer graduate and medical students internship opportunities, shadowing physicians at the Agaplesion Clinic. Agaplesion Diakonie Hospital is a faith-based hospital and the teaching hospital of the University of Hamburg's Medical School in nearby Hamburg. The hospital, which has twenty-three specialized clinics and over 800 beds, is ranked as offering the highest level of care in Germany. Marian students have the opportunity to work in a variety of departments including Vascular and Endovascular Surgery and Radiology at the Agaplesion Diakonie Hospital.

BME-226 Biomechanics 3- Credits

Course focuses on the mechanics of deformable bodies. Specifically, mechanical properties of biomaterials, bone, ligaments, and muscle including uniaxial tension, compression, bending, and torsion applied to orthopedic biomechanics. Rigid body planar kinematics and dynamics, finite element techniques with applications to the biomechanics of walking, running, cycling, and other athletic activities will be the focus.

Take EGR-221. (Required, Previous). | Take MAT-305. (Required, Previous). | Take PHY-201. (Required, Previous).

BME-330 Biomaterials 3- Credits

Biomaterials is a multidisciplinary field requiring knowledge of biology, chemistry, materials science, and mechanics. In this course we will examine aspects of chemistry, biology, material science and mechanics as they apply to the interaction of a material with a biological system. Biomaterials used in prosthetic devices, dentures, arterial grafts, orthopedic implants, and other medical applications, as well as biocompatibility, biomaterial/tissue interactions, and other factors involved in the design of implants, biosensors and neuro-prostheses will be investigated. Our examination of the field will lead to a general understanding of biocompatibility and how to design experiments that assess biocompatibility. Take BME-226. (Required, Previous).

BME-352 Biosignals and Systems 3- Credits

This course covers signal representations in the time domain and frequency domain, Fourier transforms, Laplace transforms, Z-transforms, linear systems, transfer functions, system response in time and frequency, analog and digital processing of signals. Relating signal properties to physical parameters. Signals with bioelectric origin are given special attention and their properties and clinical significance are reviewed. In many cases, the methods used for processing and analyzing biomedical signals are derived from a modeling perspective based on statistical signal descriptions. The purpose of the signal processing methods ranges from reduction of noise and artifacts to extraction of clinically significant features. The course gives each participant the opportunity to study the performance of a method on real, biomedical signals.

Take EGR-241. (Required, Previous). | Take EGR-326. (Required, Concurrent).

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BME-366 Biotransport 3- Credits

With the foundations of fluid, heat and mass transfer established in fluids and thermo, this course focuses on specific biological examples of transport including oxygen transport, blood flow and solute transport in biological systems. Additionally, discussion will include integration of fluid, heat and mass transfer in specific biomedical examples such as artificial organ development and extracorporeal devices.

Take EGR-365. (Required, Previous).

BME-451 Bioinstrumentation 3- Credits

Course presents instrumentation and techniques used in acquisition, processing, and presentation of biomedical signals: transducers, sensors, biosensors, and measurement of physical parameters and electrophysiological signals. This course covers both clinical and medical research instrumentation. Specific examples include the design and application of electrodes, biopotential amplifiers, biosensors, therapeutic devices, clinical measurements, implantable devices, non-invasive methods, and medical imaging machines.

Take BME-330. (Required, Previous). | Take BME-352. (Required, Previous).

BME-492 Senior Design II 3- Credits

The course continues substantial design experience started in engineering senior design. This course requires students to work in small design teams to solve a significant engineering problem. Students develop, design, and implement a solution to the engineering problem in conjunction with a faculty advisor. The course reinforces principles of the engineering design process and serves as a capstone for engineering knowledge obtained in the engineering curriculum. The consideration of the ethical and social implications of technology and the basic concepts of business are also aspects of the course. Each student design team is expected to present information related to their project in both written and oral formats. Preliminary paper design is followed by implementation in the lab. It is expected that a complete or partially working system will be demonstrated at the end of the course.

Take EGR-490. (Required, Previous).

BMS-501 Biomedical Science Seminar 1- Credits

This course gives students exposure to presentation styles and current research topics in biomedical sciences. Students may be expected to discuss seminar topics and/or write objective reviews of seminars. This course may be taken twice for up to a total of 2 credits. Graded S/U.

BMS-511 Biostats & Statis Analysis 3- Credits

This course offers a comprehensive introduction to statistical practices relevant to biomedical and clinical research including the development of experimental questions and approaches to data collection. The course also provides an overview of statistical analysis including basic statistical concepts to selection of appropriate statistical methodology using examples from health care and research, emphasizing the relationship between statistics and medical research.

BMS-512 Epidemiology and Public Hlth 3- Credits

This Epidemiology and Public Health course will introduce students to basic content and skills from the public health related disciplines of epidemiology, environmental health sciences, social and behavioral

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sciences, and health policy and management. Concepts that will be covered include: historical foundations of epidemiologic research, measures of disease frequency, standardization, study design, measures of effect, screening, and causality. Students will practice application of the core content and skills in case based exercises and scenarios.

BMS-515 Introduction to the Us Healthcare System 3- Credits

The purpose of this course is to introduce students to the healthcare system in the United States, with an emphasis placed on the impact of public health related disciplines on that system. From relevant legal concepts to ethical dilemmas, we will explore a topics and issues that students are likely to encounter while engaging with a health care organization. In addition, content related to epidemiology, environmental health sciences, social and behavioral sciences, and health policy and management will be covered.

BMS-521 Anatomy, Histology and Embryology I 3- Credits

A course in the identification of anatomical and histological structures and their relationship with function in humans from embryological stages through adulthood. The course will also cover bio-medically relevant techniques in the fields of anatomy, histology and embryology.

BMS-522 Human Anatomy, Histology and Embryology 3- Credits

A continuation of BMS-521.

BMS-531 Medical Biochemistry 3- Credits

A course in human biochemistry with a focus on the biochemical basis of normal and pathological states. The physical and chemical properties of major classes of biological molecules will be discussed as well as the role of these molecules in the pathology of various disease states. Special consideration will be given to the metabolic basis of health and disease. This course will also present an introduction to nutritional biochemistry. This course is open to undergraduate enrollment with permission of instructor.

BMS-532 Molecular Biology and Genetics 3- Credits

A course designed to provide students with a detailed understanding of the fundamental molecular aspects of eukaryotic cellular function. This will include such topics as transcription, translation, DNA replication and repair as well as cell cycle control and apoptosis. The course will also cover fundamental mechanisms of inheritance, the role that mutations play in evolution and disease, the structure and function of chromosomes and genomics.

BMS-533 Nutritional Biochemistry 3- Credits

A course in the biochemical aspects of nutrition, including the digestion and absorption of various classes of metabolites, vitamins and minerals, and coverage of various nutritional disorders caused by genetic abnormalities and dietary deficiency/excess.

BMS-540 Medical Microbiology 3- Credits

This course provides a detailed study of bacteria, viruses and related microorganisms. Specific emphasis is placed on microbial metabolism, genetics, and research involving microbes, the role of microbes in the global society, infectious diseases, and their linkage to the immune system.

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BMS-541 Lab for Medical and Applied Microbiology 1- Credits

This hands-on course provides a comprehensive introduction to the tools and techniques that underlie clinical microbiology and the research and development activities employed in developing diagnostic and therapeutic technologies.

BMS-545 Immunology 3- Credits

This course provides a detailed study of the vertebrate immune system and its relationship to disease and disease resistance.

BMS-551 Medical Physiology and Pharmacology I 3- Credits

This course covers medical physiology of four major organ systems and the main pharmacological interventions targeting those respective organs. Pathophysiology and pharmacology will be covered to emphasize the clinical importance and mechanisms of action. The course work will provide students with the knowledge and skills to: understand the physiology and pathophysiology of four major organ systems, comprehend the pharmacotherapies related to the organs covered, analyze the relationship between pharmacologic agents and physiologic/pathologic responses and understand the pharmacokinetics and pharmacodynamics of the drugs covered. Some aspects of anatomy will also be provided to allow for a better understanding of the relationship between structure and function. This course is open to undergraduate enrollment with permission of instructor.

BMS-552 Medical Physiology and Pharmacology II 3- Credits

This course is focused on the underlying principles of pharmacology, and the mechanisms of drug action in the human body. Topics include general principles of drug action (pharmacokinetics, pharmacodynamics, and toxicology), a clear understanding of receptor mechanism, and a presentation of drugs in each of the major classes of therapeutic action. We will closely examine; sites of action, metabolic pathways, and the structure activity relationships within drug classes. This course offers a foundation in basic pharmacology for students in medicine, research, pharmacy, or other allied health care fields. This course is open to undergraduate enrollment with permission of instructor.

BMS-580 Special Topics in BMS 1-3 Credits

Topic varies. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

BMS-581 Special Topics in Biomedical Sciences 3- Credits

This course is a guided study designed to prepare the student for further research in a biomedical topic relevant to an area of expertise of their research advisor. Enrollment by consent of instructor. Graded S/U.

BMS-585 Capstone in Biomedical Sciences 3-6 Credits

The Capstone Project for the Capstone Track of the Masters of Science in Biomedical Sciences. Under the guidance of a Capstone Mentor, the student will complete a project that illustrates a level of understanding of a biomedical concept appropriate for a graduate student.

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BMS-599 Thesis Research in Biomedical Sciences 1-9 Credits

Guided research in a biomedical laboratory setting under the direction of the research advisor towards the production of an MS thesis. This course may be repeated for up to 23 credits.

BUS-100 Moral Capitalism 3- Credits

This course explores the evolution of capitalism and its political, ethical, and cultural impacts on society. Insight from Catholic and Franciscan Intellectual Traditions provides a framework to examine capitalism's moral, social, and ethical responsibilities to society. Other systems of economic organization are contrasted with Capitalism. The course includes a leadership lab with 12 leaders per semester invited to share their views on course topics.

BUS-101 Introduction to Business 3- Credits

A survey of the field of business. Students acquire an understanding of and appreciation for business functions and career opportunities. All major aspects of business activity are covered.

BUS-109 Business Plan Competition 9- Credits

This course provides students with an integrated, collaborative and experiential introduction to business in which students collaboratively complete a substantial business project that draws upon the specific theories, tools, methods and knowledge acquired in accounting, economics, and business. Students completing this course will begin to acquire: (1) an understanding of and appreciation for business functions and career opportunities, and (2) the specialized and intellectual skills of the accountant, economist, and business manager. This course partially satisfies the general education requirement in the individual and social understanding category.

BUS-180 Special Topics in Business 1-4 Credits

Selected topics of interest in the field of business. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

BUS-200 Careers in Business: Research and Internships 2- Credits

This course is designed to help students explore careers in business and prepare for their required internship in business. Students build a resume and become acquainted with various features of Handshake and social media that facilitate the job search process. The course includes a professionally administered mock interview, networking event, and career fair.

Take BUS-109. (Required, Previous).

BUS-201 Business Plan Implementation 1-6 Credits

This course is offered to students whose BUS 109 business plan was recognized as the best business plan by a panel of business executives. As winners of a prior semester's BUS 109 business plan competition, students are awarded seed money to open their business on campus. Students manage all aspects of the business. Credits determined by instructor. May count for elective business experience. Graded S/U. Take BUS-109. (Required, Previous).

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BUS-205 Business Statistics 3- Credits

A study of the basic concepts and methods of statistics, including descriptive statistics, probability, sampling theory and practice, hypothesis testing, and correlation. Computers are introduced as tools of analysis. A basic statistics course for students from fields in which statistics find application. This course partially satisfies the general education requirement in the scientific and quantitative reasoning category.

Take MAT-095 MAT-GENP or MAT-GEN. (Required, Previous).

BUS-209 Quantitative Analysis of Business 9- Credits

This course utilizes an integrative, collaborative and experiential approach to engage students in the quantitative analysis of business problems. Students are required to complete a substantial business analysis project that draws upon the specific theories, tools, methods and knowledge acquired in principles of management, principles of marketing, and statistical methods. Students completing the course will acquire: (1) an understanding of and appreciation for a quantitative approach to problem solving, and (2) the analytical skills necessary to tackle contemporary problems in business. This course partially satisfies the general education requirement in the scientific and quantitative understanding category.

Take BUS-109. (Required, Previous). | Take 30 credits. (Required, Previous). | Take MAT-GENP MAT-095 or MAT-GEN. (Required, Previous).

BUS-210 Eff Wrkplc Conv/ Transp Ldrshp 3- Credits

This course will explore practical tools, communication strategies and skills to accomplish workplace goals such as how to effectively handle difficult conversations, improve individual and team productivity, manage productive meetings, give and receive meaningful feedback, manage conflict and foster innovation through engagement and motivation. This course is intended to be applicable to the real-world workplace with a focus on workplace communications and conversations that happen informally every day, as well as workplace leadership that is transparent and authentic. This course hones in on skills needed to bridge the gap between higher education and professional career in the workplace and to learn how to network within your organization. This course is offered only in the MAP program.

BUS-260 Business Practicum 1-3 Credits

Students work in supervised public or private industry positions related to business applications. Practica are expected to be entry-level positions which give students an introduction to administrative business practices and policies. Placements may or may not be paid positions. Students are evaluated both by their supervisor on the job and by means of a paper submitted as an end-of-course project to the monitoring faculty. A minimum of 60 hours of actual work experience is required for each credit earned. May enroll for one to three credits. Graded S/U.

BUS-280 Special Topics in Business 1-4 Credits

Selected topics of interest in the field of business. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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BUS-301 Business Law 3- Credits

A study of the legal relationships of various business entities and the nature of law and the court systems. Topics include constitutional law, torts, contracts, crimes, commercial law and sales, property, litigation, alternative dispute resolution, agency, partnerships, corporations, unfair competition, securities regulation, antitrust and international law. This course is only offered in the MAP program.

BUS-304 Business Ethics 3- Credits

This course deals with a study of the role of ethics, morality, and social responsibility in the business environment. Students are challenged to better understand the role of business managers in dealing with difficult ethical dilemmas, improve their skills in analyzing and resolving business issues and ethical conflicts, and to critically examine assumptions and values that stakeholders have in complex business decisions which raise ethical issues. The case study method is used extensively to review topics such as consumer product safety, truth in advertising, affirmative action, sexual harassment, employee rights and responsibilities, whistleblowing, conflicts of interest and workplace safety. Take 30 credits. (Required, Previous).

BUS-309 Comprehensive Analysis of Business 9- Credits

This course utilizes an integrative, collaborative and experiential approach to engage students in comprehensive analyses of business problems. This course builds on BUS 109 and BUS 209 through the analysis of live problems and issues provided by businesses that partner with the Byrum School. A team of three instructors deliver course content related to the specific theories, tools, methods and knowledge from finance, law, strategic management and previous coursework. Students completing this course will acquire (1) an understanding of and appreciation for actual business problems and issues, and (2) the ability to assess and solve problems that involve strategic interaction within and among competing firms. Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MKT-240. (Required, Previous). | Take MGT-250. (Required, Previous).

BUS-313 Fundraising Concepts and Best Practices 3- Credits

This course is built to give students a basic introduction of theories and concepts of fundraising. Topics of focus include: prospect research, donor and recipient relationships, roles of the staff and board in fundraising, feasibility studies, major donor solicitations, maintaining ongoing fundraising and donors, corporate and foundation fundraising, ethics, and special campaigns. This course is only offered in the MAP program.

BUS-321 Growing Trends 3- Credits

As recent studies have indicated, every nonprofit can benefit from leveraging the web for fundraising efforts. Technology is a vital tool that should be integrated into every fundraising initiative. This course will expose students to technology that can help lead to online fundraising success, including exposure to various fundraising software, channels and payment methods. In addition, students will explore the role technology plays in creating and executing a development plan that is sustainable, professional, and cost-effective fundraising. Topics include defining technology as it relates to fundraising, strategic plans for technology, the role of websites in fundraising, online giving, donor management software, crowdsourcing and communication with technology. This course is only offered in the MAP program.

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BUS-327 Art of the Ask: Identifying, Engaging And Soliciting Donors 3- Credits

This course will provide perspectives from both highly successful fundraisers and philanthropist on how to identify, engage and solicit donations for your cause. First, students will learn how to identify the right donor for your cause. Students will learn how to use cost-effective research tools, accessing free information, and evaluating a prospect's ability and inclination to give. Once funding prospects are identified, fundraisers need to understand how to solicit these individuals and/or organizations. Asking for a gift is both an art and a science. Without an understanding of the most effective methods of asking for financial support, no fundraiser responsible for soliciting gifts from individuals, corporations, or foundations can succeed. In this course, highly successful fundraisers will discuss their approaches to fundraising and strategies they implement when making their ask. In addition, philanthropist will be invited to report on how he or she reacts to a particular ask. This course is only offered in the MAP program.

BUS-330 Leadership 3- Credits

A study of the theory and practice of leadership, the most current research trends and models, as well as the basic components of leadership. This course is only offered in the MAP program. Take MGT-250. (Required, Previous).

BUS-331 Corporate Social Responsibility 3- Credits

The world of Corporate Social Responsibility is evolving. Every day brings new philosophies, theories, best practices and metrics, and there is no singular 'right way' to practice this business model. This class will identify the primary frameworks for Corporate Social responsibility, then review news articles, resources and case studies in order to understand the reasons for CSR initiatives, identify potential challenges or opportunities, and determine efficacy of each program. After this program, each student will be able to understand the potential impacts of CSR on business, identify ways in which these initiatives may be applied in their day to day operations and find connection points between the corporate world and social programs. This course is only offered in the MAP program.

BUS-345 Strategies of Meeting and Event Planning 3- Credits

This course will expose students to the strategies and desired skill sets that are required when coordinating meeting and event planning. This course will focus on conceptualizing, analyzing, and planning considerations of small and large scale community events and corporate and community meeting events. This course will also explore the requirements of event planning as a profession and focus on the core characteristics of a successful event and meeting planner in any given environment. This course is offered only in the MAP program.

BUS-346 Marketing Management 3- Credits

An advanced marketing course that builds upon introductory marketing principles and concepts. The course addresses the analysis of marketing opportunities, the development of marketing strategies, the management of marketing programs, and the challenges confronted in international marketing. This course is only offered in the MAP program. Take MKT-240. (Required, Previous).

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BUS-359 Logistics of Meeting and Event Planning 3- Credits

This course is built on the evaluation and analysis of a variety of case studies, which expose the different strategies most effective in meeting and event planning, from beginning stages to the end of event evaluation. Through this analysis and exposure, students will recognize problems, solutions and best practices throughout the process of planning a meeting or an event. Students will identify problems and propose solutions in the case studies to anticipate necessary preventative measures to ensure a successful meeting or event. Students will be exposed to the consequences of a poorly planned meeting or event through case study analysis, as well as risk management and liability issues that may arise in the planning process of meeting and events, recognizing and understanding preventative and responsive measures to minimize damaged events and relationships. This course is offered only in the MAP program.

Take BUS-345. (Required, Previous or concurrent).

BUS-360 Internship in Business 1-6 Credits

Students work in supervised public or private industry positions related to their specific areas of study. Positions are expected to be at least at the managerial trainee level. Placements may or may not be paid positions. Students are evaluated by their supervisor. A reflection piece is submitted at the end of the internship. A minimum of 60 hours of actual work experience is required for each credit earned. The course may be repeated in subsequent semesters for an accumulated total of six credits. A second internship may count for elective business experience. Graded S/U.

Take BUS-200. (Required, Previous). | Take MKT-240. (Required, Previous). | Take MGT-250. (Required, Previous).

BUS-364 Negotiations and Relationship Management 3- Credits

In this course, students will focus on learning and perfecting the skills associated with negotiation, contracting and safety assurance for a successful meeting/event occasion through the understanding of relationship building and relationship management concepts in the industry. Special attention will be given to branding, the building of brand connections and networking. The course will include a variety of panelists and guest speakers on contract negotiation, safety guidelines and the power of relationships. This course is offered only in the MAP program.

Take BUS-345. (Required, Previous). | Take BUS-359. (Required, Previous).

BUS-365 Internship in Not for Profit Organization 1-3 Credits

This internship experience is designed to give on-the-job educational experiences with not-for-profit organizations to qualified students majoring in the business department. Students work in supervised positions related to their specific areas of study. Positions are expected to be at least at the managerial trainee level. Placements may or may not be paid positions. Students are evaluated by their supervisor. A reflection piece is submitted at the end of the internship. A minimum of 60 hours of actual work experience is required for each credit earned. A second internship may count for elective business experience. Graded S/U.

Take BUS-200 MKT-240 MGT-250. (Required, Previous).

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BUS-369 Capstone: Technology, Promotion & Event Execution 3- Credits

This course will tie it all together and culminate in the execution of an event for the chosen program partner during the final week of the course. This course finalizes the required steps for effecting meeting/event planning. Students will also explore the many types of specific technology needs of all participants. Students will focus on managing the event in a manner that can be used as a marketing tool to promote the organization, covering advertising, promotions, sales, and consumer behavior and how to evaluate and predict consumer behavior in event planning strategies learned previously. This course is offered only in the MAP program.

Take BUS-364. (Required, Previous or concurrent).

BUS-380 Special Topics in Business 1-3 Credits

Selected topics of interest in the field of business. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

BUS-400 Careers in Business: Job Search and Professional Development 1- Credits

A course designed to enhance rising seniors ability to successfully launch and manage the early stages of their career in business. Course emphasis builds upon and integrates career fundamentals, internship experiences, academic accomplishments, and personal achievements.

Take BUS-200 or BUS-290. (Required, Previous). | Take BUS-360 or BUS-365. (Required, Previous).

BUS-480 Special Topics in Business 1-4 Credits

Selected topics of interest in the field of business. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

BUS-495 Business Policy and Strategy 3- Credits

This course serves as the academic capstone experience for business administration, management, and marketing majors. Through a survey of strategic management and policy formulation theory along with participation in a competitive management simulation experience, students acquire an understanding of and an appreciation for the complexities of decision making at the corporate level. Students prepare written case analyses involving business strategy and make oral presentations of their competitive activities within the simulation. This course is only offered in the MAP program.

Take FIN-310. (Required, Previous). | Take 94 credits. (Required, Previous).

BUS-499 Independent Study 1-3 Credits

Guided readings and research.

CBS-205 Introduction to Cybersecurity 3- Credits

Students will explore the Cybersecurity threat topics surrounding standard user experience while engaged in the digital workspaces with various technologies. The focus will include the consumer and commercial aspects which drive the degrees of security vulnerability. Students will be introduced to the basic terminology, concepts, and best practices of computer as well as networks.

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CBS-206 Securing Cyberspace 3- Credits

This course explores online safeguarding, local user data, and resources. From this the origins of these resources must be introduced while coupling the effort with that of the safe practices involving the physical environment protection. This course helps students understand basic terminology, concepts, and best practices to develop strategies for safe industry solutions.

CBS-207 Cybersecurity & Penetration 3- Credits

This course addresses advanced systems securities, vulnerabilities, and exploits. Areas that will be drilled down are network system attacking, ethical hacking, and penetration testing pertaining to the growing demand across all industries. Students will be introduced into the basic terminology, concepts, and best practices of ethical hacking. The students will learn the techniques involved in evaluating the security of a computer networking environment and the attacks against it.

CBS-208 Cybersecurity Enterprise Fundamentals 3- Credits

This course involves multi-faceted areas concerning internal and external business assets. Also, these areas include employee and customer data as it involves privacy and various legal policies. Students will be introduced to the basic terminology, concepts, and best practices of organizational security. The roles and responsibilities of management and security personnel as it pertains to enterprise technologies. The students will learn the technologies used and techniques involved in creating a secure enterprise networking environment.

CBS-290 Security+ Certification Readiness 2- Credits

(Security+) Preparation course is focused on the CompTIA Security+ certification. Students can use this course as preparation leading to the certification or keeping the certification up to date. The preparation is designed to be a continued validation of one's expertise and a tool to expand one's skill set. Preparation includes practice tests and assignments based on the certification exam. Students are required to demonstrate course objectives through the appropriate certification exam preparation materials and completion of the appropriate certification exam at the end of the course. The fee for the certification exam is assessed upon enrollment in the course.

CEN-262 Thermodynamics II 3- Credits

This course covers the fundamental property relation, thermodynamic properties of single and multiple pure phases, homogeneous multicomponent phases, ideal and non-ideal liquid solutions, phase equilibria, chemical reaction equilibria, problem solving techniques, and applications.
Take EGR-261. (Required, Previous).

CEN-361 Transport Phenomena 3- Credits

The course will introduce the fundamental concepts of physical processes of momentum, heat and mass transfer in different processes of momentum, heat and mass transfer in different transport Phenomena. Topics include momentum, heat and mass transfer theory, integral and differential conservation equations, similarities between the three types of transport, dimensionless analysis and time scales, steady-and unsteady-state creeping and laminar flows, transport at interfaces, lubrication theory, boundary layer theory, forced and natural convection with specific application to complex and biological chemical engineering processes. There will be a lab component with this course.

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Take EGR-230. (Required, Previous). | Take EGR-365. (Required, Previous).

CEN-366 Mass Transfer and Separations 3- Credits

This course investigates mass transfer and integration of heat, mass, and momentum transfer into analysis of process operations of gas absorption, distillation, absorption, and liquid extraction. There will be a lab component to this course as well.

Take EGR-365. (Required, Previous). | Take CEN-262. (Required, Previous).

CEN-376 Chemical Reaction Engineering 3- Credits

This course will introduce the fundamentals of chemical reaction engineering. Topics include rate laws, kinetics, and mechanisms of homogeneous and heterogeneous reactions, analysis of rate data, multiple reactions, heat effects, bioreactors, mole balances, reactor design, catalysis and catalytic reactors. There will be a lab component to this course as well.

Take CEN-361. (Required, Previous). | Take CEN-366. (Required, Concurrent).

CEN-435 Chemical Process Design 3- Credits

This course will provide an overview of analysis and design of chemical processing systems. Topics include process design development, process simulation, economic analysis, process safety, flow sheet synthesis and development, and optimum design and design strategy. Student will have the opportunity to apply the basic concepts learned in previous courses to design and analysis of a chemical processing system. This will be done primarily through the design project.

Take CEN-376. (Required, Previous).

CEN-492 Senior Design II 3- Credits

The course continues substantial design experience started in engineering senior design. This course requires students to work in small design teams to solve a significant engineering problem. Students develop, design, and implement a solution to the engineering problem in conjunction with a faculty advisor. The course reinforces principles of the engineering design process and serves as a capstone for engineering knowledge obtained in the engineering curriculum. The consideration of the ethical and social implications of technology and the basic concepts of business are also aspects of the course. Each student design team is expected to present information related to their project in both written and oral formats. Preliminary paper design is followed by implementation in the lab. It is expected that a complete or partially working system will be demonstrated at the end of the course.

Take EGR-490. (Required, Previous).

CHE-100 Elements of General and Biological Chemistry 4- Credits

An introduction to the principles of general chemistry, organic chemistry, and biochemistry. This course is designed for students in the health science areas. Four lecture hours per week.

Take CHE-108L. (Recommended, Concurrent).

CHE-108L Elements of General and Biological Chemistry Lab 1- Credits

This course is an online lab course that compliments CHE 100 General, Organic, and Biological Chemistry. The course utilizes a kit to perform all the experiments from home. This course is only offered in the MAP program.

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Take CHE-100. (Recommended, Previous or concurrent).

CHE-110 Fundamentals of General Organic, and Biological Chemistry I 4- Credits

Also, high school algebra or MAT 105. A broad-based introduction to the essential topics of general chemistry, organic chemistry, and biochemistry. This course is designed primarily for students seeking a B.A. in biology, and does not count towards degree credit for a B.S. in biology or for any chemistry degree. Three lecture hours and three lab hours per week.

Take MAT-095. (Recommended, Previous or concurrent).

CHE-111 Fundamentals of General Organic, and Biological Chemistry II 4- Credits

A continuation of CHE 110. This course is designed primarily for students seeking a B.A. in biology, and does not count towards degree credit for a B.S. in biology or for any chemistry degree. Three lecture hours and three lab hours per week.

Take CHE-110. (Required, Previous).

CHE-140 General Chemistry I 3- Credits

A study of the fundamental laws, principles and theories of chemistry, including the elements and their compounds, types of chemical reaction, structures of atoms and molecules, states of matter, reaction rates, and chemical equilibrium. Recommended lab: CHE-141L

Take MAT-145. (Recommended, Previous or concurrent). | Take CHE-141L. (Recommended, Previous or concurrent).

CHE-141L General Chemistry I Lab 1- Credits

Laboratory study of the fundamental principles of scientific data collection including quantitative and qualitative observation, analog measurement and digital data collection. Observation of principles including solution preparation and properties, radioactivity, atomic structure and molecular structure and properties. Three lab hours per week. CHE-140 lab.

Take CHE-140. (Recommended, Previous or concurrent).

CHE-142 General Chemistry II 3- Credits

A continuation of CHE 141. Three lecture hours per week.

Take CHE-140. (Required, Previous).

CHE-143L General Chemistry II Lab 1- Credits

Laboratory exploration of the principles of General Chemistry including acid-base chemistry, thermodynamics, kinetics, electrochemistry, gas laws and equilibrium. Three laboratory hours per week.

Take CHE-142. (Recommended, Concurrent).

CHE-180 Spcl Tpcs: Chem 1-4 Credits

Special topics in chemistry may include field trips, lab opportunities, or special classes on important topics in the field. Current and previous special topic course descriptions can be viewed on the Registrar's website - Registration Resources page. See course section comments for description.

Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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CHE-215 Intro to Forensic Chemistry 4- Credits

Introduction to precedent in chemistry and the law. Discussion of physical evidence in relation to forensic analysis and presentation in a court of law. Application of chemical identification methods to the analysis of trace evidence, including substances such as paint, fibers, controlled substances, and firearms/arson residues. Three lecture hours and three lab hours per week.

Take CHE-140 CHE-141L. (Required, Previous).

CHE-215L Intro to Forensic Chemistry Lab - Credits

Introduction to methods of preliminary chemical analysis and forensic laboratory techniques. This lab will give students hand-on experience with common forensic techniques to identify unknown substances and analyze common pieces of evidence such as gunshot residue and fibers. This lab also includes a field trip to the Indianapolis Crim Laboratory to allow students to observe these techniques in a professional environment.

Take CHE-215. (Required, Concurrent).

CHE-253 Accelerated General Chemistry 4- Credits

An accelerated study of the fundamental laws, principles and theories of chemistry, including the elements and their compounds, types of chemical reaction, structures of atoms and molecules, states of matter, reaction rates, and chemical equilibrium. This course is designed for students with sound backgrounds in general chemistry and mathematics who would benefit from a more rigorous foundation for later upperdivision courses. Three lecture hours and three lab hours per week.

CHE-270 Environmental Chemistry 4- Credits

The chemistry of the atmosphere, water, and soil, and a study of the environmental problems associated with air and water pollution, and chemical waste. Laboratory focuses on analytical techniques used in the detection and measurement of environmental pollutants. Three lecture hours and three lab hours per week.

Take CHE-110 CHE-152 or CHE-142. (Required, Previous).

CHE-270L Environmental Chemistry Lab - Credits

CHE-270 lab

Take CHE-270. (Required, Concurrent).

CHE-275 Intro to Molecular Modeling & Simulation 2- Credits

Computational modeling of molecular structure and properties using quantum chemistry software. The focus of this course is hands-on and project-based, with minimal emphasis on theory. No previous experience with quantum theory beyond general chemistry is required. Two lecture hours per week.

Take CHE-142. (Required, Previous).

CHE-280 Spcl Tpcs: Chem 1-4 Credits

Special topics in chemistry may include field trips, lab opportunities, or special classes on important topics in the field. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

Take CHE-152 or CHE-142. (Required, Previous).

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CHE-298 Introductory Research 1-4 Credits

This course provides the opportunity for students with a strong interest in chemistry to carry out laboratory or computational research on a topic chosen by agreement with a faculty member, perform appropriate literature searches related to their chosen topic, analyze data, and report their findings through a written report and a public presentation. Students may enroll for one to four credits per semester in consultation with faculty advisor. Course expectations scale with the number of credit hours attempted. One credit corresponds to 3 hours of lab work per week, or the equivalent. The course may be repeated for up to a total of four credits.

Take CHE-151 or CHE-140. (Required, Previous).

CHE-300 Analytical Chemistry 5- Credits

A study of the theory and techniques of quantitative chemical analysis, including gravimetric, volumetric, and spectrophotometric methods together with chemical calculations involving aqueous reactions and equilibria. Three lecture hours and six lab hours per week.

Take CHE-142 or CHE-152. (Required, Previous). | Take CHE-143L or CHE-152L. (Required, Previous).

CHE-300L Analytical Chemistry Lab - Credits

CHE-300 lab

Take CHE-300. (Required, Concurrent).

CHE-305 Organic Chemistry I 4- Credits

A study of the principles of organic chemistry and the chemical and physical properties of organic molecules, including an overview of the most common elementary steps of organic mechanisms. Laboratory focuses on fundamental laboratory techniques in organic chemistry, general synthetic methods, and introductory green chemistry problem-solving skills. Three lecture hours and three lab hours per week.

Take CHE-142. (Required, Previous). | Take CHE-143L. (Required, Previous).

CHE-305L Organic Chemistry I Lab - Credits

CHE-305 lab

Take CHE-305. (Required, Concurrent).

CHE-306 Organic Chemistry II 4- Credits

A continuation of CHE 305. A study of the principles of organic chemistry and the chemical and physical properties of the major classes of organic compounds. An emphasis is placed on problem-solving using organic reaction mechanisms. Laboratory focuses on intermediate laboratory techniques in organic chemistry, spectroscopic methods of compound identification, synthetic methods, and green chemistry problem-solving skills. Three lecture hours and three lab hours per week.

Take CHE-305; Minimum grade C-. (Required, Previous).

CHE-306L Organic Chemistry II Lab - Credits

CHE-306 lab

Take CHE-306. (Required, Concurrent).

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CHE-310 Biochemistry 3- Credits

A study of the biomolecules that make up living systems and their function; enzyme action, kinetics, and inhibition; cellular metabolism and energy processes; the storage and transfer of biological information; laboratory procedures used in the study of proteins and other biomolecules. Three lecture hours and three lab hours per week. Cross-listed as BIO 310.

Take BIO-204. (Required, Previous). | Take CHE-305. (Required, Previous).

CHE-310L Biochemistry Lab - Credits

CHE-310 lab. Cross-listed as BIO 310L.

Take CHE-310. (Required, Concurrent).

CHE-311 Biochemistry I 4- Credits

A study of the essential topics of modern biochemistry, presented both from the perspective of the chemical mechanisms at work and their role in regulation of a chemical pathway. The laboratory sessions are designed to provide students with opportunities to gain hands-on understanding of many of these topics. Three lecture hours and three lab hours per week. Cross-listed as BIO 311.

Take BIO-204. (Required, Previous). | Take CHE-305. (Required, Previous).

CHE-311L Biochemistry I Lab - Credits

CHE-311 lab. Cross-listed as BIO 311L.

Take CHE-311. (Required, Concurrent).

CHE-312 Biochemistry II 4- Credits

A continuation of CHE 311. Three lecture hours and three lab hours per week. Cross-listed as BIO 312. Take CHE-311. (Required, Previous).

CHE-312L Biochemistry II Lab - Credits

CHE-312 lab. Cross-listed as BIO 312L.

Take CHE-312. (Required, Concurrent).

CHE-315 Chemical Toxicology 3- Credits

This course will explore the adverse effects that chemical substances can have on living organisms. Topics will include the kinds of exposure that can occur to toxic agents, the acute and chronic effects that may result, mechanisms of toxicity, carcinogenesis and reproductive damage, and a survey of the major classes of chemical agents that are encountered in our environment, workplace, and society. Three lecture hours per week.

Take CHE-305. (Required, Previous).

CHE-325 Physical Chemistry I 4- Credits

A study of the physical basis of chemistry including classical and statistical thermodynamics, chemical kinetics, quantum mechanics, and the fundamental principles of atomic and molecular spectroscopy. Laboratory focuses on the application of the methods of physical chemistry to experimental

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measurements and data analysis and the solution of theoretical problems using computer-based and other methods. Three lecture hours and three lab hours per week.

Take CHE-152 or CHE-142. (Required, Previous). | Take MAT-231. (Required, Previous).

CHE-325L Physical Chemistry I Lab - Credits

CHE-325 lab.

Take CHE-325. (Required, Concurrent).

CHE-326 Physical Chemistry II 4- Credits

A continuation of CHE 325. Three lecture hours and three lab hours per week.

Take CHE-325. (Required, Previous).

CHE-326L Physical Chemistry II Lab - Credits

CHE-326 lab.

CHE-360 Internship in Chemistry 2-6 Credits

The internship in chemistry is designed to give qualified students the opportunity to obtain credit for work conducted off-campus. Work experience at national laboratories, major research institutions, and within the chemical industry may qualify. Placement is arranged after a review of the proposed experience has been approved by the department faculty. Periodic reports must be submitted by the student and the sponsoring institution. A minimum of 200 hours of work experience in chemistry is required to earn three credits. May enroll for two to six credits. Graded S/U.

Take 18 credits; From Subject CHE; Except courses CHE-100. (Required, Previous).

CHE-380 Special Topics in Chemistry 1-4 Credits

Special topics in chemistry, may include field trips, lab opportunities, or special classes on important topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

Take CHE-152 or CHE-142. (Required, Previous).

CHE-410 Advanced Organic Chemistry 3- Credits

Advanced topics in structure, synthesis, mechanisms, and reactions of organic chemistry. Three lecture hours per week.

Take CHE-306. (Required, Previous).

CHE-415 Instrumental Forensic Chemistry 4- Credits

Application of chemical identification instrumental techniques including UV and IR spectroscopy, gas and liquid chromatography, and mass spectrometry; which are all commonly used in crime labs.

Students will gain hand-on experience with the instrumentation through laboratory case studies.

Additional topics to be discussed include statistics, calibration, quality control, and expert witness testimony. Three lecture hours and three lab hours per week.

Take CHE-300. (Required, Previous). | Take CHE-305. (Required, Previous).

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CHE-415L Instrumental Forensic Chemistry Lab - Credits

This laboratory will give students experience with chemical instrumentation through laboratory case studies. Labs include sample preparation and handling trace evidence analysis, complex substances identification, and common instrumental techniques of forensic interest. This lab also includes a field trip to the Newfield's Conservation Science Laboratory to observe their instrumental methods for analyzing works of art for authenticity.

Take CHE-415. (Required, Concurrent).

CHE-420 Instrumental Analysis 4- Credits

A study of the theory and practice of modern chemical instrumental analysis including elementary electronics and microprocessors, visible and infrared spectroscopy, atomic absorption and emission spectroscopy, chromatography, nuclear magnetic resonance spectroscopy, and electroanalytical techniques. Three lecture hours and three lab hours per week.

Take CHE-300. (Required, Previous).

CHE-420L Instrumental Analysis Lab - Credits

CHE-420 lab.

Take CHE-420. (Required, Concurrent).

CHE-425 Computational Physical Chemistry 3- Credits

Practical computational approaches to solving realistic problems in modern physical chemistry. Topics may include finite difference methods, variational techniques, Hartree-Fock theory, density functional theory, and quantum Monte Carlo methods. Uses the symbolic mathematics program Mathematica. No previous programming experience required. Three lecture hours per week.

Take CHE-325. (Required, Previous).

CHE-430 Advanced Inorganic Chemistry 3- Credits

The structure and properties of solid materials and molecular inorganic compounds based on modern concepts of symmetry and chemical bonding. Three lecture hours per week.

Take CHE-152 or CHE-142. (Required, Previous). | Take 62 credits. (Required, Previous). | Take CHE-325 CHE-326. (Recommended, Previous).

CHE-435 Physical Biochemistry 4- Credits

A study of the problems and applications of physical chemistry methods to modern biochemistry. There is emphasis on experimental techniques. Topics will include spectroscopy, chromatography, sedimentation, electrophoresis, relaxation kinetics, and theories of isotope labeling. Three lecture hours and three lab hours per week.

Take CHE-312. (Required, Previous). | Take CHE-326. (Required, Previous).

CHE-460 Internship in Chemistry 2-6 Credits

The internship in chemistry is designed to give qualified students the opportunity to obtain credit for work conducted off-campus. Work experience at national laboratories, major research institutions, and within the chemical industry may qualify. Placement is arranged after a review of the proposed experience has been approved by the department faculty. Periodic reports must be submitted by the

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student and the sponsoring institution. A minimum of 200 hours of work experience in chemistry is required to earn three credits. May enroll for two to six credits. Graded S/U.

Take 18 credits; From Subject CHE; Except courses CHE-100. (Required, Previous).

CHE-480 Special Topics in Chemistry 1-4 Credits

Special topics in chemistry, may include field trips, lab opportunities, or special classes on important topics in the field. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

CHE-490 Chemistry Seminar 2- Credits

Discussion of major issues in chemistry with emphasis on student presentations (oral and written) of general and specific topics discussed in current chemical journals. Integrates the general education theme and readings. Attendance at convocations is required. Two recitation hours per week.

Take 94 credits. (Required, Previous).

CHE-498 Directed Research 1-4 Credits

This course provides the opportunity for students with strong chemistry background and skills to carry out laboratory or computational research on a topic chosen by agreement with a faculty member, perform appropriate literature searches related to their chosen topic, analyze data, and report their findings through a written report and a public presentation. Papers of sufficient merit and novelty may be presented at a regional research conference. Students may enroll for one to four credits per semester. One credit corresponds to 3 hours of lab work per week, or the equivalent. Up to six credits may count for degree or concentration requirements.

CHE-499 Independent Study 2-4 Credits

An independent study of a laboratory and/or theoretical problem in chemistry. A written report and / or a public presentation may be required to receive credit. May enroll for two or three credits.

COL-099 College Reading and Learning Strategies 3- Credits

This developmental course includes instruction in learning strategies such as notetaking, test taking, time management, and reading textbooks effectively. Reading improvement skills including comprehension skills, reading rate, and vocabulary building make up the three major units of study. Students also learn to utilize their personal learning styles. These learning strategies are applied to students' academic coursework. A grade of C or better is required. COL 099 may be repeated only one time; if the second attempt is unsuccessful, the student is ineligible to return based on lack of progress. Developmental courses, such as COL 099, count toward the credits required for degree completion, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

COL-101 Career Exploration 2- Credits

This course is designed to help students learn more about their own values, interests, personality, and skills, leading to a more informed decision on choice of major – and ultimately – plans for post-collegiate success. The first-half of the semester will utilize career assessments, online tools, videos, informational interviews, guest presentations, and personal reflection as the student learns more about him/herself

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and various academic and career paths available. The second half of the semester will take a more practical approach to career development, including creation and tailoring of career documents, maintaining a professional online presence, completing mock interviews, learning from guest presenters, and goal-setting for the immediate and distant future. Enhancement courses, such as COL 101, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

COL-110 Strategies for College and Career Success 3- Credits

This course incorporates the content of COL-101, Career Exploration, with the learning and practice of several academic success skills. It is required for students who have successfully appealed for readmission to Marian University, and strongly recommended for students on academic probation. This is an enhancement course, but may not be repeated for credit.

COL-180 Special Topics in College Success Success 1-3 Credits

Special Topics in college success and readiness.

COL-360 Career Exploration Internship 1-3 Credits

The internship is designed to give students an opportunity to explore career options not directly related to the student's major area of study. Three class meetings with the director of internships are required for completion of the course. Minimum 60 hours of work experience required per credit. Internship credits do not count toward credits required in a specific major. Graded S/U.

COM-101 Public Speaking 3- Credits

Rhetoric is the art of persuasion and public speaking is the paradigmatic rhetorical act. Practicing the fundamentals of speech construction and delivery, students will cultivate rhetorical awareness – the critical sensibilities required to read a particular situation and craft a strategic response. This course equips students with effective communication skills for academic achievement, professional success, and civic engagement. This course satisfies general education curriculum standards for foundational intellectual skills in speaking and listening.

COM-104 Media Production 3- Credits

This course introduces students to the basic technologies used to create media content. This includes photography, audio, and video production technologies. It provides students with hands-on experience in creating media with different production software. It supplies students with necessary foundational digital knowledge to remain adaptive to the ever-changing operational landscape of production and post-production technologies and software.

COM-109 Listening and Community 3- Credits

In this course, students practice and develop listening competencies in four areas: listening to the self, listening to others, listening to nature, and listening to the divine. Through readings, community-engaged field trips, and exercises, students will deepen their knowledge and practice of listening.

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COM-165 Strategic Communication Princi 3- Credits

Strategic Communication primes students for the dynamic nature of public communication events, campaigns, and projects through case study analysis & a class-wide, public assignment. The class will collaborate within the semester to conceptualize and produce an on-campus event that applies concepts and skills from the discipline to attract audiences for a persuasive purpose.

COM-180 Special Topics in Comm 1-3 Credits

Special Topics in Communication. Current and previous special topic course descriptions can be viewed on the Registrar's website - Registration Resources page.

COM-190 New Media and Digital Culture 3- Credits

Explores the role of new media in public and popular culture. Provides a theoretical overview for the critical evaluation and production of digital texts. Includes participation in various digital platforms as students practice digital literacy and hone skills for robust digital citizenship.

COM-201 Communication for Intentional Communities 1- Credits

This course provides students living in the Dorothy Day House, the Peter Maurin House, or on the First-Year Peace and Justice floor with academic instruction in practical communication skills for living in an intentional community. Students explore topics such as community building, conflict-resolution, consensus based decision making, and strategies for fostering open dialogue. The course also includes a dialogic forum for reflecting on the group's mission and practice. Students may enroll in the course more than once. Students enrolled in this course must participate in the Dorothy Day House or the Peter Maurin House during the current semester. Enhancement courses, such as COM-201, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Graded S/U.

COM-203 Forensics 1-2 Credits

In this enhancement course, students are provided with academic instruction in prepared, extemporaneous, and impromptu speaking as well as the oral interpretation of literature as they prepare for intercollegiate competition. Students enrolled in this course must participate in the Marian University Speech Team and travel to tournaments. This class is repeatable.

COM-205 Student Media 1-2 Credits

In this enhancement course, students create and manage content for The Marian Phoenix, the co-curricular student newspaper and digital media outlet. Enhancement courses, such as COM-205, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Graded S/U

COM-210 The Rhetorical Life 3- Credits

Rhetorical theory explores the many ways that words and symbols shape our view of the world. Unfolding the multifaceted dimensions of "the rhetorical life," students explore the persuasive influence of language, knowledge, culture, and all socio-political action. Students will also evaluate the ethical implications of rhetorical texts from film and TV, political speeches and social movements, and interaction over the Internet.

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COM-221 The Art of Dialogue 3- Credits

The debate over controversial issues such as abortion, gay rights, and affirmative action is often so heated that communication breaks down. This course investigates the theory and practice of dialogue. Dialogue is a way of talking together when we vehemently disagree. Emphasizing skills for empathetic listening and managing conflict, the class will explore how dialogue can create shared understanding.

COM-223 Argumentation and Debate 3- Credits

The course provides an introduction to argumentation theory grounded in the classroom experience of academic debate. Through stretching research skills, evaluating evidence, investigating informal logic, and performing the refutation of claims, this course provides a comprehensive overview of making and questioning arguments.

Take COM-101. (Required, Previous).

COM-225 Strategic Writing for Communication 3- Credits

In the context of an internet-mediated and diverse communications industry, this course equips students for writing in the field of strategic communication. Students write for a variety of audiences across several genres and media as they produce texts for public relations and internal communications. Students review the fundamentals of grammar and style alongside an introduction to visual rhetoric as they create multiple-media compositions in career settings.

Take ENG-112. (Required, Previous).

COM-235 Oral Interpretation of Literature 3- Credits

Students select, analyze, rehearse, and perform a variety of texts such as prose, poetry, and dramatic literature. The course teaches vocal and physical techniques for communicating literature as well as theoretical perspectives that inform interpretation and performance. Cross-listed as THE-235.

COM-239 Professional Writing 3- Credits

See ENG-239.

Take ENG-112. (Required, Previous).

COM-245 Fact Finding and Checking 3- Credits

Sorting through the challenges of truth-seeking in the 21st century, this course prepares students for information gathering in journalism and public relations. From observation and interviews to documents and data, students practice locating, evaluating, and representing information in light of ethical, legal, and professional standards.

COM-246 News Reporting and Writing 3- Credits

News Reporting and Writing is an introductory course that covers the two main tenets of journalism-reporting and writing the news. Students will evaluate news and newsworthiness. They will discuss and practice interviewing, reporting, and writing various types of stories.

Take ENG-112. (Required, Previous).

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COM-250 Business & Professional Speaking 3- Credits

Prepares students for public speaking in business and professional contexts such as meetings, job interviews, sales pitches, training seminars, and motivational storytelling. Develops concepts critical to professional communication: leadership, group dynamics, technological literacy, cultural competence, and constructive criticism.

Take COM-101. (Required, Previous).

COM-275 Intro to Film Production 3- Credits

This course combines an introduction to film theory with the hands-on experience of film production. Students explore how film history, criticism, narrative, and genre influence film production. Students then work as directors and crew members on narrative or non-narrative short films - and critique the finished products. Learning the basics of cinematography, editing, sound, and production design, students explore the ins and outs of filmmaking from inception to completion. Cross-listed as THE-275.

COM-280 Special Topics in Comm 1-3 Credits

Special Topics in Communication. Current and previous special topic course descriptions can be viewed on the Registrar's website - Registration Resources page.

COM-310 Rhetorical Criticism 3- Credits

Investigating metaphor, narrative, ideology, and other rhetorical dynamics, the course surveys methods for analyzing rhetorical texts. Significant contemporary texts of public and popular culture are studied to exemplify critical principles. Critiquing various persuasive messages, students will turn the tools of rhetorical criticism to engaged social criticism. This course fulfills the writing-intensive course requirement for majors in Communication.

Take COM-210. (Required, Previous).

COM-324 Digital Storytelling 3- Credits

This class explores crafting stories with digital video and audio tools. Through the analysis and creation of various digital and interactive media, students learn digital production skills and the principles of narrative logic for creative communication.

Take COM-104. (Required, Previous).

COM-326 Digital Journalism 3- Credits

This course offers a skills-based survey of new media newswriting and digital journalism, and it guides students through these processes with textual, visual, aural, and social media. Students learn about legal and ethical issues in journalism posed by emerging online formats. They also practice producing high-quality, quick-turnaround, short-form works for professional journalism.

Take ENG-112. (Required, Previous). | Take COM-245. (Required, Previous).

COM-332 Community Organizing for Social Justice 3- Credits

This course overviews the theory and practice of contemporary community organizing. Students explore strategies and develop skills for building community, navigating organization, and mobilizing public advocacy for social change. Questions emerge concerning the ethics and effectiveness of various forms

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of activism. This community engaged learning course includes work off-campus as part of a community organizing effort. Cross-listed as SOC-332

Take 30 credits. (Required, Previous).

COM-333 Conflict Transformation 3- Credits

Explores the role of communication in managing interpersonal and organizational conflicts. Balancing theory and practice, topics addressed include negotiation, mediation, nonviolent communication, and reconciliation.

COM-360 Internship/Practicum in Communication 1-6 Credits

An approved internship or work experience related to a particular area in communication. The field experience is contracted between the student and the cooperating agency with the approval of the department liaison. The contract includes goals, procedure, requirements for credit, supervision and evaluation criteria. A maximum of six credits may be earned, of which three credits may apply toward the major. Graded S/U.

Take 62 credits. (Required, Previous).

COM-365 Strategic Communication Project 3- Credits

This course is designed to introduce students to the theories, concepts, and applications of strategic communication. Students will investigate issues that challenge contemporary organizations by analyzing case studies, conducting research, and designing possible solutions. In this community engaged learning course, students will apply these concepts by working with a local organization to develop a strategic communication plan. While working on this project, students will also engage with the function of communication in organizations.

Take 30 credits. (Required, Previous).

COM-367 New Media Writing 3- Credits

The course prepares students to write for contexts such as news, television, radio, and social media. Students study and create projects in new media genres, learning the composing processes and practicing the writing, design, and group-work skills needed in communication industries. Also listed as ENG-367.

Take ENG-112 or ENG-115. (Required, Previous).

COM-380 Special Topics in Communication 3- Credits

Study of selected issues in the discipline of communication (e.g., rhetoric of science, gender in communication). The topic is announced at the time of registration and varies, allowing students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

COM-382 Media Ethics and Law 3- Credits

This course explores the relevant laws and ethical questions concerning the production and consumption of media in the 21st century. Students apply the principles of media law and ethics to situations they are likely to face in their personal and professional lives.

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COM-410 Rhetoric and Culture Seminar 3- Credits

An advanced seminar in the practice of rhetorical criticism, this course explores one theory or topic in the discipline of critical/cultural studies. Examples include colonialism, visual rhetoric, food narratives, or disability studies. Engaging research and writing as a process, students produce a research paper ready for presentation.

Take COM-310. (Required, Previous).

COM-445 National Student Advertising Competition 3- Credits

See MKT-445.

COM-460 Internship/Practicum in Communication 1-6 Credits

An approved internship or work experience related to a particular area in communication. The field experience is contracted between the student and the cooperating agency with the approval of the department liaison. The contract includes goals, procedure, requirements for credit, supervision and evaluation criteria. A maximum of six credits may be earned, of which three credits may apply toward the major. Graded S/U.

Take 62 credits. (Required, Previous).

COM-480 Special Topics in Communication 3- Credits

Study of selected issues in the discipline of communication (e.g., rhetoric of science, gender in communication). The topic is announced at the time of registration and varies, allowing students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

COM-490 Senior Seminar 3- Credits

Departmental seminar for majors in communication. Students will extend their understanding of issues critical to the field by preparing critical work for the senior portfolio. Incorporates the general education senior topic and text.

Take 94 credits. (Required, Previous).

COM-499 Independent Study in Communication 1-3 Credits

Guided readings, research, and production projects in communication. Provides the opportunity for study of topics appropriate for the individual student.

Take 62 credits. (Required, Previous).

COM-H01 Honors Public Speaking 3- Credits

Requirements are identical to COM-101, but content is enriched to challenge students with more experience in public speaking. Limited enrollment to students admitted to the honors program. This course satisfies general education curriculum standards for foundational intellectual skills in speaking and listening.

COU-500 Counseling Skills and Techniques 3- Credits

Basic counseling skills will be developed through role play and practice interviews. Students will learn and practice skills including attending behaviors, questioning, paraphrasing, summarization, reflection of

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feeling, confrontation, and reflection of meaning. Ethical and culturally responsive practices will be emphasized.

COU-505 Group Counseling 3- Credits

Major approaches to group counseling are covered, including theoretical approaches to counseling groups, the various roles counselors play in diverse group models, and basic principles of group dynamics. Students will be trained in group psychotherapy through group discussions, experiential simulations, and role-playing demonstrations.

COU-510 Professional Role of Mh Counselors 3- Credits

An in-depth introduction to the history, roles, functions, and relationships of mental health counselors within the context of health and human services systems. The course introduces the requirements of Indiana Licensing requirements and CACREP Standards for Mental Health Counseling.

COU-515 Ethical and Legal Issues 3- Credits

Aspects of professional functioning, including roles, organizational structures, ethics, standards, and credentialing are examined including an in-depth study of ethical and legal codes of conduct of the counseling profession (i.e., American Counseling Association, American Association of School Counselors, American Psychological Association). Current legal guidelines related to maintenance of records, confidentiality, reporting child abuse/neglect, duty to warn and protect, and involuntary commitment will be examined.

COU-520 Advanced Human Growth and Development 3- Credits

Covers physiological, cognitive, social and psychological developmental processes from conception to death, emphasizing theories, research, and applications to educational and psychological practice.

COU-525 Theories/Techniques School Counseling I 3- Credits

Introduces students to the profession of school counseling, its history and current trends, and the scope of a school counselor's work in elementary, middle, and secondary school settings. Topics include developmental counseling, consultation, knowledge of curriculum, needs assessment and program development, implementation and evaluation. Provides an overall understanding of the organization of schools and the functions of the school counselor and counseling programs. The course also introduces the Indiana Licensing requirements and CACREP Standards for School Counseling.

COU-526 Theories/Techniques School Counseling II 3- Credits

Focuses on the role of the school counselor in special education and crisis prevention and intervention. Topics include special education processes, roles and laws, ethics, disability categories, the Individual Educational Plan (IEP), cultural factors, divorce, bullying, child abuse, death, illness, school violence and disasters, suicide, substance abuse, homosexuality, adolescent parenthood, parent-adolescent crises, rape and sexual assault and eating disorders. Strategies for developing and implementing guidance lessons and prevention programs are discussed.

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COU-530 Career and Lifestyle Counseling 3- Credits

Provides a theoretical foundation and opportunities for practical application of career and lifestyle counseling strategies. Focus is on the acquisition of knowledge and skills necessary to provide professional career counseling services to adolescent and adult populations in a variety of transitional life stages. Students examine major theories of career choice and development, career assessment instruments and their use, and the counseling models associated with these theories and measurements. It will also address the career and life development needs of special populations.

COU-535 Theories/Models of Counseling 3- Credits

Major counseling theories and their relationship to the counseling process are explored. Individual, familial, and systemic models are presented using but not limited to analytical, phenomenological, person-centered, existential, behavioral, cognitive/behavioral approaches. Students will be required to compare and contrast counseling theories and strategies, consider appropriate application of these strategies in diverse populations, and develop a personal model for providing help and facilitating behavioral change.

COU-545 Organization/Administration of Guidance Programs 3- Credits

A study of the models and processes fundamental to the establishment and management of comprehensive school guidance programs. In addition to the traditional responsibilities of administration, education, and supportive functions, students will explore tasks such as the identification of service needs, advocacy, the importance of building and maintaining relationships with supervisory peers and superiors, the ethical and legal reasons for providing quality professional development to ensure a competent staff.

COU-550 Psychopathology 3- Credits

Provides an introduction to the concepts of psychopathology and to the major diagnostic categories of the current DSM with primary emphasis on their development, etiology, prevention, and supporting research evidence. Emphasis is placed on understanding how cultural, biological, social, psychological and spiritual factors are all necessary components to consider when developing an ethical model of treatment planning.

COU-560A Mental Health Counseling Practicum 3- Credits

Counseling methods and techniques are used in individual and group counseling settings under close supervision. Practicum students complete a minimum of 100 clock hours during the semester, approximately 8-10 hours per week at the agency. There is a minimum of 40 hours of direct service with clients with at least 10 of these hours conducting group therapy. A minimum of one hour per week of individual supervision by the on-site supervisor is required. One-and-a-half hours of on-campus group supervision is also required each week.

COU-560B School Counseling Practicum 3- Credits

Application of school counseling methods and techniques in an approved school setting designed to enhance the student's one-to-one counseling skills. Includes 105 hours of practical field experience including a minimum of 40 hours of face-to-face counseling of school students, and other counselor activities. Students will meet on campus each week group supervision and course work.

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COU-580 Special Topics in Counseling 3- Credits

This course covers specialized topics relevant to the field of counseling not contained in other courses. Topics vary. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

COU-600 Assessment and Program Evaluation 3- Credits

Overview of measurement principles and approaches to the assessment of individuals, groups, and programs. Students are introduced to intelligence, achievement, and aptitude tests, personality assessments, and interest inventories and learn to competently administer them to individuals with and without disabilities. Special emphasis is given to counseling decision-making, and treatment planning as well as measuring program effectiveness. Students are introduced to commonly used program development and evaluation methods; reliability and validity; ethical standards for development and usage; test construction; and interpretation. Examples of course projects: Designing a program for a specific mental health need in the community and proposing evaluation methods; developing individualized education plans and monitoring student progress; constructing a test and demonstrating reliability and validity.

COU-605 Statistics and Research Methods 3- Credits

Basic experimental, quasi- and non-experimental research designs and methods are examined with an emphasis on developing a critical approach to examining the research literature in counseling. Statistical topics include statistical inference, hypothesis testing, analysis of variance, correlation, regression, multiple regression, factor analyses, and interpretation of results. Students will critique research articles, conduct relevant empirical research, become familiar with statistical analysis software to analyze data, and write research reports in APA format.

COU-620 Addiction Counseling 3- Credits

Overview of the personal, social, emotional, physiological, and environmental factors related to addictions, with the main emphasis on chemical addictions. Student will be exposed to challenges involved in the evaluations, diagnosis and treatment process of addiction as well as professional, ethical, and legal issues unique to the field of addictions counseling.

COU-630 Multicultural Counseling 3- Credits

Theories and models of multicultural counseling will be used to foster awareness of a student's cultural values and biases and introduce culturally appropriate intervention strategies. Counseling issues within areas of client diversity including national origin, physical disability, sexual orientation, socioeconomic status, and others will be explored. (SUM)

COU-630L Multicultural Counseling Lab - Credits

COU-630 lab for study abroad trip registration.

COU-632 Marriage and Family Counseling 3- Credits

System approach, counseling techniques/strategies, research findings, treatment issues, and ethical/social concerns in marriage and family counseling are studied. This includes skill development in

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working with couples and families in a variety of contexts and recognition of the importance of the family in the treatment of mental and emotional disorders.

COU-633 Counseling Children and Adolescents 3- Credits

Overview of theoretical and practical approaches to meeting the mental health needs of children and adolescents in mental health and educational settings. Focuses on the particular assessment and therapeutic skills used when working with children in response to a variety of presenting concerns. Among the topics addressed will be the importance of building rapport and the use of play therapy, art and projective techniques specifically designed for children. Students are also provided with the skills needed to effectively consult with teachers, school administrators, parents, and others.

COU-635 Counseling and Spirituality 3- Credits

Investigates the role of religion and spirituality in the development of a healthy individual. Students critically examine the implications of religious belief systems for counseling practice. Ethical issues relevant to the use of spiritual and religious interventions with individuals, couples, and families are considered, along with current research related to spirituality and counseling.

COU-650 Applied Neuroscience 3- Credits

A survey of current neuroscientific contributions to the understanding of the etiology of various mental disorders and learning processes. This course provides a review of human brain-behavior relationships including neuroanatomy, neurophysiology, cognitive processes, sensory and motor processes, and their interactions with emotion and personality. Empirical research at the intersection of educational research and neuroscience is used to build fundamental knowledge about the ways that children and adults learn and develop. In addition, the neurobiological foundations of mental health and mental illness will be explored by examining likely causes and most effective treatments of the many mental disorders.

COU-660A Internship in Mental Health Counseling 3- Credits

Intensive 2-semester supervised experience in application of basic psychotherapeutic procedures and evaluation techniques in an approved mental health treatment setting. The internship includes a total of 600 hours of clinical work where 240 hours involve providing face-to-face client service. During each semester, students are on-site 20 hours per week for 30 weeks, and have individual face-to-face supervision and on-campus group supervision each week. Graded S/U.

COU-660B Internship in School Counseling 3- Credits

A one-year practical field placement with a school counselor in an approved school setting, including a minimum of 600 contact/clock hours (20 hours per week for 60 weeks). Intern students will also meet on campus each week during each semester for support and coursework. Graded S/U.

COU-661A Advanced Internship in Mental Health Counseling 3- Credits

Advanced Internship students complete a one-semester supervised experience in counseling with children, adolescents, adults, couples, and/or families under the supervision of a professional counselor. Interns participate in a minimum of 300 hours of clinical work during the semester (20 hours per week),

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including a minimum of 120 hours of face-to-face client service and weekly individual face-to-face supervision and on-campus group supervision. Graded S/U.

COU-675 Psychopharmacology 3- Credits

Introduction to the use of psychotropic medications for treatment of mental disorders as applied to children, adolescents, adults, and geriatric populations. Covers the role of neurotransmitter systems on the etiology of mental disorders including anxiety, mood, addiction, personality, impulse, and psychotic disorders. Addresses basic principles of pharmacodynamics, pharmacokinetics, and side effects.

COU-680 Special Topics in Counseling II 3- Credits

This course covers advanced specialized topics relevant to the field of counseling not contained in other courses. Topics vary. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

COU-699 Thesis Option 1-3 Credits

Students should make the decision to complete a thesis during their first year in the program if considering future doctoral study. In lieu of taking a comprehensive examination students write a thesis as the culminating exercise of their program of studies. Students work closely with a faculty member over 2 semesters. The thesis proposal involves identifying a problem, conducting a literature review, developing a hypothesis, designing a study, and beginning data collection. The thesis project includes data analysis and interpretation and the writing and defense of the thesis. Students must complete an accumulated total of 3 credit hours and may repeat the course for up to a total of 6 credit hours. (ADD)

CPE-246 Advanced Programming 3- Credits

This course will provide a mastery of object-oriented programming using the modern programming language. Topics include object-oriented design and programming, programming and debugging tools, documentation, recursion, linked data structures, graphical user interfaces (GUIs), and Students will complete the advanced programming at the end of the course.

Take EGR-151. (Required, Previous).

CPE-303 Intro to Operating Systems 3- Credits

This course will provide basic concepts of computer operating systems. Topics include fundamentals of operating systems. Emphasis on processes, file management, interprocess communication, input-output, virtual memory, networking and security.

Take CPE-246. (Required, Previous).

CPE-341 Linear Circuit Analysis II 3- Credits

The course will provide fundamental concepts and methods of single-phase and three-phase circuits. Topics include time and frequency domain representation of linear systems, analysis of first- and second-order circuits using differential equations, AC circuit analysis, Laplace transforms and the analysis of circuits using Laplace transforms, transfer functions, frequency response, and filters.

Students will get experience with circuits simulation software for circuit analysis.

Take EGR-241. (Required, Previous).

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CPE-343 Digital System Design 3- Credits

This course develops the foundation of computer engineering for computer engineers. Topics include number representations, Boolean algebra, design and simplification of combinational circuits, arithmetic circuits, analysis and design of sequential circuits. A series of logic circuit experiments using CMOS integrated circuits for combination of logic and sequential circuits. Students will get hands-on experience with building digital circuits and system interfacing.

Take EGR-241. (Required, Previous).

CPE-344 Signals and Systems 3- Credits

Topics include Transform Analysis of Signals and Linear Systems. Laplace transforms, z-transforms, Fourier series and transforms, frequency response, stability, modulations and applications.

Take CPE-341. (Required, Previous).

CPE-356 Microprocessor Design 3- Credits

This course will provide a study of microcontroller/microprocessor design and interface. Topics include memory organizations, interfacing techniques, digital and analog interfaces, fractional and floating-point systems, multi-byte arithmetic and numerical techniques, assembly language programming techniques, I/O structure, memory system design, I/O port design and handshaking protocols and interface systems.

Take CPE-246. (Required, Previous). | Take CPE-341. (Required, Previous).

CPE-402 Mechatronics 3- Credits

This course will provide fundamental concept and designing methods of mechatronics system. Topics include A/D, D/A converters, op-amps, filters, power devices, event-driven programming, state machine-based design, DC and stepper motors, basic sensing, and basic machine elements and mechanical CAD, modeling and control.

Take CPE-344. (Required, Previous).

CPE-404 Computer Network and Communications 3- Credits

This course will provide basic concepts of computer communications and networking. Topics include layering concepts, architectures for local, metropolitan, and wide-area networks, routing protocols, Internet operations, transport control and applications, error control, flow control, multiplexing, switching, routing, signaling, congestion control, traffic control.

Take CPE-356. (Required, Previous).

CPE-492 Senior Design II 3- Credits

The course continues substantial design experience started in engineering senior design. This course requires students to work in small design teams to solve a significant engineering problem. Students develop, design, and implement a solution to the engineering problem in conjunction with a faculty advisor. The course reinforces principles of the engineering design process and serves as a capstone for engineering knowledge obtained in the engineering curriculum. The consideration of the ethical and social implications of technology and the basic concepts of business are also aspects of the course. Each student design team is expected to present information related to their project in both written and oral formats. Preliminary paper design is followed by implementation in the lab. It is expected that a complete or partially working system will be demonstrated at the end of the course.

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Take EGR-490. (Required, Previous).

CRJ-270 Introduction to Criminal Justice 3- Credits

This course is designed to explore crime, its context, and especially its causes. A foundation will be provided concerning the basic concepts of crime, law, and criminology. Sociological theories of crime causation will be explored. Crime typologies will be examined. Attention will also be directed at the intersection of crime, race, gender, and class.

Take SOC-101. (Required, Previous).

CRJ-330 Drugs and Social Policy 3- Credits

This course focuses on drug use and abuse as a social reality within contemporary society. It will include a historical analysis of the social construction of drug use, drug users, abuse, and addiction. We will be investigating the complex relationships between individual and group behavior, and social structure.

Take CRJ-270. (Required, Previous).

CRJ-331 Family Violence 3- Credits

Examination of the history of family violence, theories of family violence, and different forms of family violence. Prevention strategies and interventions—the response of social service agencies and the criminal justice system are explored.

Take CRJ-270. (Required, Previous).

CRJ-332 Juvenile Justice and Delinquency 3- Credits

Analyzes the nature, extent, and causes of juvenile delinquency/behavior by minors in contemporary society; factors and conditions contributing to delinquency; control and treatment of offenders and programs for prevention.

Take CRJ-270. (Required, Previous).

CRJ-333 Crime, Media, and Pop Culture 3- Credits

Examination of the ways in which media and pop culture reflect, reinforce, and influence crime and criminal justice policies in North America.

Take CRJ-270. (Required, Previous).

CRJ-371 Crime, Punishment, and Policing 3- Credits

This course examines the ways in which crime is defined, perceived, experienced, and responded to. In particular, it examines the ways these have changed over time, how these changes are linked to other social phenomena, as well their various ramifications for different groups. The primary focus is on the United States, but international issues will also be examined.

Take CRJ-270. (Required, Previous).

CRJ-380 Special Topics in Criminal Justice 1-3 Credits

Selected topics in criminal justice. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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CRJ-460 Internship in Criminal Justice 2-4 Credits

Students are placed in a supervised experience in a criminal justice field according to their career interests and academic abilities. A minimum of five hours per week of on-the-job work is required to earn each credit. Students are evaluated by their on-the-job supervisor and by assignments submitted to the monitoring faculty member. Grade S/U. Cross-listed as SOC/PBH-460.

CST-150 Introduction to Programming 4- Credits

This course introduces students to computer programming concepts using an easy to understand programming language, such as Python. This course covers principles of structured and object oriented programming, writing simple scripts to solve practical problems, and how to break problems into small manageable pieces.

CST-171 Procedural Programming 4- Credits

This course will provide students with an introduction to programming in C++ and structural programming. Material to be covered include but is not limited to: syntax and semantics, classifying errors, variables, assignments, statements, creating and using libraries, screen file input/output. Emphasis will be on developing problem solving skills based on top-down and bottom-up design methods for structured programming

Take MAT-140 MAT-215 or MAT-230. (Required, Previous).

CST-180 Special Topics in Computer Science 1-3 Credits

Special topics in computer science as deemed necessary by needs of students. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

CST-200 Data Structures and Algorithms 4- Credits

This is the second programming course in computer science. This course focuses on applying object oriented design, inheritance, and polymorphism to implement foundational algorithms and their associated data structures including lists, stacks, queues, and graphs. Topics also include sorting algorithms, recursion, and introduction to complexity analysis.

Take CST-171. (Required, Previous).

CST-220 Computer Organization and Assembly Language Programming 3- Credits

This course focuses on processor concepts, instruction pipelining, and assembly language programming. Other topics covered include, digital logic and Boolean algebra, processor instruction sets, data representation, and memory addressing methods.

Take CST-200. (Required, Previous).

CST-250 Design and Analysis of Algorithms 4- Credits

This course will cover advanced topics in data structures and algorithms beyond those studied in CST 200. Central to the course will be an understanding of the asymptotic worst-case performance of algorithms also known as big-O. Students will gain hands-on experience developing algorithms with performance trade-offs in mind, and learn to combine and compose multiple data structures to solve increasingly difficult problems. Topics in graph theory, optimization, dynamic programming, and NP-completeness will be addressed.

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Take CST-200. (Required, Previous). | Take MAT-230. (Required, Previous).

CST-280 Special Topics in Computer Science 1-3 Credits

Special topics in computer science may include field trips, lab opportunities, or special classes on important topics in the field. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

CST-315 Computer Graphics 3- Credits

This course covers topics in 2D and 3D computer graphics. Topics include the rendering pipeline, 2D and 3D transformations and coordinate systems, parallel and perspective projections, color and lighting theory, texture mapping, shading, animation, simulation, particle rendering, and game design
Take CST-250. (Required, Previous).

CST-318 Artificial Intelligence 3- Credits

This course covers the foundations of artificial intelligence. Such topics include introduction to probability and reasoning, design of autonomous agents, finite-state machines, state-space search, game trees, and path planning. Machine learning concepts are introduced such as genetic algorithms and neural networks
Take CST-250. (Required, Previous).

CST-320 Computer Architecture 3- Credits

Computer Architecture is an in-depth exploration of processor design and comparative computer architectures. Topics in specialized computing architectures such as GPU and FPGA are discussed. Other topics include memory and process management, threading, and execution parallelism.
Take CST-220. (Required, Previous). | Take CST-250. (Required, Previous).

CST-330 Computer Networking 3- Credits

This course introduces students to networking principles that compose the Internet Protocol Stack. Topics covered include network hardware components, network organization, topology, distributed application communication, data protocols, packet forwarding and routing.
Take CST-250. (Required, Previous).

CST-340 Database Systems 3- Credits

This course will focus on development and management of database systems. Topics include entity relationship design, table normalization, and Structured Query Language (SQL). Implementation of a database application will be required and may include some web design.
Take CST-250. (Required, Previous).

CST-360 Internship in Computer Science 1-6 Credits

The internship in computer science provides an opportunity to obtain practical work experience in software and technology industries. Work at national laboratories, research institutions, and within the software / technology industry may qualify. Periodic reports must be submitted by the student and the sponsoring institution. A minimum of 60 hours of work experience is required per credit hour. May enroll for one to six credits. Graded S/U

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CST-371 Software Engineering 3- Credits

This course will focus on application of software development concepts to a large programming project. Topics will include software development life cycle, agile development and management techniques, design patterns, coupling and cohesion, and development tools such as version control. A project will be required.

Take CST-250. (Required, Previous).

CST-380 Special Topics in Computer Science 1-3 Credits

Special topics in computer science may include field trips, lab opportunities, or special classes on important topics in the field. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

CST-420 Operating Systems 3- Credits

This course focuses on the resource management of modern operating systems. Topics include CPU scheduling, concurrency, symmetric multiprocessing, memory management, deadlock, virtual memory, and file systems. An introduction to Linux operating systems and parallel processing are also covered.

Take CST-250. (Required, Previous).

CST-450 Theory of Computation 3- Credits

This course covers the abstract and theoretical principles of computing. Topics include formal languages of the Chomsky hierarchy, abstract devices such as automata and Turing machines, context free grammars, Church-Turing Thesis, and the complexity classes of P, NP, NP-Complete, NP-Hard, and unsolvable.

Take CST-250. (Required, Previous). | Take MAT-250. (Required, Previous).

CST-451 Principles of Programming Language 3- Credits

This course considers the principles and practical considerations for the design and implementation of modern programming languages. Topics include language syntax and semantics, dynamic and static binding, variable scope, and data types and abstraction. Modern language paradigms are discussed and compared.

Take CST-250. (Required, Previous). | Take MAT-250. (Required, Previous).

CST-460 Internship in Computer Science 1-6 Credits

The internship in computer science provides an opportunity to obtain practical work experience in software and technology industries. Work at national laboratories, research institutions, and within the software / technology industry may qualify. Periodic reports must be submitted by the student and the sponsoring institution. A minimum of 60 hours of work experience is required per credit hour. May enroll for one to six credits. Graded S/U

CST-480 Special Topics in Computer Science 1-3 Credits

Special topics in computer science may include field trips, lab opportunities, or special classes on important topics in the field. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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CST-490 Senior Seminar Computer Science 2- Credits

This course explores a broad range of perspectives on the role of computer science and technology in society. Questions of ethics, fairness, and technology access are discussed. Additionally, emerging trends beyond the scope of any individual course are covered to present a holistic view of computer science past, present, and future. Attendance at convocations is required. Two recitation hours per week. Integrates the general education theme and readings.

CST-491 Senior Capstone Computer Science 1- Credits

This course provides students with the opportunity to work on a mid-sized software project of the students' own conception. Students will propose, design, plan, and implement a significant software project that represents the culmination of their computer science career. This course will cultivate and strengthen programming skills as well as writing and presenting skill.

CST-498 Directed Research in Computer Science 1-4 Credits

This course allows students with strong computer science proficiency to conduct computational research on a topic chosen in agreement with a faculty member. Duties include literature review, analyzing data, and reporting findings. Projects of merit may be eligible for external presentation. One credit corresponds to 3 hours of lab work per week, or the equivalent. Up to six credits may count for degree or concentration requirements.

CST-499 Independent Study in Computer Science 1-3 Credits

This course allows for an independent study of a significant problem in computer science. A written report and / or a public presentation may be required to receive credit. May enroll for two or three credits.

CUE-100 CUE Partnership Course Title 1-6 Credits

See partner school for course description.

CUE-200 CUE Partnership Course Title 1-6 Credits

See partner school for course description.

CUE-300 CUE Partnership Course Title 1-6 Credits

See partner school for course description.

CUE-400 CUE Partnership Course Title 1-6 Credits

See partner school for course description.

CVE-301 Surveying With Lab 3- Credits

Measurement and digital mapping techniques; integration of surveying methods and techniques, monitoring of structures; spatial data collection and integration with surveying data; adjustment of measurements, concepts of error; surveying control; coordinate systems, transformation; highway vertical curves; Earthwork, leveling and datum consideration, photogrammetry, GPS, GIS, remote sensing, cadastral and construction surveys, digital mapping.

Take MAT-315. (Required, Previous).

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CVE-327 Civil Engineering Materials 3- Credits

A study of the origin, nature, performance and selection criteria of various basic materials used in the practice of civil engineering. These include aggregates, cement, concrete, and bituminous materials. Emphasis will be placed on standard methods of testing and characterization as related to the mechanical behavior of materials.

Take EGR-226. (Required, Previous).

CVE-328 Structural Design I: Steel and Concrete 3- Credits

Behavior and design of reinforced concrete members based on ultimate strength. Beams and slabs in flexure, shear and torsion, development of reinforcement. Columns with axial force plus bending, slenderness effects in columns. Behavior and design of structural steel members and steel-frame buildings, including simple and fixed connections. AISC specifications; elastic theory. Design members to resist tension, compression, bending, torsion; plate girders, composite beams.

Take CVE-327. (Required, Previous).

CVE-330 Analysis of Structures With Lab 3- Credits

Analysis and design of statically determinate and indeterminate structures, under static or moving loads, using classical methods. Equilibrium, stress-strain relations, and compatibility.

Take EGR-222. (Required, Previous).

CVE-332 Hydraulics With Lab 3- Credits

Fluid properties; hydrostatics; kinematics and dynamics of fluid flows; conservation of mass, energy, and momentum; flows in pipes and open channels. Formal laboratory experiments cover basic concepts in analysis of experimental data and methods in hydraulic measurements. A variety of simple laboratory experiments illustrating the principles of hydraulics are performed.

Take EGR-365. (Required, Previous).

CVE-338 Soil Mechanics 3- Credits

Soil formation, phase relationships, index properties and soil classification, soil composition, soil compaction, water in soils, stresses in soils, consolidation, shear strength.

Take CVE-327. (Required, Previous). | Take EGR-365. (Required, Previous).

CVE-411 Environmental Engineering 3- Credits

Quantitative overview of air and water contaminants and their engineering control. Elementary environmental chemistry and transport. Reactor models. Applications of fundamentals to selected current issues in water quality engineering, air quality engineering, and hazardous waste management.

Take CVE-338. (Required, Previous).

CVE-492 Senior Design II 3- Credits

The course continues substantial design experience started in engineering senior design. This course requires students to work in small design teams to solve a significant engineering problem. Students develop, design, and implement a solution to the engineering problem in conjunction with a faculty advisor. The course reinforces principles of the engineering design process and serves as a capstone for

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engineering knowledge obtained in the engineering curriculum. The consideration of the ethical and social implications of technology and the basic concepts of business are also aspects of the course. Each student design team is expected to present information related to their project in both written and oral formats. Preliminary paper design is followed by implementation in the lab. It is expected that a complete or partially working system will be demonstrated at the end of the course.

Take EGR-490. (Required, Previous).

ECE-100 Foundations of Early Childhood Education 3- Credits

Students explore historical and current research in early childhood education, primary models of curriculum and pedagogy in the field, and the relationship between critical aspects of young children's development and the creation of inclusive learning opportunities for all children, including children at risk. Students examine issues in developing and implementing high quality early childhood education experiences for young children with and without disabilities, including the influence of family, culture, and community, the needs of children at risk (e.g. poverty, immigrant status, English Language Learners), and the role of assessment in early learning. Students are introduced to the fundamentals of lesson planning. Standards for professional practice developed by the National Association for the Education of Young Children (NAEYC) will also inform and provide a framework for the course and the program.

ECE-200 Health, Safety, & Nutrition for Young Ch 3- Credits

This course provides an overview of the health, safety and nutritional needs of young children and early childhood practices to ensure the health and well-being of each child in a group setting. Content includes roles and responsibilities of adults in meeting children's diverse needs, the promotion of healthy life style practices, understanding common childhood illnesses and injuries, meeting health, nutrition and safety standards, and planning nutritious meals that are appropriate for each child.

ECE-201 Promoting Literacy Thru Play-Based Instr 3- Credits

This course will demonstrate the complicated role that play has in the development of language and literacy skills. A major part of each topic presentation will be a discussion of the role that play has in the curriculum in enhancing each developmental area. Literacy skills include speaking, listening, and attending, reading and writing. Because learning to play, learning language and learning literacy skills are all part of the process of thinking and communication, the course will provide a view which attempts to demonstrate the integration of language, literacy and play in an early childhood education curriculum.

ECE-202 Early Childhood Curriculum 3- Credits

This course focuses on the development, implementation and assessment of appropriate environments and curricula for young children. Students prepare to utilize evidence-based, developmentally appropriate practices in the context of children's family, culture, language and abilities. Emphasis is on understanding children's developmental stages and developing appropriate learning opportunities, interactions and environments to support each child.

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ECE-260 Early Childhood Field Experience 3- Credits

This course is a minimum of 180 hours and provides students in early childhood education with the opportunity to observe and evaluate children, applying theoretical and practical models from the field of early childhood education. Course activities include structured observation, analysis of the roles of adults, lesson planning, parent conferencing and reflective teaching.

ECE-280 Special Topics in Early Childhood 3- Credits

Readings, discussions, and writing on selected topics. See course section comments for description.

ECN-200 Introductory Economics 3- Credits

A one-semester introduction to the major principles and issues in economics for students who are not majoring in accounting, business administration, economics, finance, management, marketing, or minoring in economics. The course surveys both micro and macroeconomic issues. This course partially satisfies the general education requirement in the individual and social understanding category.

EDU-122 Foundations of Music Education 2- Credits

An introduction to the field of music education and the music education program at Marian University. Class content, activities and assignments are designed to assist students in defining their professional goals and to assess their individual qualifications for entrance into the field. Content to be covered will include, but is not limited to, lesson planning, lesson pacing, understanding and implementing standards, assessment strategies, reinforcement, learning theories, and professionalism. On site experiences with K-12 students are required.

EDU-123 Foundations of Music Education II 2- Credits

Development of fundamental vocal performance techniques and performance skills on guitar, recorder, Ukulele, and other classroom instruments. Peer teaching experiences and introduction to classroom music repertoire for K-12 settings.

EDU-174 Observation and Description of the Child 3- Credits

This course focuses on the variety of ways of observing, recording, and analyzing children's development and behavior. Naturalistic observation is the primary area of study. The course requires students to work in a classroom one morning a week. The visits will occur in day care/pre-school settings.

EDU-180 Special Topics in Education 3- Credits

Selected topics approved by the Educator's College. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

EDU-190 Critical Service Learning I: Dignity of The Individual 3- Credits

Future Educators will explore themselves more deeply than ever before through critical service with local community partners. Critical Service Learning will force students out of their comfort zones and into unfamiliar community funds of knowledge that are crucial to culturally relevant and equity pedagogy.

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EDU-190L Critical Service Learning I Lab - Credits

Critical Service Learning Lab

Take EDU-190. (Required, Concurrent).

EDU-221 Expressive Arts 3- Credits

This course considers the expressive arts - visual arts, drama, dance and movement, music, technology, media, physical education, and health and nutrition - in relation to the Indiana Academic Standards, the NSAE Standards and the content areas of language arts, math, science, and social studies.

Developmentally appropriate practices in arts methods and materials are presented and discussed with an emphasis on process rather than product. Assignments may include writing and presenting integrated activity plans that are developmentally appropriate, designing an arts and content-related bulletin board, observing and interviewing a specials teacher, and attending an arts-related event.

EDU-224 Protocols for Classroom Observations 3- Credits

Students learn effective classroom observation and evaluation protocols and their related terminology using video rounds prior to actual field placements. These techniques will enable students to transfer observation skills from a video platform to an actual classroom environment where they will conduct effective classroom observations and evaluations in order to enhance their own ability to reflect and debrief on their performance as well as the performance of those observed.

EDU-224L Protocols for Classroom Observation Lab - Credits

Protocols for Classroom Observations Lab

Take EDU-224. (Required, Concurrent).

EDU-255 Introduction to Schools and Society Society 3- Credits

This foundation course includes politics and history of education, modern philosophical influences, schools as organizations, standards for teaching, educational equity, roles of teachers in schools, and ethical and legal issues.

EDU-255L Sdy Abd: Schools and Society - Credits

Study abroad experience for students enrolled in EDU-255.

EDU-290 Critical Service Learning II Responsible Stewardship 1- Credits

Future Educators will discover their LEADERSHIP role in caring for our environment, beginning with healthy, sustainable living. This critical service learning will focus on environmental and health sciences. Students will have the opportunity to work with the Nina Mason Pulliam EcoLab and the Ruth Lilly Health Education Center to accomplish key goals and impact the health of local youth.

Take EDU-190. (Required, Previous).

EDU-290L Critical Service Learning II Lab - Credits

Critical Service Learning II: Resp. Stewards Lab

Take EDU-290. (Required, Concurrent).

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EDU-307 Science of Learning 3- Credits

Examines the psychological dimensions of the education process, conditions under which learning occurs, evaluation of learning and related teaching methods. An emphasis will be placed on research-based practices including those from the Institute for Education Science. This course satisfies the writing intensive requirement for the major.

Take EDU-224. (Required, Previous).

EDU-307L Science of Learning Lab - Credits

Science of Learning Lab

Take EDU-307. (Required, Concurrent).

EDU-314 Teaching and Learning in Kindergarten 3- Credits

This course emphasizes theories of learning; personal, social, and moral development; individual and group differences; higher-level thinking; and motivation. Key concepts in kindergarten curriculum are also addressed. The course includes a kindergarten practicum and a service learning experience.

EDU-315 Differentiated Strategies for Teaching And Learning 3- Credits

The course explores multiple ways of organizing curriculum and assessing and instructing children. Styles of learning, multiple intelligences, differentiated instruction, formal and informal assessment strategies, and use of state standards as part of the planning model are components of this course.

EDU-315L Diff Strat for Tching & Lrning Lab - Credits

Diff Strat for Tching & Lrning Lab Learning Lab

Take EDU-315. (Required, Concurrent).

EDU-318 Eng Lrns in Div & Incls Clsrms Inclusive Classrooms 3- Credits

This course introduces the process and stages of second language acquisition, and student capabilities at each stage. The roles of culture and acculturation in language acquisition and classroom performance through outside experiences are a catalyst to the broader diversity in the schools discussion. Teaching strategies, lesson and assessment modification are emphasized. Cross-listed as EDU-518.

Take EDU-307. (Required, Previous).

EDU-318L ENL and Diversity Lab - Credits

ENL and Diversity Lab

Take EDU-318. (Required, Concurrent).

EDU-322 Elementary Music Methods 3- Credits

Application of music methods to the teaching process; emphasis on effective teaching strategies including Orff, Kodály, Suzuki, and Dalcroze pedagogies; classroom management and discipline, instructional clarity, teacher responsibilities inside and outside the classroom, multicultural and diverse populations, current music education textbooks, suitable elementary literature, use of classroom instruments, and evaluation techniques. On- site experiences with P-6 students is required.

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EDU-327 Secondary Music Methods 2- Credits

Application of music methods to the teaching process of choral and instrumental ensembles with students in grades 7-12. Emphasis on effective teaching strategies including rehearsal planning, techniques, and management, teacher responsibilities inside and outside the classroom, working with multicultural and diverse populations, and evaluation techniques for choral and instrumental ensembles. On- site experiences with students in grades 7-12 are required.

EDU-328 Best Practices in Teaching Enl 3- Credits

This course focuses on theory and practice in teaching English to students for whom English is not a native language. It provides an overview of historical and current approaches to teaching language, different contexts for language learning, and various materials available for teaching English. It provides opportunities for students to develop and demonstrate practical skills, gain hands-on experience, and review professional literature.

Take EDU-318. (Required, Previous).

EDU-346 Foundations of Literacy Instruction 3- Credits

This course will analyze all five essential components of reading instruction from foundation to implementation to assessment. Emphasis will be based on current scientifically based reading research to address Phonemic Awareness, Phonics, Fluency, Comprehension and Vocabulary through whole and small group instruction. Clinical application will focus on observation and implementation of whole or small group lessons anchored to course content.

Take EDU-224. (Required, Previous). | Take SPD-130 or SPD-230. (Required, Previous). | Take EDU-307. (Required, Previous).

EDU-346L Found of Literacy Instruct Lab - Credits

Found of Literacy Instruct Lab

Take EDU-346. (Required, Concurrent).

EDU-347 Intensive Interventions in Reading 3- Credits

This course focuses on the identification, assessment and intervention of reading difficulties in each of the five essential components of reading (phonemic awareness, phonics, fluency, vocabulary and comprehension). The course includes diagnosis of reading difficulties, matched scientifically reading research based intensive interventions and multiple forms of assessment including curriculum based measurement and diagnostics. The course will include a clinical field experience component.

Take EDU-346. (Required, Previous).

EDU-347L Intensive Interv Reading Lab - Credits

Intensive Interventions in Reading Lab

Take EDU-347. (Required, Concurrent).

EDU-348 Language and Literacy Methods 3- Credits

This course focuses in an integrated approach to English Language Arts instruction in which reading and writing are taught simultaneously through interdisciplinary text sets. Teacher candidates will learn evidence-based practices for teaching students how to write all genres. A particular emphasis will be

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placed on seamless integration of multiliteracies. Clinical field experience for this course will include observation and clinical demonstration of writing instruction.

Take EDU-224. (Required, Previous). | Take EDU-347. (Required, Previous).

EDU-348L Language and Literacy Methods Lab - Credits

Language and Literacy Methods Lab

Take EDU-348. (Required, Concurrent).

EDU-351 Reading and Writing in the Content Areas 3- Credits

This course focuses on reading, writing, and study skills needed to teach content subjects in middle schools and high schools. Strategies in using reading and writing for learning are included. Teacher candidates also learn to select and prepare reading materials consistent with the skill and maturity levels of students, support English language learners, and promote recreational reading. In addition, this course focuses on the practical experience working in secondary classrooms. The teacher candidate participates in at least 10 hours in a middle school classroom and 10 hours in a high school classroom of appropriate content area. In a follow-up reflection, the teacher candidate displays understanding by connecting coursework to classrooms and comparing middle school and high school students.

Take EDU-190. (Required, Previous). | Take EDU-224. (Required, Previous). | Take SPD-130 or SPD-230. (Required, Previous).

EDU-351L Reading and Writing in the Content Areas - Credits

Reading and Writing in the Content Areas Lab

Take EDU-351. (Required, Concurrent).

EDU-355 Education Around the World 3- Credits

In this course, students will learn about educational systems in different countries. The cultural aspects of countries other than the United States, including social, political, cultural, historical, and economic aspects will be studied. This course partially satisfies the general education requirement in the cultural awareness category.

EDU-358 Assessment of Second Language Learners 3- Credits

This course is designed to prepare the prospective teacher of second language learners for appropriate assessment of children. Various formal and informal assessments will be examined and discussed.

Cultural and language issues will be considered as to their impact on assessment.

Take EDU-318. (Required, Previous). | Take EDU-328. (Required, Previous). | Take ENG-304. (Required, Previous). | Take ENG-307. (Required, Previous).

EDU-358L Assess of Second Lang Lrns Lab - Credits

Assess of Second Lang Lrns Lab

Take EDU-358. (Required, Concurrent).

EDU-380 Special Topics in Education 3- Credits

Selected topics approved by the Educator's College. See course section comments for description.

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EDU-390 Critical Service Learning III: Reconciliation 3- Credits

Future educators will synthesize critical service learning experiences and their deep, lasting (political and societal) impact. Students will be given the unique opportunity to be mentored by community leaders and activists during this intensive experience. Through this critical service learning, students will begin the process of reconciliation, visualizing all of the possibilities for continued growth, action and leadership that will directly impact our Nation's youth and global society.

Take EDU-290. (Required, Previous).

EDU-390L Critical Service Learning III Lab - Credits

Critical Service Learning III Lab

Take EDU-390. (Required, Concurrent).

EDU-400 Mission/History of Catholic Schools 1- Credits

Overview of the rich history, culture and identity of Catholic Schools. These philosophical, theological and historical ideals are purposefully focused to stimulate and provide reflective thought about the purpose of Catholic Education and an understanding of what it means to be a Catholic educator in the 21st Century.

EDU-419 Best Practices for Teaching 3- Credits

This course will develop the ability to apply skills and competencies in the P-12 classroom while creating a safe and supportive learning environment that emphasizes high expectations for all students, to maximize student learning. Students will learn to plan high impact instruction that will include the following topics: cognitive science, differentiation, student-centered instruction, growth mindset, deep and probing questions, concrete with abstract, non-linguistic representation, interleaving, distributed practice, and high quality feedback.

Take EDU-307. (Required, Previous).

EDU-419L Best Practices for Teaching Lab - Credits

Best Practices for Teaching Lab

Take EDU-419. (Required, Concurrent).

EDU-444 Integrated Teaching 3- Credits

This course focuses on teaching how to develop units of study for the elementary classroom by integrating subject matter and skills from math, language arts, science, and social studies, as well as art, music, and physical education. Activities are designed to encourage creativity, decisionmaking, problem-solving, and collaboration. Topics covered include integrated teaching and learning, elements of a brain-compatible classroom, service learning, consumer education and establishing a mini-economy, prejudice and discrimination, geography, global education, educating for the future, values education, education for underrepresented populations, and long range planning. Some assignments involve working with school personnel in a practicum setting.

Take SCI-301. (Required, Previous).

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EDU-444L Integrated Teaching Lab - Credits

Integrated Teaching Lab

Take EDU-444. (Required, Concurrent).

EDU-446 Creating Positive Classroom Environments 3- Credits

This course includes organization and management of group and individual activities for effective learning in classrooms; maintaining a pleasant, healthy, and functional environment; understanding and guiding behavior problems; and fostering home-school cooperation. Some assignments involve working with school personnel in a practicum setting.

Take EDU-347. (Required, Previous).

EDU-446L Creating Positive Clsm Enviro. - Credits

EDU-446 lab.

Take EDU-446. (Required, Concurrent).

EDU-447 Assessment for Learning 3- Credits

This course is designed to cover all facets of assessment for learning including: designing both formative and summative assessment, supporting, verifying and documenting learning through assessment, and creating multiples modes and opportunities to demonstrate student learning. Other topics include the examination of data to understand learner progress, appropriate use of data to guide instruction, employment of technology to support assessment practice, minimizing sources of assessment bias, differentiation based on assessment results, and understanding accommodations.

Take EDU-255. (Required, Previous). | Take EDU-390. (Required, Previous). | Take EDU-419. (Required, Previous).

EDU-447L Assessment for Learning Lab - Credits

Assessment for Learning Lab

Take EDU-447. (Required, Concurrent).

EDU-469 Student Teaching: Exceptional Needs, Middle School 6- Credits

Full-time student teaching for elementary candidates adding an exceptional needs minor at the middle school level. Student teaching fee required. Graded S/U.

EDU-473 Clinical Internship (teaching Certification) 9- Credits

This clinical internship, also referred to as student teaching, is a semester experience of pre-service clinical practice in P–12 schools for candidates preparing to teach in secondary or all-grade licensure settings. Areas of the pre-service experience include all areas of classroom instruction, assessment, management and other classroom related skills under the supervision of a clinical intern supervisor and the direction of a University supervisor. Internship fee required. Graded S/U.

Take EDU-491. (Required, Concurrent).

EDU-474 Clinical Internship (non-Teaching Certification) 9- Credits

This clinical internship is a semester experience of pre-service clinical practice that includes educational practices related to professions including those in non-school settings under the supervision of a clinical

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intern supervisor and the direction of a University supervisor. This Internship does NOT fulfill teacher licensure requirements. Internship fee required. Graded S/U.

Take EDU-491. (Required, Concurrent).

EDU-480 Special Topics in Education 3- Credits

Selected topics approved by the Educator's College. See course section comments for description.

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EDU-490 Senior Seminar, Critical Service Learning Capstone, Peace and Justice 3- Credits

Future educators become leaders and activists in this capstone course. Students will work with local community leaders to identify a specific need, plan and implement a project with a direct impact on the youth of the Greater Indianapolis Area (community/clinically based). The course integrates the general education theme and readings. Attendance at convocations is required. This course is taken the semester prior to student teaching.

Take EDU-390. (Required, Previous).

EDU-490L Senior Seminar Lab - Credits

Senior Seminar Lab

Take EDU-490. (Required, Concurrent).

EDU-491 Clinical Internship Senior Seminar 3- Credits

The Clinical Internship Seminar is a required component of the Professional Internship Semester experience and is taken concurrent with the clinical internship experience. It is designed to provide an opportunity to synthesize the internship experience and move the Intern towards the world of education at a professional level. This seminar provides the opportunity to link the theory and pedagogical course work to the work in the professional setting. The intern will provide updates and sections of the candidate work sample portfolio throughout the seminar for review and assessment. This seminar offers an opportunity for the Intern to process the experiences of the educational environment and the preparation of the required candidate work sample while also receiving valuable and practical connections of prior coursework to the actual professional experience. The course integrates the general education theme and readings. Attendance at convocations is required.

Take EDU-473 or EDU-474. (Required, Concurrent).

EDU-499 Independent Study 1-6 Credits

Guided readings and research.

EDU-504 Mindfulness for Educators 1-3 Credits

This interactive course introduces the field of mindfulness, its concepts, and practices. This course examines techniques that will benefit the development of a personal mindfulness practice to promote physical, mental, and emotional well-being that future educators can implement in educational settings. The class will begin with developing a beginner practice to reduce stress and anxiety, lessening the feeling of being overwhelmed, and specific techniques to work through difficult thoughts and emotions. The course will also include readings, discussion, and research on the power of focused attention, developing compassion, and acceptance for self and others.

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EDU-505 Child Development and Observation 3- Credits

This course involves foundational coursework and observation in a school setting. This course examines children's and adolescents' physical, cognitive, language and literacy, social, emotional, and moral development. Self-concept, identity and motivation, and exceptionality areas also addressed. Themes of diversity and working with parents are also woven throughout this course. The observation portion of the course emphasizes ways of observing, recording, and analyzing children's behavior and development in relation to planning and implementing developmentally appropriate curriculum.

EDU-510 Child Development 2- Credits

This course examines children's physical, cognitive, language and literacy, social, emotional, and moral development from birth through age eight. Children's self-concept, identity and motivation, and exceptionality are also addressed. Working with parents and issues of diversity are also woven into the course.

EDU-513 Study of Young Child Through Observing And Recording 3- Credits

This course emphasizes ways of observing, recording, and analyzing children's behavior and development in relation to planning and implementing developmentally appropriate curriculum in classrooms.

EDU-514 Second Language Learning 2- Credits

This course introduces the process and stages of second language acquisition, student capabilities at each stage, and the role of culture and acculturation in language acquisition. Teaching strategies and lesson and assessment modification are emphasized.

EDU-515 Principles & Problems of Ec and Mc Education 2- Credits

This foundation course includes the following themes: politics of education, critical historical events, modern philosophical influences, schools as organizations, standards for teaching, educational equity, school reform, early and middle childhood and adolescent approaches to curriculum and instruction, and classroom management.

EDU-516 Family & Teacher in Diverse/Inclusive Settings 2- Credits

This course examines critical research, collaborative community partnerships, conflict management, child guidance, and home/school partnerships.

EDU-518 English Learners and Diversity in Inclusive Classroom 3- Credits

This course introduces the process and stages of second language acquisition, and student capabilities at each stage. The roles of culture and acculturation in language acquisition and classroom performance are a catalyst to the broader diversity in the schools discussion. Teaching strategies and lesson and assessment modification are emphasized. Cross-listed as EDU-318.

EDU-519 Best Practices in Teaching & Learning 3- Credits

This is a foundational course which strengthens the candidate's background in curriculum and instruction. Curriculum development, using state and national standards, teaching strategies, student

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engagement, materials and resources, and assessing students are topics that are included. Candidates keep a reflective journal to link teaching strategies with internship practices.

EDU-520 Best Practices in Language Arts and Expressive Arts 3- Credits

This course integrates methods of teaching in content areas. Curriculum development, teaching strategies, materials and resources, and evaluating students are included. Students apply theories as they work with children in school settings.

EDU-521 Best Practices in Language Arts and Social Studies 3- Credits

This course integrates methods of teaching in content areas. Topics include classroom diagnosis and techniques for assisting with reading problems, use of diagnostic instruments and methods and materials for remediation, use of reading in teaching social studies concepts, emphasizing the moral development of children and multicultural level appropriate literature.

EDU-522 Best Practices in Science and Mathematics 3- Credits

This course strengthens the candidates background in curriculum and instruction related to elementary and middle childhood and adolescent levels of mathematics and science, using manipulative, discovery learning, and problem solving. One Family Mathematics Night or Family Science Night is required.

EDU-523 Exceptional Needs I 1- Credits

This course is designed for M.A.T. interns only and provides an overview of the range of abilities found in children who are educated in general education classrooms. Appropriate observation skills and strategies for adapting the curriculum are addressed. Information relating to the legal requirements regarding children with disabilities is included. Observation of meetings is required.

EDU-524 Technology 1- Credits

This course is an introduction to the use of technology in elementary and middle childhood and adolescent classrooms. Students learn appropriate technology integration techniques. Lab activities include computer system operation, software evaluation, and use of teacher utilities.

EDU-525 Children With Exceptional Needs II 1- Credits

This course is designed to provide a continuation of the content in EDU-523. More in-depth information is included relating to specific disabilities and how to appropriately include these children within general education classrooms. Collaboration strategies are considered. Observation of meetings is required.

EDU-526 Best Practices in Elementary Math & Science 3- Credits

This course is designed to strengthen, broaden, integrate, and enrich teaching and learning in of math and science in early childhood and elementary settings. The purpose of this course is to explore, create and utilize a variety of developmentally appropriate instructional strategies to enhance computational and science inquiry focusing on problem solving, and experimental and discovery learning.

EDU-527 Best Practices in Teaching a Foreign Language 3- Credits

This course strengthens the candidates background in curriculum and instruction related to teaching a foreign language K-12. This course will focus on creative techniques to address and teach the national

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and state foreign language standards related to communication, cultures, comparisons, connections, and communities. In 26 addition candidates learn through teaching experiences what constitutes effective foreign language instruction and what constitutes an exemplary foreign language teacher and program.

EDU-528 Best Practices in Teaching English Learners 3- Credits

This course focuses on best practices in teaching English to K-12 English language learners. It provides a foundation for teaching English Learners (ELs) by focusing on developing equitable programming and curriculum that is aligned to state EL standards and K12 content standards. Emphasis is placed on the role of the EL teacher in the school community and how to become an instructional leader in best practices for English learners.

EDU-529 Best Practices in Elementary Lang Arts And Social Studies 3- Credits

This course integrates methods of teaching in Language Arts and Social Studies. Topics include classroom diagnosis and techniques for assisting with reading problems, use of diagnostic instruments and methods and materials for remediation, use of reading in teaching social studies concepts, emphasizing the moral development of children and multicultural level appropriate literature in early childhood and elementary classrooms.

EDU-530 Assessment of Learning I 2- Credits

This course includes an overview of assessment practices in schools, focusing on traditional testing, standardized testing and alternative forms of assessment and evaluation. Modifications for special populations are also addressed.

EDU-531 Assessment of Learning II 2- Credits

This course addresses using test results and class assessments to guide instruction in the K-12 classroom. Growth model statistics and the process of gathering and interpreting test data are addressed in this course.

EDU-532 The Inclusive Classroom 3- Credits

This course focuses on the K-12 level and is designed for students who are not obtaining the exceptional needs license. The course provides an overview of the range of abilities found in children who are educated in general education classrooms. Appropriate observation skills and strategies for adapting the curriculum will be addressed. Information relating to the legal requirements regarding children with disabilities is included. Observation in actual classrooms is required. The collaborative role of the general education teacher will be considered. In-depth reading and writing and experience in school settings are expected.

EDU-533 Assessment of Children W/ Exceptional Needs 3- Credits

This course examines the causes and types of learning problems found in children with exceptional needs. Students learn how the teacher can assess children with learning problems. Formal psychological evaluation tools are examined and the value of the information to the classroom teacher is discussed. In-depth reading and writing and experience in school settings are expected.

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EDU-534 Assessment in Early Childhood Classrooms 3- Credits

This course provides an overview of assessment practices in P-3 classrooms, focusing on traditional testing, formative and summative assessment and modifications for special populations. Students develop an understanding of using test results and creating developmentally appropriate assessments to guide instruction in the P-3 classrooms. The growth model and the process of gathering, monitoring, and interpreting test data are addressed in this course.

EDU-535 Introduction to Children W/ Exceptional Needs 3- Credits

This course is an introduction to the variety of exceptional conditions found in children. Definitions, identification, prevalence, characteristics, and educational needs of the various types of exceptional children are presented. Information on the roles of the local school agency, the state, and the federal government as they pertain to the education of exceptional children is also included. In-depth reading and writing and experience in school settings are expected.

EDU-536 Assessment of English Learners 3- Credits

Participants learn how to design and select assessments that are appropriate for K-12 English Learners, how to administer assessments with fidelity, and how to interpret assessment results. Students develop a richer understanding of how assessments can drive classroom instruction, as well as an understanding of the importance of a culturally and linguistically responsive approach to Response to Intervention (RTI). Finally, students learn how to distinguish between second language acquisition issues in learning and the need for special education services.

EDU-537 BP for Inclusive Instruc & Assessment 3- Credits

This course will review historical foundations, current law, and developmental theories in English Learning, Special Education, and neurodiversity. A particular focus will be placed on evidence-based pedagogy: including instructional and assessment methods designed to meet the needs of English Learners and students with exceptionalities in inclusive classroom environments. Other topics include critical pedagogy, culturally responsive, relevant, sustaining practices, content and language instruction integration, and differentiation.

EDU-538 Exceptional Needs: Curriculum and Methods 3- Credits

This course assists candidates in developing and adapting the curriculum to meet the needs of children with exceptional needs. Specific instructional strategies and materials are reviewed. In-depth reading and writing and experience in school settings are expected

EDU-539 Social and Emotional Learn in the Class 3- Credits

This course focuses on the foundational knowledge of social-emotional learning (SEL) and the implementation of evidence-based SEL strategies in P-12 classroom settings. Students will examine and practice SEL competencies that will enhance P-12 students' social-emotional development and academic achievement in the classroom.

EDU-540 Mentoring the Beginning Teacher 3- Credits

This course is offered to seasoned teachers committed to the growth and development of beginning teachers, as well as to their own personal growth and development. Topics considered in this course

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include: adult learning theory and principles, standards-based teaching practices, portfolio production and review, beginning teacher assessment, and characteristics of “teacher as reflective practitioner.” Credits for this course may be applied toward license renewal through professional growth plans.

EDU-541 Linguistics for Teacher of English 3- Credits

This course provides students with foundational knowledge, classroom structures, and research-based strategies to support English learners' language development. Students will examine general and applied linguistics. Students will study English language structures and development, including language acquisition and English phonology, orthography, morphology, and syntax and their implications on teaching English learners.

EDU-543 Techniques for Reading and Literacy Instruction 3- Credits

This course focuses on scientifically-based reading research and methods for teaching reading. The course addresses differentiated, direct instruction, and multi-sensory reading strategies to support literacy, comprehension and vocabulary development.

EDU-545 Digital Literacy & Media Education 1-3 Credits

In this course, students will explore the influence mass media, social media, and digital spaces have on our lives. This course will examine evidence-based practices, research, and theoretical frameworks to support digital literacy in P-12 classrooms. Students will explore tools and techniques to support teaching and learning in P-12 classrooms. This course will address designing lesson plans for teaching P-12 students how to create, analyze, evaluate, and engage with media and in digital spaces responsibly. The number of credits will be determined by the department at the time of offering.

EDU-549 Exceptional Needs: Collaborative Consultation 3- Credits

See SPD-549.

EDU-560 Internship 1-3 Credits

Each educator preparation program requires internship hours to earn licensure. Candidates should consult their handbooks for each program's required hours. A maximum of nine credits may be earned. Graded S/U.

EDU-568 Practicum: Exceptional Needs 3- Credits

This practicum combines a weekly group meeting with a 40-hour field experience. Students observe, interact, and instruct children with exceptional needs. The student is responsible for individual and group lessons and for relating classroom knowledge with actual practice. Students transfer information from an evaluation report to an individualized education plan (IEP). In-depth reading and writing and experience in school settings are expected. Graded S/U.

EDU-580 Special Topics 1-3 Credits

Selected topics approved by the Educator's College. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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EDU-590 Classroom Research I 2- Credits

This first part of a two-course sequence teaches the fundamentals of classroom-based research.

EDU-591 Classroom Research II 3- Credits

This second part of a two-course sequence teaches the fundamentals of classroom-based research, culminating with a project paper and presentation required to complete the program. (

EDU-592 Action Research in Education 3- Credits

This course provides instruction in the design and implementation of action research in educational settings to positively impact teaching and learning. This course teaches the fundamentals of action research, culminating with a capstone project/paper required to complete the program.

EDU-599 Independent Study 1-3 Credits

This course is designed to provide the student with an opportunity to gain or enhance their knowledge and to explore an area of interest education.

EGR-101 Introduction to Engineering 3- Credits

An overview of the engineering profession and methodologies of engineering design. Students develop skills using computer aided design and simulation software for engineering systems. The course also introduces the students to standard computer application software and university network and software resources. 3 Lecture hours per week.

EGR-151 Programming for Engineers 3- Credits

This course will introduce the fundamentals of programming required for Engineering applications and data analysis using MATLAB and C/C++. The material will cover basic concepts such as arrays and vectors, strings, 'for' and 'while' loops, conditional 'if-else' statements, Boolean logic, and writing modular user-defined functions. The emphasis will be on Engineering applications, which will involve solving systems of equations, analyzing time-series data, manipulating images, and advanced visualization and plotting of data.

Take MAT-230. (Recommended, Previous or concurrent).

EGR-155 Introduction to Computer Aided Design 3- Credits

This is a first course in engineering graphics. It teaches students to use modern CAD software to produce two dimensional drawings for manufacturing applications. It also covers coordinating systems, proper dimensioning, use of sectioning and projections for visualization, symbol libraries, file management, and collaborative techniques. Students will also be introduced to 3-D printing methods.

Take EGR-101. (Required, Previous).

EGR-195 Introduction to the Engineering Profession 1- Credits

Complement the orientation to both Marian University and IUPUI, assist in the development of skills and knowledge to support all academic studies, provide an introduction to the engineering profession and curriculum.

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EGR-221 Engineering Mechanics: Statics 3- Credits

Fundamental concepts of mechanics, force systems and couples, free body diagrams, and equilibrium of particles and rigid bodies. Distributed forces; centroids and centers of gravity of lines, areas, and volumes. Second moment of area, volumes, and masses. Principal axes and principal moments of inertia. Friction and the laws of dry friction. Application to structures and machine elements, such as bars, beams, trusses, and friction devices.

EGR-222 Dynamics 3- Credits

Kinematics of particles in rectilinear and curvilinear motion. Kinetics of particles, Newton's second law, energy, and momentum methods. Systems of particles, kinematics and plane motion of rigid bodies, forces and accelerations, energy and momentum methods. Kinetics, equations of motions, energy and momentum methods for rigid bodies in three-dimensional motion. Application to projectiles, gyroscopes, machine elements, and other engineering systems.

Take EGR-221. (Required, Previous).

EGR-226 Mechanics of Materials 3- Credits

Understanding the basic knowledge of the behavior of various elastic members under different types of loading, prepare students to perform basic experimental analysis relating to the theoretical part of the course in a separate lab.

EGR-230 Engineering Materials 3- Credits

Introduction to the structure and properties of engineering materials, including metals, alloys, ceramics, plastics, and composites. Characteristics and processing affecting behavior of materials in service.

Take EGR-221. (Required, Previous).

EGR-241 Linear Circuit Analysis 3- Credits

Topics include circuit variables and circuit elements, basic laws, basic electric circuit analysis techniques, Thevenin's, Norton's, maximum power theorems, operational amplifiers, Transient and steady-state response of resistor, inductor and capacitor circuits, AC power analysis. Students will get experience with circuits simulation software for circuit analysis. The laboratory component associated with this course provides hands-on experience of electronic components and instruments, designing and analyzing circuits.

Take PHY-202. (Required, Previous).

EGR-241L Linear Circuit Analysis Lab - Credits

EGR-241 lab.

Take EGR-241. (Required, Concurrent).

EGR-261 Thermodynamics 3- Credits

First and second laws, entropy, reversible and irreversible processes, properties of pure substances. Application to engineering problems.

Take PHY-201. (Required, Previous).

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EGR-301 Global Engineering 3- Credits

Fundamental skills and cultural responsiveness in engineering and technology on a multidisciplinary team in a global context. Focus is given to effective communication (across different cultures and either synchronous or asynchronous), clear understanding of engineering standards, knowledge of project development process, commitment to ethics, professionalism, interdisciplinary team-work and equality, and appreciation for global interconnectedness of various practices. This course satisfies the writing and speaking intensive requirement in the student's major for all engineering majors.

EGR-317 Engineering Economics 3- Credits

Understanding of basic accounting and financial reports; develop an awareness of cash flows and time value of money; select among several viable alternative projects; introduce product and project costing and rates of return; and appreciation of uncertainty in models and measures of decision making.

EGR-326 Engineering Statistics 3- Credits

This course gives an introduction to probability and statistics, with emphasis on engineering applications. Course topics include events and their probability, the total probability and Bayes' theorems, discrete and continuous random variables and vectors, uncertainty propagation and conditional analysis. Second-moment representation of uncertainty, random sampling, estimation of distribution parameters (method of moments, maximum likelihood, Bayesian estimation), and simple and multiple linear regression. Concepts illustrated with examples from various areas of engineering and everyday life.

Take MAT-310. (Required, Previous).

EGR-365 Fluid Mechanics 3- Credits

Topics include physical properties of fluids, hydrostatics, conservation laws using control volume analysis and using differential analysis, Bernoulli's equation, potential flows, simple viscous flows (solved with Navier-Stokes equations), dimensional analysis, pipe flows, boundary layers. Introduction to compressible flow. This course also includes a laboratory component that examines modeling and the analysis of fluid principles.

Take EGR-222. (Required, Previous). | Take EGR-261. (Required, Previous). | Take MAT-315. (Required, Previous).

EGR-451 Control Systems 3- Credits

This course covers the analysis and design of linear systems in both the Laplace domain and time domain. Laplace transforms and transfer functions are used to study performance specifications, root locus, and frequency response methods. State space topics include stability, controllability, observability, state feedback, and observers. This course also includes a laboratory component that examines modeling and control of representative dynamic processes.

Take MEN-320. (Required, Previous).

EGR-460 Engineering Internship 1-3 Credits

The internship in engineering allows students who have completed an off-campus internship in a field related to their engineering major to earn credit for their work experience. Students must present a written and oral summation of their experience. A student may earn 1 credit hour for every 60 hours of

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work experience they complete during a semester. This course may be taken multiple times for an accumulation of 3 hours total.

EGR-480 Special Topics in Engineering 3- Credits

Special courses in engineering in response to student needs. Current and previous special topic course descriptions can be viewed on the Registrar's website - Registration Resources page.

EGR-490 Senior Design 3- Credits

The course requires students to work in small design teams to solve a significant engineering problem. Students develop, design, and implement a solution to the engineering problem in conjunction with a faculty advisor. The course reinforces principles of the engineering design process and serves as a capstone for engineering knowledge obtained in the engineering curriculum. The consideration of the ethical and social implications of technology and the basic concepts of business are also aspects of the course. Each student design team is expected to present information related to their project in both written and oral formats. Preliminary paper design is followed by implementation in the lab. It is expected that a complete or partially working system will be demonstrated at the end of the course. Take 94 credits. (Required, Previous).

EGR-498 Engineering Research Projects 1-3 Credits

This course is designed for junior or senior students to design and implement research projects or to investigate topical issues in the field of engineering. Take 62 credits. (Required, Previous).

ENG-099 Basic English 3- Credits

This course prepares students to meet basic expectations of academic English, especially English language learners and first-year students who desire additional instruction before enrolling in ENG 101. Individualized practice is provided in usage, grammar(s), vocabulary, sentence construction, and paragraph writing. A grade of C or better is required. Developmental courses like ENG 099 count toward the credits required for degree completion. They may be repeated for credit with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. ENG 099 does not satisfy any General Education requirement.

ENG-101 English Composition 4- Credits

Introduction to college-level writing and preparation for ENG-112 available to students by self-placement. Students develop and practice content development, revising, and editing strategies through multiple drafting assignments. Students can expect a high level of instructor feedback through written responses and/or conferences. This course includes a lab hour designed to support the work of ENG-101 writers by providing individualized instruction tailored to the writer's specific needs. While the emphasis will differ from writer to writer, upon completing this course, students will know how to: 1) strengthen and demonstrate critical thinking and reading skills necessary to succeed at college-level writing and 2) develop structures that allow for the complex treatment of ideas. A final grade of C- or higher is recommended in this course before enrolling in ENG 112. Three lecture hours and one writing lab hour per week. This course does not satisfy any General Education requirement. Take ENG-L01. (Required, Concurrent).

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ENG-105 Techniques in Editing 1- Credits

A study of sentences and the practice of strategies to improve clarity, concision, coherence, and emphasis of writing. Final project requires a self-study of a collection of the students' writing.

ENG-109 Foundational Editorial Experience 1- Credits

Students contribute to student publications as writers, editors, and designers as contracted with the faculty advisor. May be repeated for up to 3 hours.

ENG-112 Writing and Community 3- Credits

Students use writing to think critically and creatively about human experience as represented in literary, scholarly, and culturally relevant texts, as well as in their own experiences. Instruction emphasizes drafting, reading, and research strategies expected of college-level writers. Multiple assignments require revision processes to refine thinking and expression, to navigate genre expectations, and to reflect the habits and conventions of discourse communities, academic and others. Final portfolio required. Students may elect to complete ENG 101 in preparation for this course. This course partially satisfies general education curriculum standards for foundational intellectual skills in written communication.

ENG-113 Creative Writing in Action 1- Credits

An investigation of the many ways creative writing can move beyond the page into our daily places and lives. Students in this course will engage practically and meaningfully with creative writing in its multiple forms to actively shape Marian University's campus creative writing culture.

ENG-123 Literary Perspectives 3- Credits

Literary Perspectives explores three essential questions: what is literature? How is it relevant to building culture? And how is it relevant to you building your life? We will investigate many different perspectives to shed important light on these and other questions. "Perspectives" means we look at literature and writing from historical, cultural, social, economic, aesthetic, professional, and personal angles. Coming at literature and writing from various "perspectives" enables you to enhance unique skills in critical and creative thinking, gain knowledge of narrative as culture-builder, and learn about opportunities and careers through English studies.

ENG-180 Special Topics in Lit and Writing 1-3 Credits

Study of selected literary works involving a particular topic (e.g., African American literature, literature of the East, science fiction, women novelists) or treating specific themes (e.g., studies of the double, of initiation, or parent-child relationships), or a study of selected issues in writing. The chosen topic or themes are announced at the time of registration and vary from one semester to the next to allow students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-201 Responding to Student Writing 1- Credits

Study and practice of current composition and literacy theory as it relates to responding to student writing in traditional and digital teaching and learning environments across the curriculum.

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Take ENG-112. (Required, Previous).

ENG-203 Writing Studies 3- Credits

Surveys theories, research, and knowledge that inform answers to the question, What does it mean to write? Students examine assumptions they have about language, written expression, and writing ability. Students apply threshold concepts in writing studies in a final project.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-204 Introduction to Creative Genres 3- Credits

Basic principles and practice in imaginative writing; development of criteria for judging artistic compositions.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-208 Peer Tutoring of Writing and Collaborative Learning 1- Credits

This course is an entrance into the broader discourse of evidence-based writing center and peer learning theories and practices. Successful completion of this course will enable peer tutors of writing to engage in collaborative learning through a range of deliberate negotiations across critical, creative and cultural perspectives. Required for all Marian University Writing Center peer tutors, but it is also open to students regardless of employment status with the Marian University Writing Center.

Take ENG-112 or ENG-115. (Required, Previous or concurrent).

ENG-209 Writing Workshops in the Secondary Classroom 1- Credits

This course introduces students to the philosophical and practical aspects of writing workshops in secondary classrooms. This course provides an understanding of the benefits of a workshop-based approach, as well as the tools to design successful workshops. Required for English majors in the teaching track and also open to those seeking licensure in any secondary field involving writing, such as history.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-210 Public Action Writing 3- Credits

This course explores the ecologies of writing and how these practices are used to shape understandings of community issues. This service engagement course engages with public literacy practices to explore their role in advocating community perspectives, documenting lived experience, and producing social texts. Students will research contemporary and local uses of public writing, engage in written literacy practices that shape public discourse, and explore public applications of writing. Final portfolio including a collaborative community literacy project required. This course will meet regularly off-campus and require access to public or private transportation.

Take ENG-112 or ENG-115. (Required, Previous or concurrent).

ENG-213 Literature (the Short Story) 3- Credits

This course provides instruction in analyzing, discussing, and writing about modern short stories. The course explores styles and themes of contemporary short fiction written cultural perspectives, including American, Hispanic, African, Middle Eastern, Asian, and European. This course fulfills the cross cultural general education requirement. This course is only offered in the MAP program.

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ENG-215 American Literature II 3- Credits

Historical survey of American literature from 1865 to the present. This course is only offered at the Ancilla Campus.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-216 Survey of American Literature 3- Credits

This course's central questions explore what and/or who is "American" as well as how earlier voices intersect with current events. Class conversations will interweave past and present as students survey American literature from its Indigenous origins to its dynamic contemporary expressions. Along the way, we will study written, spoken, and material texts, thoughtfully considering how each voice shapes our understanding of American identity and literary history. Reading responses, presentations, papers, and exams will determine final grades.

Take ENG-112. (Required, Previous).

ENG-223 Historical Survey of British Literature II 3- Credits

Historical survey of British literature in the nineteenth and twentieth centuries. This course is only offered at the Ancilla Campus.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-224 Survey of British Literature 3- Credits

British Literature explores 9 great themes in poetry, drama, and fiction across twelve centuries of British literary traditions from Medieval to Modern and Postcolonial times. The course focuses on English, Irish, Scottish, Welsh, and British Caribbean literature. Great themes include Fate, Hero, Faith, Free Will, Survival, Beauty, Gender, Solitude, and Social Justice. Course promotes project-based learning to connect British literature to students' worlds.

Take ENG-112. (Required, Previous).

ENG-239 Professional Writing 3- Credits

Theory and practice of writing common professional forms such as sales materials, abstracts, memos, application letters, and resumés. Emphasis is placed on writing proposals and reports, and on understanding, in general, the persuasive element in most professional writing. Cross-listed as COM-239.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-245 Page to Stage: Studies in Dramatic Literature and Performance 3- Credits

See THE-245.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-252 Grant and Proposal Writing 3- Credits

This course introduces the mechanics of grant and proposal writing as well as the social and political aspects of funding opportunities. Additionally, students will develop skills in identifying sources of funding, incorporating supporting research within application, writing to specific audience interests, and developing assessment and outcome models for proposals.

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Take ENG-112. (Required, Previous).

ENG-253 Research Methods & Criticism 3- Credits

Hands-on research experiences and theoretical studies drive this course, which begins by inviting students to consider key literary and archival theories (including critical race and gender theory as well as postcolonialism) and then transitions to practical research application. By the end of this course, students will be familiar with navigating and requesting Marian library resources while also ethically entering, analyzing, and questioning local, regional, and national archives.

Take ENG-112. (Required, Previous).

ENG-280 Special Topics in Literature and Writing 3- Credits

Study of selected literary works involving a particular topic (e.g., African-American literature, literature of the East, science fiction, women novelists) or treating specific themes (e.g., studies of the double, of initiation, or parent-child relationships), or a study of selected issues in writing. The chosen topic or themes are announced at the time of registration and vary from one semester to the next to allow students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-302 Creative Nonfiction Workshop 3- Credits

Study and practice of the essay genre from Montaigne to the present, paying special attention to evolving forms of the essay and the rhetorical and aesthetic choices that shape meaning. Intensive workshop experience.

Take ENG-112. (Required, Previous).

ENG-309 Advanced Editorial Experience 1- Credits

Designed for leaders of student publications, course topics include articulating the mission of a publication, reviewing content, editing submissions, and publishing the final product. May be repeated for up to 6 credit hours.

Take ENG-109. (Required, Previous).

ENG-315 Literature of the American Renaissance 3- Credits

A critical study of the literature written in the United States from about 1830 to about 1860, selected from the work of Edgar Allan Poe, Ralph Waldo Emerson, Henry David Thoreau, Margaret Fuller, Nathaniel Hawthorne, Herman Melville, Frederick Douglass, Walt Whitman, Emily Dickinson, Louisa May Alcott, and others. Explores the influence of transcendentalism and factors leading to the Civil War; examines the treatment in literature of such social issues as slavery and women's suffrage.

Take ENG-112. (Required, Previous).

ENG-316 American Realism 3- Credits

A critical study of the literature written in the United States between 1865 and the turn of the century, including the work of Mark Twain, Edith Wharton, Henry James, Willa Cather, Theodore Dreiser, Stephen Crane, and others. Explores the increasing complexities of American culture in the post-Civil War period as reflected in the literature.

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Take ENG-112. (Required, Previous).

ENG-317 American Modernism 3- Credits

A critical study of the literature written in the United States during the first half of the 20th century, including the work of T.S. Eliot, William Faulkner, Gertrude Stein, Ezra Pound, Ernest Hemingway, Richard Wright, F. Scott Fitzgerald, Langston Hughes, and others. Explores the development of the Modernist aesthetic and examines the interplay between literature and psychoanalysis, Fascism, and other twentieth-century cultural and political developments.

Take ENG-112. (Required, Previous).

ENG-319 Mythology 3- Credits

Study of principal myths and legends of the ancient world, with consideration of the nature of myth, relation of myth to religion and ritual, and the presence of mythic structures in contemporary culture.

Take ENG-112. (Required, Previous).

ENG-320 Representations of Catholicism 3- Credits

A critical study of literature written by Catholic writers, engaging issues of Catholic theology, and/or depicting Catholic characters and culture. The course provides an informed inquiry into the intellectual, social, and aesthetic complexities of the Catholic faith as represented in literature. The specific topic of the course changes with each offering, e.g., Catholicism in the United States, spiritual autobiography, etc.

Take ENG-112. (Required, Previous).

ENG-321 Narrative Theory & Methods of Community 3- Credits

This community engaged learning course examines the use of narrative theory and story-based strategies as methods for qualitative research and community development. Students will gain first-hand experience in the use of English studies to conduct research, address social concerns, and develop equitable responses to injustice. This class prepares students for careers with social organizations that utilize asset-based, holistic community engagement approaches to alleviate persistent and complex issues.

Take ENG-112. (Required, Previous).

ENG-322 Print and Digital Editing 3- Credits

Students regularly participate in editing workshops in order to build a repertoire of strategies for evaluating sentence-level choices in wording, punctuation, and grammar. Course content includes overview of developmental, line, and copy editing sequence and processes in print and digital publishing and emphasizes ethical decision-making.

Take ENG-112. (Required, Previous).

ENG-323 Literature and Medicine 3- Credits

Literature and Medicine is a critical and reflective examination of representations of illness, healthcare, and the human body in literature across cultures and historical periods. The course is driven by the recognition that illness and medical care are experienced, related, and addressed as narratives. The

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course seeks to build narrative competence, as provided through literary critical theory, as a means of developing an ethical and empathic view of the human experience of illness and healthcare.

Take ENG-112. (Required, Previous).

ENG-324 Linguistic Prin of the English Language 3- Credits

A study of contemporary linguistic theories on the nature and social aspects of language, including its components, acquisition, and processing. Includes historical and contemporary survey of English language and grammar.

Take ENG-112. (Required, Previous).

ENG-326 Writing in the Sciences 3- Credits

Students learn the conventions of writing science related material for general and specific audiences. This course combines multi-modal and text-based practices, so that students practice using visuals and graphics effectively with narrative and analytical writing to communicate the stories of scientific achievement and possibility within the scholarly and public realm.

Take ENG-112. (Required, Previous).

ENG-330 Shakespeare 3- Credits

Study of representative Shakespearean comedies, tragedies, and histories; consideration of historical and literary background. Cross-listed as THE-335.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-340 World Literature in Translation 3- Credits

A critical study of the literature of a selected culture other than North American or European. National and/or ethnic focus of the course changes with each offering. This course partially satisfies the general education requirement in the cultural awareness category.

Take ENG-112. (Required, Previous).

ENG-347 Young Adult Literature 3- Credits

Using the Indiana Reading List 6-12, this course is designed both for those who want to teach adolescent literature and those who are interested in writing it. An on-going topic will be contrasts between adolescent literature and adult literature about adolescents. Understanding genres is vital both in the teaching and writing of adolescent literature.

Take ENG-112. (Required, Previous).

ENG-354 British Romanticism 3- Credits

This course explores the origins and developments of the major intellectual movement of British Romanticism. The course focuses on a complex group of writers, artists, and composers who flourished from 1780 to 1830, extending eighteenth-century Enlightenment thought into a counter-cultural movement during one of the most revolutionary and socially contentious periods in English history.

Take ENG-112. (Required, Previous).

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ENG-360 Internship in English 1-6 Credits

An approved internship or work experience related to professional writing. Grade point of 3.5 in English and approval of department are required. Course may be repeated once. A maximum of three credit hours may apply toward the major. Graded S/U.

Take 62 credits. (Required, Previous).

ENG-366 American Indian Film & Literature 3- Credits

Students explore the rich storytelling tradition preserved in American Indian oral, visual, and material literatures from ancient times to the present day. While becoming more familiar with Native American and Indigenous Studies, students encounter a range of Native scholarship and literary works, ultimately expanding their definition of "literature" and redefining their understanding of Native productions today.

Take ENG-112. (Required, Previous).

ENG-367 New Media Writing 3- Credits

See COM-367.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-368 African American Film & Literature 3- Credits

Students consider a dynamic range of media productions by Black filmmakers, novelists, folklorists, playwrights, autobiographers, activists, and poets. From eighteenth-century Freedom Narratives to twenty-first century #BLM hashtags, students will explore how, where, and why Black innovators and creators have both persevered for social justice and deeply shaped America's cultural identity.

Take ENG-112. (Required, Previous).

ENG-369 Re-Gendering the American West 3- Credits

Students unsettle the traditional story of US Western expansion and extend the American literary canon by considering diverse women's perspectives from the "frontier," an evolving boundary that once included present-day Indiana. Through autobiographies, poems, diaries, short stories, novels, and examples of secondary scholarship, students develop a critical framework to respond to Manifest Destiny and identify women's contributions to and commentary on US colonialism.

Take ENG-112. (Required, Previous).

ENG-370 Selected Topics in Creative Genres 3- Credits

This course offers extended instruction and practice in creative writing. With each offering, the focus of the course includes one of the primary literary genres- poetry, fiction, playwriting, or nonfiction.

Take ENG-204. (Required, Previous).

ENG-375 Global Cinema 3- Credits

See GLS-375.

Take ENG-112 or ENG-115. (Required, Previous). | Take GLS-101. (Required, Previous).

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ENG-380 Special Topics in Literature and Writing 3- Credits

Study of selected literary works involving a particular topic (e.g., African-American literature, literature of the East, science fiction, women novelists) or treating specific themes (e.g., studies of the double, of initiation, or parent-child relationships), or a study of selected issues in writing. The chosen topic or themes are announced at the time of registration and vary from one semester to the next to allow students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-401 Publishing and Print Culture 3- Credits

Students engage in experiential and community-engaged learning to prepare and publish retail-ready books and publications from local and regional authors. Additionally, this class explores theories of circulation and explores the ways print culture shapes relationships between knowledge and society.

Take ENG-112. (Required, Previous).

ENG-460 Internship in English 3- Credits

An approved internship or work experience related to professional writing. Grade point of 3.5 in English and approval of department are required. Course may be repeated once. A maximum of three credit hours may apply toward the major. Graded S/U.

Take 62 credits. (Required, Previous).

ENG-470 Advanced Creative Writing Workshop 3- Credits

This course offers advanced creative writing students extended instruction in creative writing and weekly peer and instructor critiques of works-in-progress. The course culminates in the submission of a complete creative writing portfolio for MFA writing programs or other professional pursuits.

Take ENG-204. (Required, Previous).

ENG-480 Special Topics in Literature and Writing 3- Credits

Study of selected literary works involving a particular topic (e.g., African-American literature, literature of the East, science fiction, women novelists) or treating specific themes (e.g., studies of the double, of initiation, or parent-child relationships), or a study of selected issues in writing. The chosen topic or themes are announced at the time of registration and vary from one semester to the next to allow students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

Take ENG-112 or ENG-115. (Required, Previous).

ENG-490 Senior Seminar 3- Credits

Departmental seminar for majors in English. Students will extend their understanding of issues critical to English studies by preparing critical and creative work for the senior portfolio. Incorporates the general education senior topic and text.

Take 94 credits. (Required, Previous). | Take ENG-250. (Required, Previous).

ENG-499 Independent Study 2-3 Credits

Guided readings and research.

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ENG-L01 English Composition Lab - Credits

This course is designed to support the work of ENG-101 writers by providing individualized instruction tailored to the writer's specific needs. The tutorial instruction is not designed for students with weak mechanical skills. While the emphasis will differ from writer to writer, upon completing this course, students will know how to: 1) strengthen and demonstrate critical thinking and reading skills necessary to succeed at college-level writing; and 2) develop structures that allow for the complex treatment of ideas. If placement testing indicates registration in ENG-L01, the student must successfully complete the lab hour with a grade of C or better in order to pass ENG-101.

Take ENG-101. (Required, Concurrent).

ENG-L20 Writing Tutorial 1- Credits

ENG-L20 is lab time providing individualized instruction tailored to a writer's specific needs at any point during undergraduate coursework. The tutorial is designed for students who want additional support in realizing targeted goals for specific writing situations. ENG lab hours (excluding L01 and L50) may be taken for up to a total of eight hours credit. S/U.

ENG-L50 Graduate Writing Tutorial 1- Credits

This course provides individualized writing instruction tailored to the student's needs at any point during graduate coursework. The tutorial is designed for graduate students who want additional support in realizing targeted goals for specific writing situations such as support in effectively completing writing-intensive graduate courses, navigating Thesis or Dissertation requirements, or publishing. ENG-L50 may be taken for up to a total of four hours credit.

ENG-L60 Doctoral Writing Lab 1- Credits

This provides individualized writing instruction tailored to the student's needs at any point during doctoral coursework. The tutorial is designed for doctoral students who want additional support in realizing targeted goals for specific writing situations such as support in effectively completing writing-intensive doctoral courses, navigating thesis or dissertation requirements, or publishing. ENG-L60 may be taken for up to a total of four hours credit.

ENV-170 Introduction to Environmental Science 3- Credits

see SCI-170.

ENV-171L Sci, Environmnt, & Soc- Ecolab Lab 1- Credits

see SCI-171L.

Take ENV-170. (Recommended, Concurrent).

ENV-172 Intro to Environmental Science 4- Credits

This course examines the biological principles underlying the use, conservation and preservation of natural resources, covering such topics as management of harvested populations, pest management, biodiversity, conservation of endangered species, climate change, human demography, nutrient cycles and pollution. This course is only offered in the MAP program.

ATTENTION: The below descriptions should only be referenced for the 2023-24 academic year. All real-time course descriptions are available in the live [University Catalog of Courses and Sections Offerings](#).

ENV-173L Sci, Environmnt, & Soc- Energy Lab 1- Credits

see SCI-173L.

Take ENV-170. (Recommended, Concurrent).

ENV-280 Special Topics in Environmental Science 1-3 Credits

Special topics as deemed necessary. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ENV-380 Special Topics in Environmental Science 1-3 Credits

Special topics as deemed necessary. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ENV-480 Special Topics in Environmental Science 1-3 Credits

Special topics as deemed necessary. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ESS-120 Biophysical Values of Activity 3- Credits

A study of exercises, preparation and supervision of exercise programs, isotonic, isometric and plyometrics programs, interval and circuit training, principles of caloric expenditure, healthful techniques of weight loss and weight gain, and methods of class presentation.

ESS-170 Fitness and Wellness 2- Credits

This course is designed to teach the student the role of physical activity and fitness in maintaining adequate health and improved quality of life. Students will also learn how to assess, develop and implement a complete lifetime fitness and wellness program and its components.

ESS-201 Fundamentals of Training Design 2- Credits

In this course, student will be exposed to a full range of scientific protocols for resistance and conditioning program design. Students will apply testing and exercise selection, exercise order, and implementation based on the current scientific literature.

Take ESS-120. (Required, Previous).

ESS-230 First Aid 2- Credits

Methods of rendering aid in case of sudden illness or accident. The student receives instruction on how to care for himself as well as others in emergency situations. Methods of maintaining optimal health are introduced. Instruction on how to perform CPR (cardio-pulmonary resuscitation) is provided. Fee required.

ESS-236 Basic Human Nutrition 3- Credits

Basic Human Nutrition - in this course, students will be exposed to all the basic aspects of human nutrition and to the relationships between nutrition, health, and disease prevention.

Take BIO-203 BIO-204 CHE-100 ESS-120 or PBH-201. (Required, Previous).

ATTENTION: The below descriptions should only be referenced for the 2023-24 academic year. All real-time course descriptions are available in the live [University Catalog of Courses and Sections Offerings](#).

ESS-245 Theory of Speed and Athletic Development 3- Credits

The study of the principles and methodologies to enhance speed and athletic performance. Emphasis on the concepts of periodization of training as it relates to preseason, competitive season, and off-season goals. Topics include anatomical and physiological foundations of speed development, evaluation and assessment protocols, exercise techniques, and safety.

Take ESS-120. (Required, Previous).

ESS-250 Group Fitness Activities 3- Credits

This course is designed to provide students with an overview of the educational concepts, techniques, program design, and leadership skills needed to teach group activities programs. The course provides an overview of essential safety and risk management procedures to enable the student to lead a safe and effective exercise program as well as practical application of various instructional formats.

ESS-252 Integrative Health and Wellnes 2- Credits

An examination of the use of specific integrative and alternative interventions based on evidence-based research to help students apply this knowledge while educating clients in making wellness decisions. Historical, theoretical, practical, and present integrative health care practices and the effects of these practices on health, fitness, and wellness of body, mind, & spirit in acute and chronic conditions are investigated.

Take ESS-120. (Required, Previous).

ESS-259 Essential of Exercise Physiology 3- Credits

The student studies the description, analysis, and comprehensive changes that the body systems undergo while at rest and at exercise, both permanent and temporary.

Take ESS-120. (Required, Previous).

ESS-260 Practicum Sport Performance 3- Credits

This course is intended to be a practical experience course for the fitness professional field. The SP student will spend time observing and assisting a fitness professional in the field. The SP will gain a better understanding of the career opportunities and requirements and skills of professionals in the field. Graded S/U.

Take ESS-120. (Required, Previous). | Take ESS-170. (Required, Previous). | Take ESS-245. (Required, Previous).

ESS-265 Applied Human Anatomy 3- Credits

This specialized course will consist of an in-depth study of the human skeletal system, articular (joint) system, and the system of skeletal muscles (structure, function, and interaction). It is designed to prepare students for the classes that are required for sport performance and physical education teacher education programs and assist in the preparatory programs in pre-physical therapy and pre-athletic training.

Take ESS-120. (Required, Previous). | Take ESS-266L. (Recommended, Concurrent).

ATTENTION: The below descriptions should only be referenced for the 2023-24 academic year. All real-time course descriptions are available in the live [University Catalog of Courses and Sections Offerings](#).

ESS-270 Nutritional Principles for Sport and Exercise 3- Credits

Study of the nutritional needs of the athlete and active person. Emphasis includes: fat, carbohydrate, protein, vitamin, mineral and water needs of the active person; energy metabolism, food and fluid intake prior to, during and after exercise; nutritional management of anemia and diabetes; nutrient needs of the young and old athlete.

Take ESS-120. (Required, Previous).

ESS-280 Special Topics Exercise Science 1-3 Credits

See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ESS-285 Intro to Research and Scientific Inquiry 3- Credits

The ability to identify and synthesize relevant literature into active rhetorical discourse is a critical aptitude in any field. In this course, students will develop their skills in identifying, curating, and synthesizing scientific literature into a persuasive research argument. Students will learn to use literature databases, research management software, collaborative project management, and produce a focused, polished written work rooted in relevant scientific literature.

Take ESS-120. (Required, Previous). | Take ENG-112. (Required, Previous).

ESS-291 Careers in Health & Human Performance 2- Credits

Careers in Exercise and Sport Science are among the fastest-growing and most diverse fields of study. This course is designed to help you assess your personal skills and values and research professional requirements for different careers. You will identify careers that align with your goals, pathways to success, and develop a nascent professional portfolio to support those endeavors.

Take ESS-120. (Required, Previous).

ESS-335 Fitness Testing and Exercise Prescription Prescription 3- Credits

Principles and practices of prescribing exercise to healthy individuals, and individuals with life-style and congenital conditions such as cardiac problems, asthma, diabetes, pregnancy, and physical disabilities. Included in the topics will be proper avenues of using screening tests and fitness parameters to design proper fitness activities to all populations.

Take ESS-351 ESS-352 ESS-375 ESS-351 ESS-353. (Recommended, Previous).

ESS-336 Nutrition and Disease Prevention 3- Credits

In this course, students will be exposed to the most significant chronic and nutritional diseases of our time, notably obesity, cardiovascular disease, diabetes, gastrointestinal disease, cancer, and a broad range of nutritional diseases-with specific attention placed on nutritional anemias.

Take ESS-236. (Required, Previous).

ESS-340 Sport Psychology 3- Credits

See PSY-340.

Take PSY-101 or PSY-220. (Required, Previous).

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ESS-341 Exercise Psychology 3- Credits

See PSY-341.

Take PSY-101 or PSY-220. (Required, Previous).

ESS-342 Clinical Aspects of Nutrition and Wellne 3- Credits

Clinical application of knowledge, skill, and attitude to provide health promotion and disease prevention for individuals, families, and communities in various settings. In addition to the classroom activities, students will be required to complete 45 hours in clinical, where they will have practical experience in the promotion of nutrition and wellness.

Take ESS-336. (Required, Previous). | Take PBH-201. (Required, Previous). | Take ESS-252. (Required, Previous).

ESS-342L Clinical Aspec. of Nutr & Well Lab - Credits

Clinical Aspec. of Nutr & Well

Take ESS-342. (Required, Concurrent).

ESS-350 Coaching and Personal Training 3- Credits

In this course, students will be exposed to all the important aspects of personal training. In addition to the classroom activities, students will be required to participate in a four-week practicum where they will actually gain practical experience in coaching and personal training.

Take ESS-120. (Required, Previous). | Take ESS-351 ESS-352. (Recommended, Previous or concurrent).

ESS-351 Kinesiology 3- Credits

A study of the functions of muscles in various movements, locations, and types. The study of articulations and their anatomical limitations. The student studies a kinesiological analysis of several activities. The lecture portion of the class will meet for 2 hours per week and the lab will meet for a 2 hour session. Cross listed as BIO-351.

Take ESS-120. (Required, Previous). | Take ESS-265 or BIO-225. (Required, Previous).

ESS-351L Kinesiology Lab - Credits

Kinesiology Lab

Take ESS-351. (Required, Concurrent).

ESS-352 Physiology of Exercise 2- Credits

The student studies the description, analysis, and comprehensive change that the systems of the body undergo while at rest and at exercise. Body changes that occur in body systems from rest to exercise, both permanent and temporary, are studied. Cross-listed as BIO-352.

Take ESS-120. (Required, Previous). | Take BIO-226 or BIO-334. (Required, Previous). | Take CHE-100 CHE-151 or CHE-140. (Required, Previous).

ESS-352L Physiology of Exercise Lab 1- Credits

ESS-352 lab.

Take ESS-352 or ESS-550. (Required, Previous or concurrent).

ATTENTION: The below descriptions should only be referenced for the 2023-24 academic year. All real-time course descriptions are available in the live [University Catalog of Courses and Sections Offerings](#).

ESS-353 Sport Physiology 4- Credits

This course is a survey of Sport Physiology as it relates to fitness, performance and health. Topics include neuromuscular, metabolic, cardiovascular, pulmonary, and muscular responses to exercise, the methods for improving exercise performance and special considerations that are specific to the science of sport physiology. Coursework will focus on application of knowledge into practical skills designed to improve performance and health enhancement.

ESS-353L Sport Physiology Lab - Credits

Sport Physiology Lab

Take ESS-353. (Required, Concurrent).

ESS-355 Care and Prevention of Athletic Injuries 3- Credits

Study of factors which affect maximum human performance in athletic competition. Techniques in shielding the athlete from possible damaging sequelae and in restoring him/her to maximum performance after injury. Consideration of the kinesiological, physiological, and behavioral factors in athletics.

Take BIO-225 or ESS-265. (Required, Previous).

ESS-360 Internship 1-3 Credits

Practical real-world experiences related to the academic content or career aspirations associated with the degree path the student has chosen. For students on a track towards a health profession, it is common for this to take the form of job or career shadowing. For students on a track towards an external clinically-related certification, it is common for this to be some sort of a supervised clinical experience. This course may be repeated for an accumulated total of 12 credits. No more than 3 credits may count toward the credits required in the major.

Take ESS-120. (Required, Previous). | Take ESS-291. (Required, Previous). | Take ESS-351 ESS-352 ESS-375 ESS-351 ESS-353. (Recommended, Previous).

ESS-371 Nutritional Science 3- Credits

In this course, students will be exposed to the full range of the scientific bases on which the field of nutrition is based. This will include, but is not limited to, the biochemical and physiological aspects of nutrition, how nutrition overlaps with energy metabolism and energy balance, and a thorough exploration of the major components of dietary molecules, vitamins, and minerals. (FAL)

Take ESS-120. (Required, Previous). | Take ESS-236. (Required, Previous).

ESS-375 Scientific Principles of Strength & Conditioning 2- Credits

The scientific principles and procedures involved in the assessment of physical fitness and exercise prescription. Primary topics include: cardio-respiratory endurance, muscular fitness, body weight and composition, flexibility, and pre-cardiovascular training screening.

Take ESS-120. (Required, Previous). | Take ESS-351. (Required, Previous). | Take ESS-352. (Required, Previous).

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ESS-375L Scientific Principles of Strength and Conditioning Lab 1- Credits

ESS-375 lab.

Take ESS-352 ESS-352L. (Required, Previous). | Take ESS-375 or ESS-550. (Required, Previous or concurrent).

ESS-380 Special Topics in Ess 1-3 Credits

A special topic addressing a current interest or subject in sport management or health and physical education. May be offered for one to three credits. May be repeated if content varies. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ESS-390 Path-Specific Certification Review 2- Credits

In this course, students will cover all the study materials required to pass the certification of their choice. At the conclusion of the preparation period, the student will be prepared to actually take the certification exam.

Take ESS-120. (Required, Previous). | Take 30 credits. (Required, Previous). | Take ESS-350 ESS-351 ESS-352 or ESS-353. (Recommended, Previous or concurrent).

ESS-411 Biochemistry and Metabolism 4- Credits

The student learns how exercise, in its many forms, changes the ways in which our bodies function at the molecular level. Using basic chemical and biochemical principles and tools, every aspect of exercise physiology is explained from the atomic through the molecular level.

Take CHE-151 CHE-152 CHE-305 or CHE-306. (Required, Previous). | Take BIO-203 BIO-204L ESS-352 ESS-375 PHY-110 PHY-111L. (Recommended, Previous).

ESS-412L Biochemistry and Metabolism Lab 2- Credits

The student learns how to apply basic laboratory methodologies to examine the underlying biochemistry and metabolism for the molecular, cellular, or organ-level responses resulting from acute and/or chronic exposure to exercise or its converse, disuse.

Take ESS-411. (Required, Concurrent).

ESS-434 Seminar in Physiology of Exercise 3- Credits

During this course, students will be exposed to the full range of the most important structural and metabolic aspects of the acute responses to human physical exercise and the adaptations that occur following chronic exposure to physical training as well as the adaptations to disuse and inactivity. This presentation will presume complete familiarity with medical-level physiology and biochemistry. Each topic will be presented via reading and discussing the most important and relevant peer-reviewed publications. Three lecture hours per week. Cross-listed as BIO-434.

Take BIO-226 or BIO-334. (Required, Previous). | Take BIO-310 or BIO-311. (Required, Previous). | Take ESS-352. (Recommended, Previous or concurrent).

ESS-434L Advanced Physiology of Exercise Lab - Credits

ESS-434 lab. Cross-listed as BIO-434L.

Take BIO-434. (Required, Concurrent).

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ESS-445 Clinical Aspects of Exercise Physiology 3- Credits

In this course, students will be exposed to the role of exercise and exercise prescription in clinical settings. It will include, but not be limited to, aspects of cardiovascular function, pulmonary function, and central issues such as control of blood pressure and aging.

Take ESS-120. (Required, Previous). | Take ESS-352 ESS-375 or ESS-353. (Required, Previous or concurrent). | Take BIO-226 or BIO-334. (Recommended, Previous).

ESS-470 Nutritional Biochemistry 3- Credits

In this course, students will be exposed to the biochemistry of nutrition. Students will develop an understanding of the absorption, metabolism, and biochemical roles of macronutrients, micronutrients, vitamins, and minerals. Cross-Listed as BIO-470.

Take CHE-305. (Required, Previous). | Take BIO-204 or ESS-120. (Required, Previous). | Take CHE-306. (Recommended, Previous or concurrent). | Take BIO-310 or BIO-311. (Recommended, Previous or concurrent). | Take ESS-352 or ESS-434. (Recommended, Previous

ESS-475 Advanced Strength and Conditioning 3- Credits

In this course, students will be exposed to advanced concepts of strength and conditioning. The goal is to prepare students to apply these concepts to program analysis and then to the construction of effective programs.

Take ESS-120. (Required, Previous). | Take BIO-226 or BIO-334. (Required, Previous). | Take ESS-352 or ESS-434. (Required, Previous). | Take ESS-375. (Recommended, Previous or concurrent).

ESS-480 Special Topics in Exercise Science 1-3 Credits

A special topic addressing a current interest or subject in exercise or sport science. May be offered for one to three credits. May be repeated if content varies. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ESS-490 Senior Seminar 3- Credits

A capstone course for seniors majoring in any of our four majors: Nutrition, Fitness, and Wellness, Sport Performance, Exercise Science, or Physiology of Exercise. Students read and report on writings in any area relevant to their major with Exercise and Sport Sciences ESS. The skill of summarizing, analyzing, and applying this information to the chosen field of endeavor is emphasized. Integrates the general education theme and readings. These skills are demonstrated in both written and oral presentations. The senior comprehensive (contained within ESS-490) is a literature review and poster presentation.

ESS-491 Capstone in Health & Human Performance 1- Credits

Careers in allied health, exercise science, and performance are among the fastest-growing and most diverse fields of study. This course is designed to help you transition your qualifications and accomplishments into a successful postgraduate path. You will reflect on your goals and values, refine your professional portfolio, and engage in networking and interpersonal training.

Take ESS-120. (Required, Previous). | Take ESS-291. (Required, Previous). | Take 80 credits. (Required, Previous).

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ESS-498 Research Project 1-3 Credits

Under the guidance of a faculty mentor, each student will participate in a real-world research project related to at least one aspect of the academic program. This can be an individual project or part of a larger project connected to one of our external partners. At the end of each semester, the student will make a formal oral presentation of their findings. Research deemed to be of sufficient quality by the faculty mentor may be incorporated into a manuscript to be submitted for publication.

Take ESS-351 ESS-352 ESS-375 ESS-351 ESS-353. (Recommended, Previous).

ESS-499 Independent Study 1-4 Credits

Guided readings and research.

ESS-511 Biochemistry and Metabolism 4- Credits

The student learns how exercise, in its many forms, changes the ways in which our bodies function at the molecular level. Using basic chemical and biochemical principles and tools, every aspect of exercise physiology is explained from the atomic through the molecular level.

ESS-524 Medical Physiology 4- Credits

The content of this course will provide a full description of all the essential aspects of human physiology. The depth of this course is designed to prepare students for the integrative physiology normally presented in veterinary, dental, or medical schools, or graduate programs in physiology. Four lecture hours per week.

Take ESS-411 or ESS-511. (Required, Previous).

ESS-534 Seminar in Physiology of Exercise 3- Credits

This course presents students with the structural and metabolic aspects of the adaptations to human physical exercise. Both acute and chronic adaptations to exercise as well as disuse will be addressed. This presentation will presume complete familiarity with medical-level physiology, biochemistry, and metabolism.

Take ESS-411 or ESS-511. (Required, Previous). | Take BIO-334 or ESS-524. (Required, Previous). | Take ESS-550. (Required, Previous).

ESS-535 Clinical Exercise Testing 3- Credits

The student learns how to conduct and analyze the results from a wide range of clinical exercise physiology measurement modalities.

Take ESS-411 or ESS-511. (Required, Previous). | Take BIO-334 or ESS-524. (Required, Previous). | Take ESS-550. (Required, Previous).

ESS-536 Nutrition and Disease Prevention 3- Credits

In this course, students will be exposed to the most significant chronic and nutritional diseases of our time, notably obesity, cardiovascular disease, diabetes, gastrointestinal disease, cancer, and a broad range of nutritional diseases-with specific attention placed on nutritional anemias.

Take ESS-411 or ESS-511. (Required, Previous). | Take BIO-334 or ESS-524. (Required, Previous). | Take ESS-550. (Required, Previous).

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ESS-544 Seminar in Clinical Exercise Physiology 3- Credits

Take ESS-411 or ESS-511. (Required, Previous). | Take BIO-334 or ESS-524. (Required, Previous). | Take ESS-550. (Required, Previous).

ESS-545 Clinical Exercise Physiology 3- Credits

The student learns all of the interactions between the acute and chronic exercise stimulus and the disease states that might respond positively to chronic exercise.

Take ESS-411 or ESS-511. (Required, Previous). | Take BIO-334 or ESS-524. (Required, Previous). | Take ESS-550. (Required, Previous).

ESS-545L Clinical Exercise Physiology Laboratory 1- Credits

The student learns all of the interactions between the acute and chronic exercise stimulus and the disease states that might respond positively to chronic exercise.

Take ESS-545. (Required, Concurrent).

ESS-550 Acute and Chronic Exposures to Exercise 4- Credits

The student studies the description, analysis, and comprehensive change that the systems of the body undergo during the rest to exercise transition and the nature of the adaptations that occur after long-term chronic exposures to exercise.

Take ESS-411 or ESS-511. (Required, Previous). | Take BIO-334 or ESS-524. (Required, Previous).

ESS-554 Exerc Prescrip for Patients Chro Disease 3- Credits

The student learns all of the interactions between the acute and chronic exercise stimulus and chronic disease states.

Take ESS-411 or ESS-511. (Required, Previous). | Take BIO-334 or ESS-524. (Required, Previous). | Take ESS-550. (Required, Previous). | Take ESS-545. (Required, Previous).

ESS-555 Cardiovascular Clinical Exercise Physiol 3- Credits

The student learns all of the interactions between the acute and chronic exercise stimulus and cardiovascular disease states.

Take ESS-411 or ESS-511. (Required, Previous). | Take BIO-334 or ESS-524. (Required, Previous). | Take ESS-550. (Required, Previous). | Take ESS-545. (Required, Previous).

ESS-570 Nutritional Biochemistry 3- Credits

In this course, students will be exposed to the biochemistry of nutrition. Students will develop an understanding of the absorption, metabolism, and biochemical roles of macronutrients, micronutrients, vitamins, and minerals. Assessment and evaluation of general supplements will also be discussed.

Take ESS-411 or ESS-511. (Required, Previous). | Take BIO-334 or ESS-524. (Required, Previous). | Take ESS-550. (Required, Previous).

ESS-590 CEP Exam Preparation 3- Credits

The student is guided through the preparation for the Clinical Exercise Physiologist certification exam offered by the American College of Sports Medicine. This course is graded S/U.

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Take ESS-411 or ESS-511. (Required, Previous). | Take BIO-334 or ESS-524. (Required, Previous). | Take ESS-545. (Required, Previous). | Take ESS-550. (Required, Previous).

ESS-591 CEP Exam Prep Presentation 1- Credits

In this course, students who have prepared for the Clinical Exercise Physiologist certification exam offered by the American College of Sports Medicine will present a summary of their preparation. This course is graded S/U.

Take ESS-590. (Required, Previous).

ESS-600 Research Methods and Design 2- Credits

This course will guide students in the conceptualization, design, and justification of future research studies. Students will generate novel hypotheses supported by published and preliminary data. Students will design experiments to test those hypotheses and present these in a single, cohesive piece of writing. Students will further develop their project proposals to incorporate specific experimental methods with potential pitfalls, alternative approaches, and feasibility analyses. Satisfactory completion of this course will be required for beginning master's level research.

Take ESS-511. (Required, Previous). | Take ESS-524. (Required, Previous).

ESS-601 Research 1-12 Credits

Independent master's level research. This course is graded S/U.

Take ESS-600. (Required, Previous).

ESS-602 Thesis Defense 1- Credits

Production and defense of a thesis based on master's level research. This course is graded S/U.

Take ESS-600. (Required, Previous). | Take ESS-601. (Required, Previous).

FIN-111 Personal Finance 3- Credits

Introduces personal finance and the financial planning process. Study includes budgeting and cash management, credit and debt management, tax management, major purchase and housing expenditures, insurance fundamentals, investment fundamentals, retirement and estate planning. Financial calculators and computer applications are utilized.

FIN-180 Special Topics in Finance 1-3 Credits

Selected topics applying to the study of finance. Course subjects are announced at the time of pre-registration and may be repeated for different topics. The current economic and business environments will generate topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

FIN-280 Special Topics in Finance 1-3 Credits

Selected topics applying to the study of finance. Course subjects are announced at the time of pre-registration and may be repeated for different topics. The current economic and business environments will generate topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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FIN-310 Managerial Finance 3- Credits

Focuses on the financial functioning of business enterprises. Topics covered include organizational forms, the financial marketplace, the international financial marketplace, ratio analysis, time value of money, the risk/return tradeoff, fixed-income securities, common stock securities, and capital budgeting. Financial calculators and cases are utilized. This course is only offered in the MAP program. Take ACC-210 or ACC-250. (Required, Previous).

FIN-311 Advanced Corporate Finance 3- Credits

Focuses on the financial functioning of business enterprises. Topics covered include the cost of capital, capital structure, dividend policies, working capital management, intermediate-term funding, options, leases, and corporate restructuring. Financial calculators and cases are utilized. Take ACC-250. (Required, Previous). | Take BUS-309 or FIN-310. (Required, Previous).

FIN-350 Money and Banking 3- Credits

Introduces the financial market environment, the Federal Reserve System and monetary policy, and the major security markets. Study includes the roles of financial markets and interest rates, the functions of the Federal Reserve System and its monetary theory and policy, money markets, bond markets, mortgage markets, and stock markets. Take 30 credits. (Required, Previous).

FIN-352 Public Finance 3- Credits

This course provides students with a project-oriented introduction to public finance. Topics covered typically include an introduction to government finance and overview of the United States' revenue system, phases in the federal budget cycle, the design of the tax system, budget balance and the consequences of government debt, reasons for government intervention in the marketplace, cost-benefit analysis of government investment and government programs, and current policy debates (e.g., income support for the poor, education, social security, the government and health care). Take 30 credits. (Required, Previous).

FIN-356 Real Estate 3- Credits

Covers the mastering of basic real estate principles and the transfer of real estate. Teaches practical knowledge related to the purchasing and leasing of residential, commercial and investment property. Study includes financing, title insurance, legal considerations, options, contract purchases, purchase money mortgages, tax ramifications and other real estate issues. Take 30 credits. (Required, Previous).

FIN-357 Risk and Insurance 3- Credits

Studies risk management and the nature of risk, insurance as a method of dealing with risk, and insurance as a social and economic institution. Topics include property, liability, life, health and social insurances. Take 30 credits. (Required, Previous).

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FIN-358 Student Managed Venture Fund 3- Credits

This course provides students with an opportunity to make actual investments in local companies, while managing the Clark H. Byrum School of Business Venture Fund. Students become venture capitalists for a semester, meeting with local companies, analyzing business plans and deciding which businesses to fund. Students also maintain a record of the fund's investments and returns. This course can be repeated and fulfills the elective business experience requirement. The course may be repeated a second time and count as an upper level finance course.

Take ACC-250. (Required, Previous). | Take BUS-205. (Required, Previous). | Take MKT-240. (Required, Previous). | Take MGT-250. (Required, Previous).

FIN-360 Investments 3- Credits

Studies the fundamentals of investments and how they are analyzed and evaluated. This course focuses on security selection, portfolio diversification, and asset allocation. Topics also covered include techniques, vehicles, and strategies for implementing investment goals in light of risk-return tradeoffs.

Take 1 courses; From rule DA.STATS # Take MKT-240 MGT-250. (Required, Previous). | Take FIN-310 or BUS-205. (Required, Previous).

FIN-380 Special Topics in Finance 1-3 Credits

Selected topics applying to the study of finance. Course subjects are announced at the time of pre-registration and may be repeated for different topics. The current economic and business environments will generate topics. May be offered for one to three credits. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

FIN-411 International Finance 3- Credits

This course helps students identify and solve problems that arise when cash flows are denominated in a foreign currency. The topics addressed in the course include foreign currency markets, exposure to foreign currency risk, hedging exposure foreign currency risk with futures, option and swap contracts, and valuation of cross-border capital investment opportunities. Many concepts can be applied from both a financial manager's perspective within a multinational corporation and from a portfolio manager's perspective.

Take BUS-309. (Required, Previous).

FIN-420 Financial Institutions 3- Credits

An analysis of the commercial banking system in the United States, the international banking system and other nonbank financial institutions. Study includes commercial bank sources and uses of funds, bank regulation, bank management and performance, and banking in foreign countries. Also, nonbank financial institutions are studied, including savings institutions, credit unions, finance companies, mutual funds, securities firms, pension funds, and insurance companies. This course is only offered in the MAP program.

Take FIN-310. (Required, Previous).

FIN-430 Advanced Investments 3- Credits

This course covers concepts and techniques associated with managing an investment portfolio. An applied approach is utilized to demonstrate key factors in the relationship between risk and return. The

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study of valuation, optimal portfolio construction, and risk measurement/management techniques are emphasized. May count for elective business experience.

Take FIN-360. (Required, Previous).

FIN-455 Cases in Accounting and Finance 3- Credits

See ACC-455.

Take 62 credits. (Required, Previous).

FIN-460 Internship in Finance I 3- Credits

Designed to give qualified upper division accounting and finance majors on-the-job educational experiences. It is an introduction to a practical, supervised work experience that is related to the student's area of study. Placement is arranged after application, interview, and approval by the department faculty. The student and the employer give periodic reports and evaluations. All co-op placements are paid positions. A minimum of 180 hours of actual work experience is required to earn three credits. Credits earned in these courses are not included in the 40-credit limit in the major. Student may enroll for three to nine credits. Graded S/U.

FIN-461 Internship in Finance II 3- Credits

Designed to give qualified upper division accounting and finance majors on-the-job educational experiences. It is an introduction to a practical, supervised work experience that is related to the student's area of study. Placement is arranged after application, interview, and approval by the department faculty. The student and the employer give periodic reports and evaluations. All co-op placements are paid positions. A minimum of 180 hours of actual work experience is required to earn three credits. Credits earned in these courses are not included in the 40-credit limit in the major. May enroll for three to nine credits. Graded S/U.

FIN-462 Internship in Finance III 3- Credits

Designed to give qualified upper division accounting and finance majors on-the-job educational experiences. It is an introduction to a practical, supervised work experience that is related to the student's area of study. Placement is arranged after application, interview, and approval by the department faculty. The student and the employer give periodic reports and evaluations. All co-op placements are paid positions. A minimum of 180 hours of actual work experience is required to earn three credits. Credits earned in these courses are not included in the 40-credit limit in the major. May enroll for three to nine credits. Graded S/U.

FIN-480 Special Topics in Finance 1-3 Credits

Selected topics applying to the study of finance. Course subjects are announced at the time of pre-registration and may be repeated for different topics. The current economic and business environments will generate topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

FIN-499 Independent Study in Finance 1-3 Credits

Guided study and/or research in finance.

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FRE-101 Introduction to French I 3- Credits

Students will identify social and cultural norms in the Francophone world and compare them to their own cultural practices. They will also learn to ask and answer simple questions and write and interpret simple texts on everyday topics in the present tense. This course is conducted in French.

Take FRE-101P LANG-NT or FRE-NT. (Required, Previous).

FRE-102 Introduction to French II 3- Credits

Students will engage in appropriate behavior in specific cultural and social contexts in French, ask and answer questions, and write and interpret texts on familiar topics. Students will also describe cultural products and practices in the Francophone world and reflect on and compare their own cultural products, practices, and perspectives. This course is conducted in French.

Take FRE-101 or FRE-102P. (Required, Previous).

FRE-180 Special Topics in French 1-3 Credits

Study of a selected topic in French current affairs, business, cultural expression or literary works involving a particular topic, theme, or genre. The selected topics or themes are publicized in the semester class schedule. Advanced communication skills developed through a study abroad experience also apply as a special topic. For credits earned through a study abroad experience, selected topics are approved by the advisor in French and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

FRE-200 Intermediate French I 3- Credits

Students will engage in appropriate, spontaneous conversations in specific cultural and social contexts in French, ask and answer questions, and write and interpret texts on familiar topics. Students will also investigate, discover and describe cultural products and practices in the Francophone world and reflect on and compare their own cultural products, practices, and perspectives. This course is conducted in French.

Take FRE-101 or FRE-200P. (Required, Previous).

FRE-201 Intermediate French II 3- Credits

Students will advance their ability to engage in spontaneous conversations and interpret and write both fictional and non-fictional texts on concrete and some abstract topics. Students will also research cultural products and practices and compare cultural perspectives between their own cultures and those in the Francophone world. This course is conducted in French.

Take FRE-200 or FRE-201P. (Required, Previous).

FRE-220 Intro to French Literature 3- Credits

Development of skills required to read for information and to analyze written materials of average difficulty. Readings comprise prose fiction, newswriting, articles of cultural or historical interest, and simple technical material written for the general reader. Video newscasts are reviewed periodically. This course partially satisfies the general education curriculum standards for the development of humanistic and artistic knowledge.

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Take FRE-201 or FRE-ADV. (Required, Previous). | Take FRE-200 or FRE-ADV. (Required, Previous).

FRE-230 Oral Communication in French 3- Credits

In this community-engaged course, students will develop speaking and listening strategies by engaging in conversation both inside and outside of the classroom. They will acquire effective oral communication techniques, prepare and deliver brief oral reports, and debate topics of civic and personal interest. Through the use of authentic materials such as video, audio recording, and interactions with native speakers, students will practice their speaking and listening skills. Class is taught in French.

Take FRE-201 or FRE-ADV. (Required, Previous). | Take FRE-200 or FRE-ADV. (Required, Previous).

FRE-280 Special Topics in French 1- Credits

Study of a selected topic in French current affairs, business, cultural expression or literary works involving a particular topic, theme, or genre. The selected topics or themes are publicized in the semester class schedule. Advanced communication skills developed through a study abroad experience also apply as a special topic. For credits earned through a study abroad experience, selected topics are approved by the advisor in French and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

FRE-310 Written Communication in French 3- Credits

Review of the essentials of French grammar with application to composition. The course is designed to help students write simple social correspondence, take notes, write cohesive summaries and resumes, as well as narratives and descriptions of a factual nature. Course taught in French.

Take FRE-200 or FRE-ADV. (Required, Previous). | Take FRE-201 or FRE-ADV. (Required, Previous).

FRE-315 French Civilization 3- Credits

The course examines the evolution of French civilization, its institutions and cultural expression from the Gauls to the Fifth Republic. The evolution from monarchy to Republic, in the movement of ideas, in social conventions, and in literary and artistic achievement identifies France as a political and cultural center in Europe. Class is taught in French.

Take FRE-201 or FRE-ADV. (Required, Previous). | Take FRE-200 or FRE-ADV. (Required, Previous).

FRE-316 France and the French Today 3- Credits

The course presents a multi-faceted view of the continuing evolution of France and the French people since the inauguration of the Fifth Republic in 1958. Important influences include the role of France in Europe and in international organizations, the economy, the feminist movement, the changing demographics due to immigration, the expanded influences of Francophonie and modern technology. Class is taught in French.

Take FRE-201 or FRE-ADV. (Required, Previous).

FRE-320 Cinema: Experiment, Technique, and Art 3- Credits

The course will trace the development of film as an art form in France since early experiments by Louis and Auguste Lumiere in the 19th century. The student will view and analyze French films from the

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1930's to the present, particularly those which represent the master works of filmmakers, directors and actors. Through reading films, the class will determine how craft, technique, science and imagination mesh in artistic creation. Class is taught in French.

Take FRE-201 or FRE-ADV. (Required, Previous). | Take FRE-200 or FRE-ADV. (Required, Previous).

FRE-325 Intro to French Phonetics 3- Credits

Students will learn the sound system of standard French, and consider dialectal variation in France, Canada, and other Francophone regions of the world. They will also explore questions about the mental representation of linguistic information, the processes of word formation, and language variation and change, and discover linguistic patterns and regularities for themselves. This course is conducted in French.

Take FRE-200 FRE-201 or FRE-ADV. (Required, Previous).

FRE-330 French for Business 3- Credits

Study of a selected topic in French current affairs, business, cultural expression or literary works involving a particular topic, theme, or genre. The selected topics or themes are publicized in the semester class schedule. Advanced communication skills developed through a study abroad experience also apply as a special topic. For credits earned through a study abroad experience, selected topics are approved by the advisor in French and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once.

Take FRE-201 or FRE-ADV. (Required, Previous). | Take FRE-200 or FRE-ADV. (Required, Previous).

FRE-331 French for the Professions 3- Credits

In this course, students will examine professional interactions and forms of communication in the French-speaking world. Business scenarios such as business trips, transportation, advertising, and etiquette at French business conventions will provide students with the professional vocabulary necessary. By engaging in hands-on activities, students will enhance their proficiency in oral and written communication skills while creating a professional portfolio.

Take FRE-201 or FRE-ADV. (Required, Previous). | Take FRE-200 or FRE-ADV. (Required, Previous).

FRE-360 Internship/Practicum in French 3- Credits

An approved internship or work experience using the student's proficiency in the French language. May enroll for one to six credits, a maximum of three credits may apply toward the major. Graded S/U.

Take 62 credits. (Required, Previous).

FRE-380 Special Topics 1-3 Credits

Study of a selected topic in French current affairs, business, cultural expression or literary works involving a particular topic, theme, or genre. The selected topics or themes are publicized in the semester class schedule. Advanced communication skills developed through a study abroad experience also apply as a special topic. For credits earned through a study abroad experience, selected topics are approved by the advisor in French and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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FRE-480 Special Topics 1-3 Credits

Study of a selected topic in French current affairs, business, cultural expression or literary works involving a particular topic, theme, or genre. The selected topics or themes are publicized in the semester class schedule. Advanced communication skills developed through a study abroad experience also apply as a special topic. For credits earned through a study abroad experience, selected topics are approved by the advisor in French and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

FRE-499 Independent Study 2-3 Credits

Guided readings and research.

FYS-110 First Year Seminar 3- Credits

This seminar is a theme-based course for first year students, which integrates them into the academic life of Marian University. The seminar will provide students with the opportunity to expand their critical thinking, information literacy, collaborative learning, understanding of the Franciscan values, and other skills that develop students' intellectual and practical competencies. This course partially satisfies general education curriculum standards for foundational intellectual skills in written communication.

FYS-H10 Honors First Year Seminar 3- Credits

This seminar is a theme-based course for first year students, which integrates them into the academic life of Marian University. The seminar will provide students with the opportunity to expand their critical thinking, information literacy, collaborative learning, understanding of the Franciscan values, and other skills that develop students' intellectual and practical competencies. This course partially satisfies general education curriculum standards for foundational intellectual skills in written communication.

GER-101 Introduction to German I 3- Credits

Students will identify social and cultural norms in the German-speaking world and compare them to their own cultural practices. They will also learn to ask and answer simple questions and write and interpret simple texts on everyday topics in the present tense. This course is conducted in German. Take GER-101P LANG-NT or GER-NT. (Required, Previous).

GER-102 Introduction to German II 3- Credits

Students will engage in appropriate behavior in specific cultural and social contexts in German, ask and answer questions, and write and interpret texts on familiar topics. Students will also describe cultural products and practices in the German-speaking world and reflect on and compare their own cultural products, practices, and perspectives. This course is conducted in German. Take GER-101 or GER-102P. (Required, Previous).

GER-180 Special Topics in German 1-3 Credits

Study of a selected topics in German current affairs, business, film, literary works or other cultural expression involving a particular topic, theme, or genre. The selected topics or themes are publicized in the semester class schedule. Advanced communication skills developed through a study abroad

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experience also apply as a special topic. For credits earned through a study abroad experience, selected topics are approved by the advisor in German and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

GER-200 Intermediate German I 3- Credits

Continued development of proficiency in communication skills. The course is designed to help the student participate in simple conversations on topics such as personal history and leisure-time activities, read consistently with increased understanding simple connected texts, write short narratives about familiar topics, use correct word order, and demonstrate an understanding of cultural differences and/or similarities in a world view. This course partially satisfies the general education curriculum standards for the development of humanistic and artistic knowledge.

Take GER-102 or GER-200P. (Required, Previous).

GER-201 Intermediate German II 3- Credits

Continues the review of basic structural elements of the German language and provides a context for students to develop consistency in understanding and correct usage as they advance to connected discourse in German. The course is designed to help the student initiate, sustain and close a general conversation, read consistently with full understanding simple connected texts and get some main ideas from texts featuring description and narration, write about personal experience, and appreciate culture-based values in the German tradition. This course partially satisfies the general education curriculum standards for the development of humanistic and artistic knowledge.

Take GER-102 or GER-201P. (Required, Previous).

GER-220 Narrative Prose in German 3- Credits

Development of skills required to read for information and to analyze written materials of average difficulty. Readings consist of selections from typical narrative prose of the nineteenth and twentieth centuries.

Take GER-200 GER-201 or GER-ADV. (Required, Previous).

GER-230 Oral Communication in German 3- Credits

In this community-engaged course, students will develop speaking and listening strategies by engaging in conversation both inside and outside of the classroom. They will acquire effective oral communication techniques, prepare and deliver brief oral reports, and debate topics of civic and personal interest.

Through the use of authentic materials such as video, audio recording, and interactions with native speakers, students will practice their speaking and listening skills. Class is conducted in German

Take GER-102 or GER-ADV. (Required, Previous).

GER-280 Special Topics in German 3- Credits

Study of a selected topics in German current affairs, business, film, literary works or other cultural expression involving a particular topic, theme, or genre. The selected topics or themes are publicized in the semester class schedule. Advanced communication skills developed through a study abroad experience also apply as a special topic. For credits earned through a study abroad experience, selected

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topics are approved by the advisor in German and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

GER-310 Written Communication in German 3- Credits

Review of the essentials of German grammar with application to composition. The course is designed to help students write simple social correspondence, take notes, write cohesive summaries and resumes, as well as narratives and descriptions of a factual nature. Course taught in German.

Take GER-200 GER-201 or GER-ADV. (Required, Previous).

GER-315 History of German Civilization 3- Credits

An introductory study of the German people; lectures, readings and discussions on their geographical, political, historical, social and artistic development.

Take GER-200 GER-201 or GER-ADV. (Required, Previous).

GER-317 Germany's Collective Memory in Lit, Film and Memorials 3- Credits

Germany's complex and catastrophic history has made it a country that reflects deeply on its own past and how this past has shaped its sense of collective national identity. In this course, we will examine how memory is "constructed" and what types of memory exist: private vs. collective and then communicative vs. cultural. We discuss German literature, films and memorials about the major historical events in Germany during the 20th century. English is the language of instruction. Students taking the course as GER-317 will do the readings and assignments in German. For students registered under LAC-317, readings and assignments are in English. Course discussions are in English. Cross-listed as LAC-317.

Take GER-200 GER-201 or GER-ADV. (Required, Previous).

GER-330 German for Business 3- Credits

This course will introduce students to the German business world, the larger political and socio-economic context within which it is rooted and provide students with an overview of Germany as a global market player. Students will learn about Germany's role in the EU as well as social, financial, environmental and cultural issues that inform German business practices. Cross-listed as MGT-333.

Take GER-200 GER-201 or GER-ADV. (Required, Previous).

GER-331 German for the Professions 3- Credits

This course will provide students with the language and cultural skills necessary to negotiate various professional settings in German-speaking countries. Students will use business-specific German in professional contexts and develop a deeper understanding of German corporate culture and norms. Students will also produce relevant business documents such as resumes, cover letters and other professional correspondence.

Take GER-200 GER-201 or GER-ADV. (Required, Previous).

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GER-353 German Cinema: a Century in Motion 3- Credits

Introduction to German Cinema aims to provide students with a basic understanding of the history of German film and cinema from its early beginnings at the end of the 19th century to the present. While studying representative films from the German tradition students will explore issues related to film as an artistic medium which has had a profound impact on Germany's culture. We will explore 20th and 21st century German identity, culture, cultural memory, history and politics through the vehicle of film. Take GER-200 GER-201 or GER-ADV. (Required, Previous).

GER-380 Special Topics in German 3- Credits

Study of a selected topics in German current affairs, business, film, literary works or other cultural expression involving a particular topic, theme, or genre. The selected topics or themes are publicized in the semester class schedule. Advanced communication skills developed through a study abroad experience also apply as a special topic. For credits earned through a study abroad experience, selected topics are approved by the advisor in German and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

GER-480 Special Topics in German 3- Credits

Study of a selected topics in German current affairs, business, film, literary works or other cultural expression involving a particular topic, theme, or genre. The selected topics or themes are publicized in the semester class schedule. Advanced communication skills developed through a study abroad experience also apply as a special topic. For credits earned through a study abroad experience, selected topics are approved by the advisor in German and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

GER-499 Independent Study 3- Credits

Guided readings and research.

GLS-001 Global Study Abroad - Credits

Global Study Abroad

GLS-100 Moral Capitalism 3- Credits

See BUS 100.

GLS-101 Global Perspectives 3- Credits

In this course students will explore broad global issues that affect many aspects of our everyday lives and begin to develop intercultural competencies to effectively engage as global citizens. Issues of cooperation and conflict among states and peoples, globalization, economic development, human rights protections, and environmental degradation all encompass global concerns that directly impact individuals at the local level.

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GLS-102 Global Encounters 3- Credits

This is a second-semester, first-year course that will focus on a specific location and topic related to global studies. During Spring Break, students will travel together on a faculty-led trip to the destination you have been studying about. While the locations and topics vary, each section will cover four themes: Globalization and its consequences; the concepts of identity, self and 'the other'; Imperialism, colonialism and diaspora; and the ethics of travel. For Richard G. Lugar Fellows, travel costs are included in your scholarship. Students must have permission from the instructor to register for this course and be in possession of a valid passport at time of registration.

Take GLS-101. (Required, Previous).

GLS-180 Special Topics in Global Studies 1-3 Credits

Readings, discussion, and writing on selected topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

GLS-190 New Media and Digital Culture 3- Credits

See COM 190.

GLS-200 Global Ethics 3- Credits

The central goal of this course is to help student recognizes the cultural implications of making ethical choices. The curriculum emphasizes global and cross-cultural contexts for ethical decision-making, and examines ethics across a very broad range of situations, using the perspectives of social science, humanities and the sciences.

Take GLS-101. (Required, Previous). | Take PHL-130. (Required, Previous).

GLS-201 Global Economics 3- Credits

The aim of the course is to outline the process leading to the formation of the modern world economy in a broad institutional, comparative, and global perspective. Special attention will be devoted to the emergence of the world economy through developments in western Europe, economic tensions between Europe, America and Asia, and the impact of communist economies. In addition to the dominant framework formulated from the viewpoint of the industrialized countries, this course will also engage with perspectives from non-western countries, Global South economies. We also discuss financial crisis, development and inequality issues.

Take GLS-101. (Required, Previous). | Take MAT-115 MAT-130 MAT-145 MAT-215 MAT-230 BIO-205 BUS-205 CST-150 PHL-150 PSY-205 SOC-205 STA-205 or MAT-GEN. (Required, Previous).

GLS-202 Evolution and Ecology 4- Credits

See BIO 202.

GLS-206 Visual Design Concepts 3- Credits

See ART 206.

GLS-210 Survey of Global History 3- Credits

See HIS 200.

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GLS-213 Survey of African History 3- Credits

See HIS 213.

GLS-219 Sexual Minorities & Christianity 3- Credits

See THL 219.

Take THL-105. (Required, Previous).

GLS-220 Global Humanities 3- Credits

Global Humanities is a consideration of the particular kind of knowledge that art history, literary study, music history, and film studies offer to shed light on our shared human experience, meaning it is a study of how people express the human experience. It explores human creativity across chronology and geography by way of thematic conversations into the human experience as it searches for answers to the enduring questions of existence, of what it means to be human. The course is team-taught by faculty representing the areas of art history, literature, and music. This course partially satisfies the Transformational Journey Program requirement of Marian University.

Take ENG-112. (Required, Previous).

GLS-237 Global Social Work 3- Credits

This course introduces students to concepts related to the global development of social work, preparing students for work at the micro, mezzo, and macro levels in a global context. Students will explore how political, economic, cultural, faith-based, historical, and environmental factors impact social welfare policies and the delivery of human services in different regions of the world. Issues that may be included are: human rights, provision of basic life necessities, hunger and nutritional insufficiency, education, economic development, strains related to urbanization and modernization, ethnic conflict, environment and community health, and immigrant and migration rights. Course readings, discussion, and assignments will focus on the difference between what is universal and what is culturally specific about social welfare issues and interventions, and the ways that these must be adapted to increase their relevance for work in developing regions of the world, in international aid or relief organizations, and in programs for immigrants and refugees in this country.

Take GLS-101. (Required, Previous). | Take SWK-110. (Required, Previous).

GLS-270 Environmental Chemistry 4- Credits

See CHE 270.

Take CHE-110 CHE-152 or CHE-142. (Required, Previous).

GLS-280 Special Topics in Global Studies 1-3 Credits

Readings, discussion, and writing on selected topics. See course section comments for description.

Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

GLS-290 Model United Nations 3- Credits

This course explores the United Nations (UN), the world's forum for conflict resolution and global governance, focusing on the role of a particular member state. Students will learn about the organizational structure and processes of the UN as well as the foreign policy and positions of a specific country on key global issues. Students will role-play the representatives of that country at the UN in the

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classroom, and the learning experience will culminate with participation as delegates representing that country at a multi-day Model U.N. conference held in a major U.S. city (cities and regional conferences may vary). This course is open to all majors and has no prerequisites. Enhancement courses, such as GLS 290, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

GLS-301 Global Engineering 3- Credits

See EGR 301.

GLS-305 Global Persp in Environmental Science 3- Credits

This course covers current issues in environmental science using a global lens. This course will explore the science of environmental impact on ecosystems and human health, focusing on key international issues. Topics may include the human population, agriculture and water use, global famine, deforestation, climate change, fire, and poverty.

GLS-313 Stereotyping & Prejudice 3- Credits

See PSY 313.

Take PSY-101 or PSY-220. (Required, Previous).

GLS-315 Theological Bioethics 3- Credits

See THL 316.

Take THL-105 THL-H05 or THL-105S. (Required, Previous). | Take PHL-130 or PHL-H30. (Required, Previous).

GLS-316 History of Global Slavery 3- Credits

See HIS 316.

GLS-317 Germany's Collective Memory in Lit, Film and Memorials 3- Credits

See GER 317.

Take GER-200 GER-201 or GER-ADV. (Required, Previous).

GLS-320 Immigration and Borderland Studies 3- Credits

See HIS 320.

GLS-321 Religious Perspectives on Social Issues 3- Credits

See THL 321.

Take THL-105. (Required, Previous).

GLS-323 Literature and Medicine 3- Credits

See ENG 323.

Take ENG-112. (Required, Previous).

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GLS-325 Latino Catholic Culture 3- Credits

See SPA 325.

Take SPA-201 or SPA-ADV. (Required, Previous).

GLS-326 Writing in the Sciences 3- Credits

See ENG 326.

Take ENG-112. (Required, Previous).

GLS-327 The Byzantine East 3- Credits

See ARH 337.

Take HUM-210. (Required, Previous).

GLS-329 The Modern British Service Economy 3- Credits

See MGT 329.

GLS-330 Global Logistics and SCM 3- Credits

See LSM 330.

Take LSM-240. (Required, Previous).

GLS-333 Conflict Transformation 3- Credits

See COM-333.

GLS-335 Genocide in Historical Perspectives 3- Credits

See HIS-335.

GLS-336 Latino Voices in the US 3- Credits

See SPA 335.

Take SPA-220 or SPA-310. (Required, Previous).

GLS-337 History of the World Wars 1870-1936 3- Credits

See HIS 337.

GLS-338 Global Marketing 3- Credits

See MKT 338.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take BUS-209 or MKT-240. (Required, Previous).

GLS-341 Music of World Cultures 3- Credits

See MUS 340.

GLS-344 The Modern World 3- Credits

See ARH 344.

Take ARH-236. (Required, Previous).

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GLS-347 Intercultural Art 3- Credits

See ARH 347.

Take HUM-210. (Required, Previous).

GLS-350 Humanitarian Logistics 3- Credits

See LSM 350.

Take LSM-240. (Required, Previous).

GLS-357 Eastern Religions 3- Credits

See THL 357.

Take THL-105. (Required, Previous).

GLS-358 Religion and Globalization 3- Credits

The principal focus of this Global Issues Seminar will be an investigation into how globalization has impacted Christianity (Catholicism, Protestantism, and Pentecostalism), Islam, and Buddhism, as well as how these faiths are influencing globalization. The geographical focus will be Africa, Asia, and Latin America. Class will include field trips to various places of worship. Cross-listed as THL-358.

Take GLS-101. (Required, Previous). | Take THL-105 THL-H05 THL-105S. (Required, Previous).

GLS-360 Global Studies Internship 3- Credits

Internationally focused internships can be internal or external to the college, in local, national, or international public, private, or non-profit sectors.

GLS-363 Global Human Resources 3- Credits

See MGT 363.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take BUS-209 or MGT-250. (Required, Previous).

GLS-364 Geographic Information Systems 4- Credits

See BIO 365.

GLS-364L Geographic Information Systems Lab - Credits

GLS-364 lab.

Take GLS-364. (Required, Concurrent).

GLS-366 Death & Dying in Global Persp 3- Credits

A comparative, anthropological examination of customs, practices, and beliefs surrounding life and death. What constitutes life? What determines well-being? How are these measured? Likewise, what constitutes a good or bad death, by what medical definition, and according to what rituals and beliefs? Practices related to grieving, memorializing the deceased, and handling of bodies will be investigated in order to understand their origins and consequences in social life.

Take GLS-101. (Required, Previous). | Take SOC-101. (Required, Previous).

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GLS-367 Cross-Cultural Psychology 3- Credits

See PSY-367.

GLS-368 American Indian Film & Literature 3- Credits

See ENG 366.

Take ENG-112. (Required, Previous).

GLS-370 E-Logistics 3- Credits

See LSM 370.

Take LSM-240. (Required, Previous).

GLS-375 Global Cinema 3- Credits

This course will examine trends in international cinema from its inception through the twentieth century with a particular emphasis on the depiction of human dignity. The course will meet twice a week for two and a half hours - half of which will be used for screening the film, and the other half devoted to lecture and discussion. The class will begin with German silent cinema and include films from France, Italy, Spain, Denmark, Sweden, Poland, India, China, Japan and Iran. Cross-listed as ENG-375.

GLS-377 Global Health Issues and Interventions 3- Credits

See SOC-377.

Take GLS-101 or SOC-101. (Required, Previous).

GLS-380 Global Studies Seminar 3- Credits

Course includes readings, discussion, research, and writing on selected topics and themes from a particular academic discipline. The course may be cross-listed with a sponsoring department. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

GLS-382 Media Ethics and Law 3- Credits

See COM 382.

GLS-406 Global Women's Movement 3- Credits

See HIS 406.

GLS-409 Global Histories of Witches & Witchcraft 3- Credits

See HIS 409.

GLS-411 International Finance 3- Credits

See FIN 411.

Take BUS-309. (Required, Previous).

GLS-420 Financial Institutions 3- Credits

See FIN 420.

Take FIN-310. (Required, Previous).

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GLS-423 Theologies From the Margin Pastoral Care & Spiritual Accompaniment 3- Credits

See THL 423.

Take THL-226 or THL-228. (Required, Previous). | Take THL-218 THL-219 THL-316 THL-319 THL-321 THL-322 or THL-338. (Required, Previous).

GLS-439 Global History of Sex 3- Credits

See HIS 439.

GLS-445 Plagues, Pox & Pandemics 3- Credits

See HIS-445.

GLS-446 Global Women's Health Issues 2- Credits

See NSG 445.

GLS-450 International Business 3- Credits

See MGT 450.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take BUS-209 or MGT-250. (Required, Previous).

GLS-460 Global Engagements 3- Credits

Global Engagements allow students to apply the knowledge they have acquired through the Global Studies program and to gain practical experience in their scholarly and professional areas of interest. Global engagements can be completed through year/semester/summer study abroad programs, global studies internships, language immersion programs, global service work, or through faculty-led global travel. Registration for GLS 460 requires instructor approval and all global engagements should be coordinated through the Global Education Office (GEO).

Take GLS-101. (Required, Previous). | Take GLS-102. (Required, Previous). | Take 30 credits. (Required, Previous).

GLS-472 Multicultural Ministry Pastoral Care & Spiritual Accompaniment 3- Credits

See THL 472.

Take THL-226 or THL-228. (Required, Previous). | Take THL-218 THL-219 THL-316 THL-319 THL-321 THL-322 or THL-338. (Required, Previous).

GLS-480 Global Studies Seminar 1-3 Credits

Course includes readings, discussion, research, and writing on selected topics and themes from a particular academic discipline. The course may be cross-listed with a sponsoring department. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

GST-200 Introduction to Gender Studies 3- Credits

This interdisciplinary course is designed to introduce students to the discipline of gender studies by examining the following topics, central to the study of gender: the social construction of gender and its

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relation to other social constructs like race and class; and the consequences of gender construction in terms of legitimizing power and creating and perpetuating inequality. In this course, students will examine the implications of gender constructs as they are applied to academic and public discourse and lived experience. This is a collaborative course in which the instructor of record will be joined by 6 or 8 other faculty members who will each preside over one week's classes, presenting course material in lecture or seminar format and guiding student discussion. This course satisfies general education curriculum standards for behavioral and social knowledge.

GST-490 Senior Capstone 3- Credits

This course presents an opportunity for students to apply women's studies and gender theory to practice and synthesize their work as the final project in the GST minor. Students will arrange for an internship or volunteer placement at a nonprofit organization, business, or institution that incorporates a gender focus. This will be set up before the semester begins. A structured reflection forum to analyze experience and methods will meet on a weekly basis. Students will meet to think through relationships among empirical research, theory, activism, and practice in gender studies. Majors with diverse interests, perspectives, and expertise will have the opportunity to reflect on the significance of their gender studies education in relation to their current work, their academic studies as a whole, and their plans for the future.

Take GST-200. (Required, Previous). | Take GST-210. (Required, Previous).

HIS-100 Civics and Democratic Engagement 3- Credits

This course provides students with an understanding of key concepts, historical frameworks, and an introduction to civic literacy necessary to exercise responsible citizenship. Students will examine the underlying assumptions of American democracy, the history of its establishment and evolution, and how political socialization occurs via government, educational, and civilian organizations. This course partially satisfies the Transformational Journey Program requirement for Problem Solving.

HIS-101 Historical Perspectives 3- Credits

This course introduces students to the discipline of history as it is taught at the college level. Students will learn how to engage in historical thinking and discover why historians debate issues of evidence and interpretation. By studying the "history of history," students will have a better understanding of how historical knowledge is created, be able to distinguish between various style of academic history. This class will help students develop their critical reading, academic writing, information literacy, and research skills.

HIS-180 Special Topics in History 1-3 Credits

Readings, discussion, and writing on selected topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

HIS-200 Survey of Global History 3- Credits

This course surveys the history of global interactions between civilizations in Asia, Africa, Europe, Oceania, and the Americas with attention to cultural comparisons over time, and to the impacts of global interdependence upon cultures, economies, religions, and political institutions. Emphasis is given

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to comparative themes, the study of causal relationships and patterns of change and continuity over time; and the social significance of ethnicity, gender, race, and class in historical events and study.

HIS-210 Indiana History 3- Credits

This course is a survey of the social, political, and economic history of the state of Indiana. It encompasses the history of the area pre-statehood and begins with an examination of Native American and Indigenous history and proceeds chronologically to the present day. It also examines the specific military conflicts, political issues, and economic concerns modern state and city governments have in general, and the specific history of Indiana. Recommended for education majors.

HIS-213 Survey of African History 3- Credits

This course is designed to introduce students to the social, political, economic, and cultural history of Africa from the earliest times to the present. In this survey of African history, students will examine the historical background to more recent events on the continent. Students will gain an overview of some of the most significant developments in the African past, including early state building, the growing influence of Islam and Christianity, and the impact of the trans-Atlantic slave trade, as well as how these developments have shaped current debates over identity and economic underdevelopment. Because of the complexity and size of the African continent, this course does not attempt to provide a comprehensive history of each country, people, and region. Rather, it is organized chronologically and thematically in order to help students see Africa as a continent long at the crossroads of global interactions.

HIS-216 American History 1490-1864 Educators 3- Credits

This is a survey course of the first half of American history beginning with pre-Columbia America and going through the American Civil War. This course focuses on the major themes of political, social, economic, and cultural history, and examines the formation of the American nation-state. Students who take this course will gain a better understanding of the chronological order and content sections of early American history critical for history majors, minors, education majors, and those interested in deepening their understanding of America's past.

HIS-217 United States History from 1865-Present Minors 3- Credits

This is a survey course of the second half of American history beginning with Reconstruction and going through to the present day. This course focuses on the major themes of political, social, economic, and cultural history, and examines the transformation of American democracy since the Civil War to today. Students who take this course will gain a better understanding of the chronological order and content sections of later American history critical for history majors, minors, education majors, and those interested in deepening their understanding of America's past.

HIS-220 American Constitutional History 3- Credits

The U.S. Constitution is the basis of America's legal system and governance structure. This class is a semester long course that explores the history, content, and evolution of the U.S. Constitution from its creation in the late 18th century to debates over its meaning, scope, and future in the 21st. Recommended for students considering pre-law.

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HIS-280 Special Topics in History 1-3 Credits

Readings, discussion, and writing on selected topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

HIS-307 Women's and Gender History 3- Credits

This course will focus on the experiences of and ideas about, women across the globe using specific regional case studies. By exploring gender as a category of historical analysis, the course will put women at the center of the story with a special emphasis on how gender has historically intersected with women's race, class, ethnic, sexual, and regional identities.

HIS-310 History of the US Presidency 3- Credits

This course examines one of the most powerful elected offices in American democracy and global political history. From the office's creation in the 1780's to today, this political office has often been not only a major factor in contemporary issues, but also serves as a way for historians to organize and periodize the past by examining how different administrations approached various social, economic, and political issues. As such this course not simply examine the biographies of the office holders, but also study the issues, crises, and historical impact that has shaped this political office, and how that office in turn has shaped world history.

HIS-316 History of Global Slavery 3- Credits

Starting in ancient times this course will survey the history of global slavery. The course will be paying particular attention to themes such as slaving, slave resistance, agency, labor, gender, economics, migration and family. We will work to identify commonalities and differences among slave systems, the reasons for those differences, and consider how scholars and others have viewed slavery over time.

HIS-320 Immigration and Borderland Studies 3- Credits

The U.S.-Mexico border is the longest borderland between a developed and a developing nation in the world. As such, this class will examine the unique set of issues this situation presents and scrutinize possible solutions to what has been deemed the "border problem." Students will survey the human experience on the border by studying histories of migrants, law enforcement, aid workers, journalists, and residents as well as engage with contemporary political documents and narratives.

HIS-335 Genocide in Historical Perspectives 3- Credits

This course is a comparative study of mass killings in the twentieth century. It is divided into two sections. The first is an analysis of the definitions and typologies of mass killings followed by a discussion of the historical, social, and economic forces that explain them.

HIS-337 History of the World Wars 1870-1936 3- Credits

This course examines the period from 1870-1945, an era marked by two great wars and a 20-year interval of peace. Through a global study of World War I and World War II, students will look at the social, political, and cultural ideas central to this pivotal moment in modern world history.

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HIS-343 African-American History 3- Credits

This course offers a survey of African American history, thought and cultural expression in the United States from the colonial period to the present. It will examine the African origins of black Americans, the slave trade and experience, Reconstruction, the Civil Rights Movement, Black Power and contemporary freedom struggles, highlighting the diverse movements for liberation and equal rights. It will explore significant themes including labor, religion, community, and popular culture. Importantly, the readings will illuminate the intersections of race, class and gender in understanding the diversity of the African American experience.

HIS-346 Movies and Historical Perspective 3- Credits

This course examines the significant cultural trends reflected in and caused by the history of motion pictures. As a cultural history of movies, this course pulls together a variety of historical perspectives including movies as an art, an industry, a force for social and political change, and an educational tool.

HIS-348 The History of Catholic Church in US The United States 3- Credits

This course surveys major trends, movements, issues, and personalities that have shaped the Catholic experience in the United States. The Catholic community's internal development is treated through themes of colonial origins, immigration, and Americanization. Discussing the American context in which the Catholic community developed stress the influences from a Protestant and/or secular culture. The course aims to impart a fuller understanding of what forms the identity of U.S. Catholics and how Catholics came to their present position in national life.

HIS-352 War and Memory 3- Credits

How we think about war and violence informs not just the way we think about conflict, but in many ways how we think about the periods of peace that are vital to human civilization and people's ability to thrive and grow. This class is a semester long exploration of war, human conflict, and organized violence, and how nations, communities, and individuals have thought about those conflicts once they have passed. Recommended for those considering careers in public history.

HIS-366 American Indian Film & Literature 3- Credits

Students explore the rich storytelling tradition preserved in American Indian oral, visual, and material literatures from ancient times to the present day. While becoming more familiar with Native American and Indigenous Studies, students encounter a range of Native scholarship and literary works, ultimately expanding their definition of "literature" and redefining their understanding of Native productions today.

Take ENG-112. (Required, Previous).

HIS-380 Special Topics in History 3- Credits

Readings, discussion, and writing on selected topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

HIS-406 Global Women's Movement 3- Credits

This course will examine the history women's movements around the world utilizing feminist histories, grassroots activism, and comparative studies. We will focus on several thematic issues, regional

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analyses, and various types of primary and secondary sources. Using various case studies from around the world, we will examine the ways in which gender, nationality, culture, and other differences have impacted women's lives, as well as analyze the varied ways in which power and social control both create and complicate the process of political activism. Throughout the course, the objective will be to develop your awareness of the historical and contemporary political contexts in which social justice movements, especially those led by women, have emerged throughout modern history.

HIS-409 Global Histories of Witches & Witchcraft 3- Credits

The history of witches, witch-hunts, and the historical narrative of witchcraft provides a lens to examine gendered social norms; moreover, we can assess the history of these norms through witch's very violation of them. Using primary and secondary sources we will explore what can be understood about global history via the legacy of witches. Though we will focus on the theme of witches and witchcraft, this course is first and foremost a course on inquiry and argument. It is designed to help you learn strategies for asking analytical questions, conveying critical insights, articulating complex ideas, and practicing the craft of the historian.

HIS-439 Global History of Sex 3- Credits

This course will introduce students to the role that history plays in shaping modern sexuality. A global study of the role of both institutions and individuals in shaping the historical discourse on sex and sexuality will allow us to explore human societies around the globe at their most intimate level. Topics to be addressed will include: sexual norms and possibilities for nonconformity, the interplay of sex and gender roles, sex and the body, the role of religion, science, and capitalism in shaping social values about sexuality, censorship and sex, modern romance, sexual liberation, and personal sexual identities.

HIS-445 Plagues, Pox & Pandemics 3- Credits

This course will allow students the rare opportunity to occupy two identities: one as a student of history and one as a direct contributor to the historical record. Students will explore the role of pandemic diseases in the shaping of modern global history with specific attention paid to the Black Plague, Cholera, 'Spanish' Flu, and AIDS. At the same time, students will work together to create primary source materials that future historians will use to study the ongoing impact of the COVID-19 Global Pandemic, a moment that is already being referred to as a watershed event in history, and as such, act as direct contributors to the history of pandemics.

HIS-460 Internship in History 1-4 Credits

Students will work with HIS faculty to design a project in tandem with weekly onsite experience at a local museum, non-profit, state office, or partner organization. Students will be placed according to their career plans, academic abilities, and research interests. Students will be evaluated on the completion and quality of their project in addition to evaluations from their site supervisor. Regular reports and meetings with the coordinating faculty are required to earn credit.

HIS-470 Modern America 3- Credits

A study of the emergence of the United States to great power and influence in world affairs after 1945; social, political, and economic changes in American domestic life from World War II to the present. Take 3 credits; From Subject HIS; From Level 300. (Required, Previous).

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HIS-480 Special Topics in History 1-3 Credits

Readings, discussion, and writing on selected topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

HIS-499 Independent Study 3- Credits

Guided readings and research.

HON-340 Great Books Discussion 1-3 Credits

Honors Program students are directed in the close reading of a single text whose significance make it pivotal in the history of ideas and culture. May be repeated.

HON-380 Honors Program Special Topics 1-3 Credits

Honor Program students are directed in the readings, discussion, and writing on selected topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

HON-399 Directed Research 1- Credits

Required for all seniors presenting at the Honors Colloquium. Unless otherwise advised by the director of the Honors Program, seniors should register for only one credit during the spring semester of their senior year. Graded S/U.

HPE-100 Weight Training 1- Credits

Enhancement courses, such as HPE 100, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-101 Walking for Fitness 1- Credits

Enhancement courses, such as HPE 101, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-102 Racquetball 1- Credits

Enhancement courses, such as HPE 102, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-105 Introduction to Martial Arts 1- Credits

Enhancement courses, such as HPE 105, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-106 Step Aerobics 1- Credits

Enhancement courses, such as HPE 106, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-107 Tennis 1- Credits

Enhancement courses, such as HPE 107, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associates degree.

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HPE-108 Bowling 1- Credits

Enhancement courses, such as HPE 108, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-109 Volleyball 1- Credits

Enhancement courses, such as HPE 109, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-111 Basketball 1- Credits

Enhancement courses, such as HPE 111, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-112 Wallyball 1- Credits

Enhancement courses, such as HPE 112, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-113 Plyometrics Speed Training 1- Credits

Enhancement courses, such as HPE 113, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-114 Beginning Pilates 1- Credits

Enhancement courses, such as HPE 114, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-115 Basic Physical Defense for Women 1- Credits

Enhancement courses, such as HPE 115, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-119 Developmental Conditioning 1- Credits

Enhancement courses, such as HPE 119, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-121 Zumba 1- Credits

Students participate in an aerobic format designed for cardiovascular development, muscle toning and flexibility, coordination, and overall body conditioning. The Zumba program teaches easy to follow steps/movements to four basic Latin rhythms (meringue, salsa, cumbia, reggaeton) to create a dynamic fitness program. Enhancement courses, such as HPE-121, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

HPE-128 Foundations of Physical Education and Sport 2- Credits

Exploration in the field of physical education; identification of various philosophies and how to establish a philosophic base for physical education; historical and social forces that act upon physical education and sports; and principles that exist in the field of physical education.

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HPE-139 Introduction to Sport Management 3- Credits

An examination of the many career opportunities that exist in the field of sport management. Emphasis is provided in career planning, terminology of sport management, professional skills required, historical perspectives of sport, and the psychology and sociology of sport.

HPE-145 Health Phys. Ed. Teach Strateg & Methods 2- Credits

HPE teaching strategies designed to assist the HPE teaching major or minor in the development of lesson planning, leadership skills, methodology, and classroom procedures in the physical education environment.

HPE-150 Individual Sports 3- Credits

A study of rules, skills, strategy and self-testing relating to life-long sports. The student receives instruction in teaching techniques in tennis, golf, bowling, archery, tumbling and stunts, and other individual sports. Health and wellness is promoted in lifelong sports participation.

HPE-151 Instructional Methods in Tennis and Golf 1- Credits

The course includes instruction in the fundamental skills and rules of the sport of tennis and golf. Emphasis will be placed on the instructional techniques and methodology in order to help prepare the student to instruct tennis and golf.

Take HPE-128. (Required, Previous).

HPE-152 Instructional Methods in Volleyball 1- Credits

The course includes instruction in the fundamental skills and rules of the sport of basketball and volleyball. Emphasis will be placed on the instructional techniques and methodology in order to help prepare the student to instruct basketball and volleyball.

Take HPE-128. (Required, Previous).

HPE-153 Instructional Methods in Football and Soccer 1- Credits

The course includes instruction in the fundamental skills and rules of the sport of football and soccer. Emphasis will be placed on the instructional techniques and methodology in order to help prepare the student to instruct football and soccer.

Take HPE-128. (Required, Previous).

HPE-154 Instructional Methods in Lifetime Fitness 1- Credits

The course includes instruction and techniques of lifetime fitness skills, sports and activities. Emphasis will be on the importance of physical fitness and obtaining the knowledge of how to attain a health-enhancing level of fitness. Focus will be on group exercise and fitness activities such as Pilates, aerobics, and similar group activities.

Take HPE-128. (Required, Previous).

HPE-155 Instructional Methods in Strength and Conditioning 1- Credits

The course includes instruction in the fundamental skills and techniques of strength training including safety, strength physiology, spotting, training recommendations, lifting techniques, and program design as it relates to the physical education teaching environment.

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Take HPE-128. (Required, Previous).

HPE-160 Team Sports 3- Credits

A study of rules, skills, strategy and self-testing relating to team sports. The student receives instruction in teaching techniques in volleyball, softball, soccer, touch and flag football, basketball, and other team sports.

HPE-228 Movement and Rhythmic Activities 2- Credits

This study and teaching application of the skills associated with movement, rhythmic, and associated activities in the physical education environment. Emphasis will be on the fundamental skills, appreciation, and instructional strategies and teaching methods.

HPE-240 Officiating 3- Credits

Theory and practice of procedures, techniques, and ethics of officiating baseball, basketball, football, softball, and volleyball. The student has the opportunity to become licensed in any or all of the above sports. \$35 fee for state testing and license certification by the IHSAA.

HPE-247 Coaching Principles 3- Credits

This course is a comprehensive introduction to the coaching profession. Emphasis is placed on sport at the high school and serious club levels. Consideration is also given to coaching at other levels, such as youth, recreational, and intercollegiate sport programs. The primary goal of the course is to develop and enhance students' knowledge and understanding of concepts and techniques of coaching and their application to achieving important objectives in working with athletes. The course and textbook combine sport science theory and research with the practical knowledge and methods of expert coaches in the five essential categories of coaching education and professional practice. Principles and practical applications are presented and thoroughly explained for each of these five important dimensions of coaching.

HPE-249 School Health Education 3- Credits

This course is designed to prepare the health educator in teaching for school health throughout the school curriculum. Emphasis will be on the content, activities, and resources to help the classroom teacher deliver health instruction to K – 12 students and thereby help the students form a positive foundation for lifetime health and wellness.

HPE-265 Applied Human Anatomy 3- Credits

See ESS-265.

Take ESS-120. (Required, Previous). | Take HPE-266L. (Recommended, Concurrent).

HPE-266L Applied Human Anatomy Lab 1- Credits

See ESS-266L.

Take HPE-265. (Recommended, Previous or concurrent).

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HPE-269 Physical Activities for the Elementary Grades 3- Credits

This course is designed to incorporate physical activities and games into the elementary physical education classroom. Emphasis will be on activities of play, games, lifetime fitness, playground/gymnasium procedures and lesson planning. This course requires the student to be in an elementary classroom a minimum of 32 hours per semester.

HPE-344 Coaching of Basketball 2- Credits

Fundamentals of offensive and defensive techniques are studied. This course analyzes strategies, organization procedures, game preparation, coaching principles, and athlete health and safety.

HPE-345 Coaching of Football 2- Credits

Fundamentals of offensive and defensive techniques are studied. This course analyzes strategies, organization procedures, preparation, coaching principles, and athlete health and safety.

HPE-346 Coaching of Baseball and Softball 2- Credits

Techniques, theories, and principles of coaching baseball and softball; offensive and defensive fundamentals by position; rules, organizational and training methods and athlete health and safety.

HPE-347 Coaching of Track and Field 2- Credits

Techniques, theories, and principles of coaching track and field events; fundamentals for each event, rules, organizational and training methods and athlete health and safety.

HPE-348 Coaching of Volleyball 2- Credits

Techniques, theories, and principles of coaching volleyball; offensive and defensive strategies, rules, organization, fundamentals, training methods and athlete health and safety.

HPE-349 Coaching of Soccer 2- Credits

Techniques, theories, and principles of coaching soccer; offensive and defensive strategies, rules, organization, fundamentals, training methods, and athlete health and safety.

HPE-354 Legal Aspects in Sport Environments 3- Credits

An examination of legal issues in sport environments. A study of legal duties and responsibilities, negligence, due process, school laws, injuries to participants and spectators, liability, player eligibility, drug testing, and sex discrimination is provided.

HPE-360 Internship 3-12 Credits

Experiences in teaching, coaching, training, intramurals, recreation leadership, or sport information. The student has the opportunity to do fieldwork in one of these areas. This course may be repeated for an accumulated total of 12 credits. Does not count toward the credits required in the major. May enroll for four to twelve credits. Graded S/U.

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HPE-363 Adaptive Physical Education 3- Credits

This course is designed to provide basic knowledge pertaining to students with disabilities in the physical education classroom. Additionally, federal and state laws pertaining to the education of individuals with disabilities are addressed. Practical, on-site work at a local school is included.

HPE-370 Personal and Community Health and Safety 3- Credits

An investigation into personal and community health problems. Course work is focused on preparing the individual to teach health at the high school level.

HPE-380 Special Topics: Sport Management and Hpe 1-3 Credits

A special topic addressing a current interest or subject in sport management or health and physical education. May be offered for one to three credits. May be repeated if content varies. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

HPE-410 Organization & Administration of Pe & Sport 3- Credits

Methods of and problems in organizing and administering a physical education and health program. Criteria for designing curricula for all levels of instruction considering environmental and social forces that affect, challenge, and meet the needs of the student; equipment, protection, health and safety program, and standards of ethics.

HPE-420 Tests and Measurements of Physical Education 3- Credits

Designed for the health and physical education major with emphasis on techniques of test administration and application to results of physical performance activity programs. Content of course includes: statistical methods in measures of central tendency, measures of variability, z scores, correlation coefficient, t-tests, and chi square.

HPE-453 Essentials of Exercise Science for Hpe 3- Credits

This course is an applied approach to exercise science for the physical education teacher. It is designed to enable the physical education student to implement concepts of underlying performance techniques, to analyze and correct sport techniques, and to identify and assess fitness, energy systems, and training for the energy systems.

HPE-490 Senior Seminar in Hpe 3- Credits

A capstone course for seniors. Students read and report on writings in HPE or sport management. The skill of summarizing, analyzing, and applying this information to the chosen field of endeavor is emphasized. Integrates the general education theme and readings. Attendance at convocations required. These skills are demonstrated in both written and oral presentations.

HPE-499 Independent Study 3- Credits

Guided readings and research. May enroll for one to four credits.

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HUM-210 The Search for Meaning Through Culture 3- Credits

A consideration of the particular kind of knowledge which the literature, art and music of Western civilization have to offer; a study of artists' expressions of human experience. HUM-210 explores human creativity from prehistory to our world today and the search for answers to the enduring questions of existence.

Take ENG-112. (Required, Previous).

HUM-211 British History and Culture 3- Credits

Study abroad course at Harlaxton College in England. This course satisfies the Humanistic and Artistic Knowledge requirement in place of HUM-210.

Take ENG-112. (Required, Previous).

HUM-230 Literature, Music & Art in Western Tradition I 4- Credits

A consideration of the particular kind of knowledge which the literature, art and music of western civilization have to offer; the search for meaning through culture. The class consists of two hours of literature and one hour each of art and music, and deals with literature and the arts from the ancient world through the Renaissance period. This course satisfies the teacher certification requirements for world literature, comparative literature, and music and art appreciation. This course partially satisfies the general education requirement in the cultural awareness category.

Take ENG-115. (Required, Previous).

HUM-230L Literature, Music & Art Discussion Group - Credits

The discussion group for HUM-230.

Take HUM-230. (Required, Concurrent).

HUM-231 Literature, Music & Art in Western Tradition II 4- Credits

A continuation of HUM-230, this class consists of two hours of literature and one hour each of art and music, and deals with literature and the arts from after the Renaissance period up to present time. This course satisfies the teacher certification requirements for world literature, comparative literature, and music and art appreciation. This course partially satisfies the general education requirement in the cultural awareness category.

Take ENG-115. (Required, Previous).

HUM-231L Literature, Music & Art Discussion Group - Credits

Discussion group for HUM-231.

Take HUM-231. (Required, Concurrent).

HUM-380 Special Topics in Humanities 1-3 Credits

Special topics in humanities. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

HWB-110 Holistic Health: Mind, Body, and Spiritu 3- Credits

This course will provide students the opportunity to engage in self-reflection and an understanding of their own well-being through the lenses of mind, body and spiritual health. Students will explore the

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concept of Holistic Health through multiple disciplinary perspectives and applied learning modalities. This course partially satisfies the Transformational Journey Program curriculum standards for Health and Well-Being

INT-100 Information Technology Fundamentals I 2- Credits

This course introduces the student to terminology, concepts, theory, and fundamental skills used to implement information systems and functions in a wide variety of applications from small to enterprise organizations. Topics include the history of and trends in computing, operating systems, database technology, security, cloud implementations and other concepts associated with applying the principles of good information management to the organization. Students will apply technical writing and effective presentation skills through completing a research project.

INT-101 IT Service Center Essentials 2- Credits

This course requires that students work in a team to identify and employ methodologies pertinent to the assessment, design and operation of business computer information systems. Teams will analyze and implement methodologies for the development of a business-oriented computer environment.

INT-102 Systems Logic and Understanding 3- Credits

This course introduces students to algorithms, logic development and flowcharting as tools used to document computer logic. Students will study math concepts and the importance to computer development. Concepts will be demonstrated using basic scripting and simple programming code.

INT-103 Information Technology Fund II 3- Credits

Students will learn the necessary competencies with hands-on experience in the lab for an entry level Information Technology professional. Students will have the knowledge required from assembling components, installing software, to understanding the basics of virtualization, scripting, desktop imaging, deployment and security forensics.

INT-201 Introduction to Networking Principles 3- Credits

The course will teach students the fundamentals of networking, such as network hardware, the OSI model, network protocols, network operating systems, and cabling.

INT-202 Fundamentals of Networking and Cloud 4- Credits

The course covers the technical pieces and parts of a network and also societal implications such as security and data integrity. Using hands-on lab work, this course offers students the critical information needed for a role as an Information Technology professional who support computer networks.

INT-203 Technology Teaming & Implementation 2- Credits

This course provides an overview of the trends and expectations surrounding the infrastructure of small, middle, and large enterprise servicing IT Departments. Students will investigate systems strategies in association with proper application in varying service sectors. This course emphasizes business initiatives, roles, project management, teaming strategies, and scaling these areas across all types of business vertical needs.

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INT-204 Intro to Secure Systems Protocols in Bus 4- Credits

This course explores the field of Cybersecurity/Information Assurance focusing on the technical and managerial aspects of the discipline. Students are introduced to the basic terminology, concepts, and best practices of computer/network security and the roles and responsibilities of management/security personnel. The students will learn the technologies used and techniques involved in creating a secure computer networking environment including authentication and the types of attacks against an organization.

INT-290 IT Fundamentals Certificate Readiness 1- Credits

This course focuses on the knowledge and skills required to identify and explain the basics of computing, IT infrastructure, software development, and database use. With this new version comes the addition of the + to further distinguish ourselves within the marketplace and represent CompTIA quality and standards.

ISP-380 Special Topics in International Studies 3- Credits

This three-week international studies course, conducted in the last three weeks of May, offers students from all disciplines the opportunity to study in an international setting and enhance cultural and global awareness. The setting, focus, and academic department(s) sponsoring the course change each year. Credit can be obtained through HON, ISP, a 380 of the sponsoring department(s), or through a student's minor or major department with the approval of the departmental advisor. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ITS-205 Database Policies and Principles 3- Credits

Introduces students to the basic concepts of databases including the types of databases, the general database environment, and the importance of data to the business world. Students will be familiarized with use of the ANSI Structured Query Language, data warehousing, data mining, data visualization, data analysis, and big data.

ITS-206 IT Mobile Essentials 3- Credits

Develops the student's understanding of radio frequency fundamentals and behavior; the features and functions of wireless local area network components.

ITS-207 Open Source and Virtualization Software 4- Credits

This course is designed to help students with the necessary skills to understand and apply Linux and virtualization concepts while maintaining a clear division between subjects. Virtualization technologies include the exploration, installation, and troubleshooting of various virtualization software packages to obtain the skills necessary to choose and implement hypervisor environments for client-level operating systems.

ITS-290 IT A+ Certification Readiness 2- Credits

(A+) Preparation course is focused on the CompTIA A+ certification. Students can use this course as preparation leading to the certification or keeping the certification up to date. The preparation is designed to be a continued validation of one's expertise and a tool to expand one's skill set. Preparation includes practice tests and assignments based on the certification exams. Students are required to

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demonstrate course objectives through the appropriate certification exams preparation materials and completion of the appropriate certification exams at the end of the course. The fee for the certification exams is assessed upon enrollment in the course.

LAT-101 Latin I 3- Credits

Students will begin training to read Latin through immersion in and interpretation of stories, enriched by audio and video supplements, comprehensible written and spoken Latin, and cultural exploration activities. There's nothing to memorize, grammar is explained within the context of our stories, and everything is open book, open note. This course applies best-practice methods inspired by language acquisition research to provide a space to communicate in the language both in and beyond class. Take LAT-101P LAT-NT or LANG-NT. (Required, Previous).

LAT-102 Latin II 3- Credits

Students will continue training to read Latin in the manner first presented in LAT 101, with the Latin naturally increasing slightly in complexity. This story-based approach guides students to advance their language proficiency, furthering their ability to read the Latin stories told during the semester. Take LAT-101 or LAT-102P. (Required, Previous).

LAT-200 Intermediate Latin I 3- Credits

Students will finalize training to read Latin in the manner first presented in LAT 101 and 102. This course's conclusion of the story-based process to advance in language proficiency will ready the student for any future encounters with authentic Latin. Take LAT-102 or LAT-200P. (Required, Previous).

LAT-201 Intermediate Latin II: Readings in Latin Texts 3- Credits

Students will read authentic or lightly adapted Latin texts from ecclesiastical, medieval, classical, and modern Latin sources. Students will be able to apply what they have learned from previous Latin study to understand the words of Latin authors themselves. Through reading and composition activities and study of the literature's cultural context, this course launches students on their way to enjoyment of an ancient language still in use as a living world language. Take LAT-200 or LAT-201P. (Required, Previous).

LAT-280 Special Topics in Latin 1-3 Credits

Special Topics in Latin. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar. Take LAT-102. (Required, Previous).

LAW-104 Intro to the Paralegal Profession 3- Credits

This course is designed to introduce the students to the profession. The students will learn the expectations of a paralegal and legal assistant in multiple environments (small firm, large firm, government agencies, non-profits and organizations, corporations and other) and be exposed to a vast number of areas of specialization within criminal and civil law. Students will benefit from hearing from local and out of state paralegals, attorneys and judges in these various environments and specializations. Students will be exposed to the basic fundamentals of legal research and writing to

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prepare them for the next course in the sequence, as well as gain an understanding of credentialing, the PCCE and PACE exams, the current and projected demands in the industry, and how to become involved in local organizations and networking opportunities to gain an edge in internship placement and employment. This course is offered only in the MAP program.

LAW-215 Legal Research 3- Credits

This course is designed to introduce the student to various legal research techniques and databases and gain exposure to federal and state case law, statutes and regulations. The student will learn how to find information, analyze information, and analyze and validate case law. The student will be introduced to key technologies to aid in research and learn the importance of validating one's research. See the following components for the research course: Statutes (state, federal, international and uniform), Regulations (state, federal and ordinances), Case Law (state, federal and administrative), Internet research, copyright issues and secondary sources, Westlaw, Lexis, Bloomberg Law, Casemaker and Fastcase, Dockets and briefs, Business and people information, Law office software (e-discovery, case management, legal timekeeping and billing, litigation support, spreadsheet and database management). This course is offered only in the MAP program.

Take LAW-104. (Required, Previous). | Take ENG-101 or ENG-239; Minimum grade C+. (Recommended, Previous).

LAW-216 Legal Writing and Communication 3- Credits

The student will be exposed to a variety of legal writing tools and forms of writing, such as legal correspondence, thesis paragraphs, memorandums of law, statements, summary arguments, proposals and briefs. The student will be competent in predictive writing and persuasive writing and made aware of the importance of editing and the revision process. This course will focus on reading for comprehension in the legal setting; reinforcement of strong legal research skills; clear, concise and persuasive legal writing skills; and communication and presentation abilities. This course is offered only in the MAP program.

Take LAW-215; Minimum grade C+. (Required, Previous).

LAW-256 Professional Responsibilities and Ethical Decision-Making 3- Credits

This course is designed to introduce the student to ethics in the legal field. This course promotes professional behavior and communication, ethical decision-making, and strong analytical and interpretation skills. This course covers civil and criminal procedure, courtroom etiquette and individual legal rights. It will discuss the ethical obligations and liabilities of the attorney and paralegal relationships to each other and to the client. This course is offered only in the MAP program.

Take LAW-216; Minimum grade C+. (Required, Previous).

LAW-261 Legal Liability: Contracts for the Paralegal 3- Credits

This course is designed to focus on the basics of contract law from formation to failure of performance to remedy and change. Students will study civil liability, as opposed to criminal liability; contract reviewing and drafting and the liability of those who breach contract. This course is offered only in the MAP program.

Take LAW-216; Minimum grade C+. (Required, Previous).

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LAW-262 Legal Liability: Torts for the Paralegal 3- Credits

This course is designed to focus on the basics of torts law, examining the issue of lawsuits and damage awards. Students will study civil liability, as opposed to criminal liability. The course will provide a hands-on approach with applicable cases in order to prepare the student for work in the practical area of tort law. This course is offered only in the MAP program.

Take LAW-216; Minimum grade C+. (Required, Previous).

LAW-272 Civil Litigation for the Paralegal 3- Credits

This course will prepare students to properly and professionally assist attorneys in civil trial, from opening discovery to jury trial preparations. Students will draft legal documents; initiate, prepare and conduct discovery; navigate medical records and billing; investigate and interview; and design trial notebooks. This course is offered only in the MAP program.

Take LAW-216; Minimum grade C+. (Required, Previous).

LAW-285 Case Practice Management and Technology Capstone 3- Credits

In this economy, students must be ready to enter the workplace, knowing the basic requirements expected of them from potential employers in a legal environment, such as calendaring systems, scheduling strategies, technology in the law office, file management and office etiquette. This course prepares students to walk in the first day and succeed in the environment as a legal assistant and/or paralegal. This course will build and reinforce objectives learned in the prior legal specialty courses and help students bring it all together. This course is structured to provide students with not only a theoretical understanding of paralegal studies, research abilities, writing skills and computer technology and applications, but also practical, hands-on experience, including advanced electronic correspondence, research, discovery and filing. Microsoft applications, such as Word, Excel, Access and PowerPoint will be covered to aid in research, data keeping, spreadsheets, calendaring methods and time management skills. This course is offered only in the MAP program.

Take LAW-100. (Required, Previous). | Take LAW-104. (Required, Previous). | Take LAW-215. (Required, Previous). | Take LAW-216. (Required, Previous). | Take LAW-256. (Required, Previous). | Take LAW-261. (Required, Previous). | Take LAW-262. (Required, Pr

LAW-290 Legal Career Preparation and Development 1- Credits

This course develops students' abilities to successfully apply and interview for legal positions and provides an understanding of the current job market. Career planning, industry research, preparation and evaluation of appropriate documentation, such as an application letter and resume, and interviewing techniques are included. This course is offered only in the MAP program.

Take LAW-285. (Required, Previous).

LAW-292 Credentialing for the Paralegal Profession 1- Credits

This course will focus on the benefits and fundamentals of the process of credentialing of the professional paralegal and the basic, foundational preparation for the PCCE and PACE exams. It will prepare students for what to expect on the certification exam (PCCE) upon graduation and discuss new expectations in the growing and ever-changing market, as well as introduce students to local organizations that provide assistance in the credentialing process. This course is only offered in the MAP program.

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Take LAW-285. (Required, Previous).

LAW-299 Independent Study in Law 3- Credits

Independent study in paralegal studies. This course is offered only in the MAP program.

LAW-350 Current Events in Social and Criminal Justice & the Prison System 3- Credits

This course will follow current events in the national news. Students will be expected to evaluate and analyze the impact of social, political and economic issues and influences on the criminal justice systems, from the courts to the prison systems. This course will familiarize students with the structure and history of sentencing and corrections systems. Students will study our criminal justice system and identify problems in our system and sentencing laws and identify trends in sentencing and alternatives to incarceration.

LAW-360 Internship in Prelaw Studies/Paralegal Studies 3- Credits

Director of Educational Services/Paralegal Studies approves work load, work site, objectives and credit hours in consultation with the Director of Prelaw Studies and the onsite internship supervisor of the law office. 60 hours of work are required for 1 credit hour. This course is offered only in the MAP program. Graded S/U.

Take LAW-104. (Required, Previous). | Take LAW-215. (Required, Previous). | Take LAW-216. (Required, Previous). | Take LAW-256. (Required, Previous). | Take LAW-261. (Required, Previous). | Take LAW-262. (Required, Previous). | Take LAW-272. (Required, Pr

LAW-380 Special Topics in Law 3- Credits

The student will work with a mentor and be guided through a special project in one of the following focus areas to expand on the internship experience and provide research help to the law office of internship: criminal law, family law, civil litigation, immigration, bankruptcy, health law, international law, personal injury, motor sports (sports and entertainment law). This course is offered only in the MAP program. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

LDR-628 Business Law and Ethics 3- Credits

This course provides an introduction to the legal parameters within which organizations operate. In addition, the course will explore the moral and ethical responsibilities of formal authority roles and organizations.

LDR-638 Strategy and Execution 3- Credits

This course helps students develop strategic planning skills with a systemic perspective and practical methods for project management and execution.

LDR-648 Introduction to Design Thinking 3- Credits

In this course candidates develop leadership skills to move from counterproductive deficit based practices to powerful creative practices. Candidates are exposed to an overview of design thinking and given the opportunity to experiment with key questions and tools in order to understand and employ design thinking practices as a problem solving approach.

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LDR-698 Final Project and Presentation 2- Credits

In this course, students work with their advisor to make final preparations and deliver a presentation of their research project to a faculty panel and their classmates. Graded S/U.

LDR-701 Introduction to Doctoral Studies 3- Credits

In this course students examine what it means to take ownership of their developmental journey. Students examine their current capacity to exercise leadership and identify particular opportunities for their growth as part of creating their doctoral completion plan, including preliminary thinking about their capstone project.

LDR-710 Adaptive Leadership 3- Credits

This weeklong intensive opens the Program with an experiential exploration of key concepts and core competencies in building capacity to exercise leadership, including competencies critical to building and strengthening relationships, understanding and influencing stakeholders, and engaging people to make progress on difficult adaptive challenges.

LDR-715 Leadership Theory 3- Credits

This course investigates theories of organizational behavior, how those theories interact with historical and contemporary leadership theories, and implications for students' leadership practice. Take LDR-710. (Required, Previous).

LDR-717 Moral Leadership in a Conflicted World 3- Credits

Students examine the difficulties authority figures face when making decisions amidst a swirl of internal and external pressures, conflicting values, norms, and belief systems. How do we build capacity within ourselves and in our organization to systematically approach our work in an ethical and moral manner? Take LDR-710. (Required, Previous).

LDR-720 Adaptive Leadership and Social Change 3- Credits

Students experience and explore the paradoxical nature of group life in the context of exploring our most difficult social challenges. Candidates refine their diagnostic capabilities and intervention skills to mobilize others to make progress on their most difficult adaptive challenges. Take LDR-710. (Required, Previous).

LDR-730 Authority, Power & Ethics 3- Credits

Candidates engage in a deep exploration of authority dynamics and their own relationship with authority and power, including implications for ethical decision-making and their ability to show up with integrity under pressure. Take LDR-710. (Required, Previous).

LDR-740 Perspectives on Leadership 2- Credits

Candidates will participate in an international, national, or regional leadership conference to develop a more holistic vision of leadership perspectives. While not required, Candidates are encouraged to submit proposals for presentations at the conference they attend.

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Take LDR-710. (Required, Previous).

LDR-743 Heutagogy 3- Credits

In this course Candidates have both the freedom and support to investigate leadership from a perspective of their own choosing. They will drive the learning and determine the appropriate outcome for their investigation while the course facilitator (faculty member) will serve as a resource, guide, and support system.

Take LDR-710. (Required, Previous).

LDR-750 Transformation and Leading Change 3- Credits

Transformation and Leading Change

Take LDR-710. (Required, Previous).

LDR-751 Leadership Cir Profile 1- Credits

In order to grow our capacity to exercise leadership, it is imperative that we understand how we are showing up in our leadership role. This course addresses this challenge head on, exploring questions including: How do I show up in the system? Which of my behaviors are productive? Counterproductive? What are my blind spots? Where am I generating dependency rather than capacity? Where and how will I focus my own developmental energy to be most generative for my growth? In this course, this development is explored by leveraging a 360 Degree Feedback process (The Leadership Circle Profile 360 Degree Feedback Tool), combined with Developmental and Somatic Executive Coaching.

LDR-753 Conflict Management and Negotiation 3- Credits

Students are invited to build a dynamic relationship with conflict and conflict resolution. When and how might exercising leadership require us to generate conflict? Hold the tension? Facilitate resolution? Students will investigate conflict through the lens of identity and their own reaction to conflict.

Alternate Dispute Resolution (ADR) models are also engaged through study and practice.

Take LDR-710. (Required, Previous).

LDR-761 Sociotech Systems and Adaptive Enterpris 3- Credits

This course will introduce Candidates to the concepts of sociotechnical systems, adaptive enterprises, and design processes. It broadens the lens to account for powerful social and technological systems across the entire spectrum that impact the whole of an organization and its functioning.

Take LDR-710. (Required, Previous).

LDR-762 Design Thinking 2- Credits

In this course candidates develop leadership skills to move from counterproductive deficit based practices to powerful creative practices. Candidates are exposed to an overview of design thinking and given the opportunity to experiment with key questions and tools in order to understand and employ design thinking practices as a problem solving approach.

Take LDR-710. (Required, Previous).

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LDR-770 Finance and Resource Management 3- Credits

Whether for-profit or non-profit, each organization possesses a finite amount of resources to function. This course will cover the basics of business finance and the management of organizational resources and include basic accounting and resource prioritization and allocation.

LDR-781 Research Methods 3- Credits

Students refine their doctoral completion plan, begin analyzing multiple sources of information through a critical lens, explore basic approaches to research, and start developing a high level framework for their capstone project.

Take LDR-701. (Required, Previous).

LDR-783 Qualitative Research 3- Credits

Introduction to theories of qualitative research, the formulation of qualitative research questions, and the research approaches for qualitative research such as ethnography, case studies, Grounded Theory, and phenomenology.

Take LDR-781. (Required, Previous).

LDR-785 Quantitative Research 3- Credits

This course will address the fundamental principles of quantitative research including quantitative research questions, reliability and validity, types of variables, experimental designs and hypothesis development.

Take LDR-781. (Required, Previous).

LDR-787 Statistics for Research 3- Credits

Covering the basics of descriptive and inferential statistics such as measures of central tendency, t-Tests, ANOVA, Chi Square, and regression, this class prepares students to analyze the data gathered from their intervention in a meaningful way.

Take LDR-785. (Required, Previous).

LDR-790 Capstone Planning & Design 3- Credits

Students will research background information related to their chosen capstone project topic, diagnose the work, consider interventions, investigate methodologies, identify populations and settings, and complete the rough draft of a project proposal. This course is graded S/U.

Take LDR-783. (Required, Previous). | Take LDR-785. (Required, Previous).

LDR-793 Proposal Defense 2- Credits

The Project Proposal Defense is a collaboration between the student and their advisor in which the student finalizes the background information, diagnosis, and plan for the intervention and defends that document and plan before their committee. This course is graded S/U

Take LDR-790. (Required, Previous).

LDR-795 Capstone 3- Credits

Candidates register for individual advisement between the student and the Capstone Chair in the final semester of the program. This course focuses on completing the final draft of the capstone and

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preparing for its defense/presentation. If students need additional semesters, they must remain continuously enrolled in LDR 796 until they successfully complete and defend the capstone project. This course is graded S/U.

Take LDR-793. (Required, Previous).

LDR-796 Capstone Continuation - Credits

If students need additional time beyond LDR 795, they must remain continuously enrolled in Capstone Continuation until completing and successfully defending the final draft of the capstone. This continuation course does not bear course credits but does have a course fee rate that is equal to one hour of tuition. This course is graded S/U.

Take LDR-795. (Required, Previous).

LSM-240 Intro Logistics and SCM 3- Credits

An introduction to the analysis and design of domestic and international logistics systems and supply chain management. Topics include transportation, warehousing, inventory control, materials handling and packaging, plant and warehouse location decisions, sourcing, and financial analysis of supply chain performance. Concepts and practices that provide firms with a global competitive advantage are emphasized.

Take AIM-123 BUS-109. (Required, Previous).

LSM-320 Advanced Logistics 3- Credits

Provides in-depth knowledge on the application of logistics services from original sourcing through delivery of finished products in the supply chain. Focuses on fundamental logistics functions such as purchasing, procurement, forecasting, inventory control, scheduling, 3PLs, and distribution channels.

Take LSM-240. (Required, Previous).

LSM-330 Global Logistics and SCM 3- Credits

Addresses logistics and supply chain management in the global environment: global procurement and sourcing, methods of entry, international contracts, terms of trade, terms of payout, international modes, international insurance, managing global transaction risks, and developing strategic advantages in the global supply chain. The course addresses environmental, sustainable, and cultural decisions that affect logistics and supply chain processes.

Take LSM-240. (Required, Previous).

LSM-350 Humanitarian Logistics 3- Credits

This course provides an understanding of the key elements of humanitarian logistics. Students will learn key information on humanitarian aid, current implications of logistics and supply chain management, and how to employ future applications and innovation to humanitarian aid programs.

Take LSM-240. (Required, Previous).

LSM-370 E-Logistics 3- Credits

Describes the role of electronics, information technologies, and information systems in collaborative supply chain relationships. Tools and skills for understanding management of the electronic environment of logistics and supply chain management are emphasized.

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Take LSM-240. (Required, Previous).

LSM-380 Special Topics in LSCM 3- Credits

Selected topics of interest in Logistics and Supply Chain Management. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

Take LSM-240. (Required, Previous).

LSM-390 Contemporary Issues in LSCM 3- Credits

Provides students with experiential learning opportunities in solving relevant logistics and supply chain management issues. Topics focus on pertinent and recent studies within various industry sectors. Students develop skills and knowledge regarding contemporary issues in logistics and supply chain management.

Take LSM-240. (Required, Previous).

MAT-090 Introductory Algebra 3- Credits

Algebraic principles and procedures are studied. Understanding of concepts, not memorization of manipulative skills, is emphasized. Tables and graphs are integrated to give numerical and visual meaning to algebraic expressions. Developmental courses, such as MAT-090, count toward the credits required for degree completion, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

Take MAT-090P. (Required, Previous).

MAT-095 Intermediate Algebra 3- Credits

Designed for students needing a mathematics course to assist them in their major area of study, such as health science. Topics selected include linear equations, graphing, proportion and variation applications, use of exponents. Developmental courses, such as MAT-095, count toward the credits required for degree completion, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

Take MAT-095P. (Required, Previous).

MAT-115 Mathematics for Elementary School I Teachers I 4- Credits

This is the first of a two-semester sequence of courses designed to strengthen, broaden, and enrich the student's background in the areas associated with elementary school mathematics. Topics included are problem-solving, logic, sets, numeration systems, operations involving decimal and non-decimal bases, geometry of shape and size, and measurements. Manipulatives and hands-on experiences are utilized to demonstrate content. A weekly lab allows for additional work with manipulatives, student application of learned concepts, and a practicum experience in an elementary school for a minimum of 8 hours. The students teach a minimum of one lesson in their practicum setting. Three hours of lecture and two hours of lab per week. This course satisfies the general education curriculum standards for foundational intellectual skills in quantitative reasoning.

Take MAT-GENP MAT-GEN or MAT-095. (Required, Previous).

MAT-115L Mathematics for Elementary Teachers I Lab - Credits

MAT-115 lab.

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Take MAT-115. (Required, Concurrent).

MAT-116 Mathematics for Elementary School II Teachers II 5- Credits

This is the second of a two-semester sequence of courses designed to strengthen, broaden, and enrich the student's background in the areas associated with elementary school mathematics. Attention is given to various problem-solving techniques. In addition to the text, outside readings from other sources, especially Teaching Children Mathematics, are required. Manipulatives and hands-on experiences are utilized to demonstrate content. Topics included are problem-solving, geometry of shape and size, measurement, fractions, and real numbers. A weekly lab allows for additional work with manipulatives, student application of learned concepts, and a practicum experience in an elementary school for a minimum of 8 hours. The students will teach a minimum of one lesson in their practicum setting. Four hours of lecture and two hours of lab per week.

Take MAT-115. (Required, Previous).

MAT-116L Mathematics for Elementary Teachers II Lab - Credits

MAT-116 lab.

MAT-130 Statistics in the Contemporary World 3- Credits

Statistical ideas and reasoning are used to study current issues. Sampling distributions, measurement, and concepts of inference are included in the course. Concepts are applied to current opinion polls, political and social issues. This course satisfies the general education curriculum standards for foundational intellectual skills in quantitative reasoning.

Take MAT-GENP MAT-GEN or MAT-095. (Required, Previous).

MAT-140 College Algebra 3- Credits

An integrated course emphasizing the concepts and skills needed to continue in mathematics. Topics included are polynomials, algebraic fractions, equations, inequalities, functions, matrices, permutations, and graphing of selected functions. This course satisfies the general education curriculum standards for foundational intellectual skills in quantitative reasoning.

Take MAT-GENP MAT-GEN or MAT-095. (Required, Previous).

MAT-145 Precalculus 3- Credits

Study of foundational concepts for Calculus, which include the real number line, functions and their graphs, essential functions (polynomial, rational, exponential and logarithmic functions), trigonometric functions, and an introduction to limits via sequences and series. This course satisfies the general education standards for foundational intellectual skills in quantitative reasoning.

Take MAT-GENP MAT-GEN or MAT-095. (Required, Previous).

MAT-180 Special Topics in Mathematics 1-3 Credits

Special topics in mathematics as deemed necessary by needs of students. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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MAT-211 Mathematical Tools 2- Credits

This is an introduction to MATLAB. The course will introduce students to the fundamentals, structure, and help systems of the software and will aim to give students the skills to approach mathematical problems and to explore mathematical topics.

Take MAT-215 or MAT-230. (Required, Previous or concurrent).

MAT-215 Fund & Sp Applications of Calculus Of Calculus 3- Credits

Designed for non-mathematics majors. Study of functions and their graphs, the process and techniques of differentiation and integration, and applications in the students respective fields of interest. This course satisfies the general education curriculum standards for foundational intellectual skills in quantitative reasoning.

Take MAT-215P MAT-130 MAT-140 MAT-145 BIO-205 BUS-205 PSY-205 or SOC-205. (Required, Previous).

MAT-230 Calculus and Analytic Geometry I 4- Credits

This course begins the formal study of limits, differentiability of algebraic and transcendental functions, applications of differentiation, and an introduction to integration. This course satisfies the general education curriculum standards for foundational intellectual skills in quantitative reasoning.

Take MAT-230P MAT-130 MAT-140 MAT-145 or MAT-215. (Required, Previous).

MAT-231 Calculus and Analytic Geometry II 4- Credits

Study of integration by standard forms and special methods, indeterminate forms and improper integrals, transcendental functions, analytic geometry, and polar coordinates.

Take MAT-230. (Required, Previous).

MAT-250 Problem-Solving and Intro to Proofs Proofs 3- Credits

Reading comprehension of mathematical statements, analyzing definitions and theorems, formulating conjectures and generalizations, careful and rigorous arguments. Main topics are elementary logic, techniques of proofs, functions, and combinatorial reasoning.

MAT-280 Special Topics in Mathematics 1-3 Credits

Special topics in mathematics as deemed necessary by needs of students. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

MAT-298 Directed Research 1-3 Credits

This course is designed for junior or senior student research projects or to investigate topical issues in Mathematics.

MAT-305 Calculus and Analytic Geometry III 4- Credits

Study of lines, curves, planes and surfaces by means of coordinate systems and vectors; differentiation and integration of functions of several variables; infinite series; functions represented by power series; applications.

Take MAT-231. (Required, Previous).

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MAT-310 Linear Algebra 3- Credits

Study of Matrix Theory in connection with the algebra of systems of linear equations and the geometry of vector spaces. It includes determinant, linear dependence, basis, dimension, linear transformation, Eigen values and Eigen vectors. Application in different fields will be the center of this course.

MAT-315 Differential Equations 3- Credits

Solution methods for first order equations, higher order linear equations and systems of linear equations; approximate methods of solution, and applications.
Take MAT-305. (Required, Previous).

MAT-322 Statistical Inference & Data Analysis I 3- Credits

The course will cover basic concepts of data analysis and statistical inference, applied to 1-sample and 2-sample location problems: confidence intervals, hypothesis testing, and p-values. Probability models and statistical methods will be applied to practical situations and actual data sets from various disciplines. Elementary statistical theory, including the plug-in principle, maximum likelihood, and the method of least squares will also be covered. A statistical computing package will be used.
Take MAT-231. (Required, Previous).

MAT-323 Statistical Inference & Data Analysis II 3- Credits

A continuation of MAT-322.
Take MAT-322. (Required, Previous).

MAT-330 Advanced Geometry 3- Credits

Study of Euclidean geometry, both classical and modern, finite geometries, geometric transformations and convexity. Axiomatic structure is emphasized.

MAT-331 Modern Geometries 3- Credits

An introduction to several geometries developed after 1800. Study of non-Euclidean geometries, particularly hyperbolic geometry, projective geometry, geometric topology and geometry of inversion. Axiomatic structure and invariant properties are emphasized.

MAT-335 Number Theory 3- Credits

Study of integers, their properties and relationships. Topics: representation of integers, Euclid's algorithm, the Fundamental Theorem of Arithmetic, the number-theoretic functions, Diophantine equations, congruences, residues.

MAT-350 Numerical Methods 3- Credits

An introduction to numerical algorithms essential in scientific computation. Elementary discussion of error, interpolation, quadrature, solution of non-linear equations, and systems of linear equations. Programming concepts needed for implementing numerical algorithms. Selected algorithms are implemented on a computer or programmable calculator.
Take MAT-231. (Required, Previous). | Take CST-171. (Required, Previous).

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MAT-370 Financial Mathematics 3- Credits

This is a preparatory course for Society of Actuaries Exam FM (Financial Mathematics) or Casualty Actuarial Society Exam 2. Emphasis is placed on Interest Theory.

Take MAT-231. (Required, Previous).

MAT-380 Special Topics in Mathematics 1-3 Credits

Special topics in mathematics as deemed necessary by needs of students. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

MAT-409 Topics in Discrete Mathematics 3- Credits

Treatment of topics in combinatorics and graph theory. Examples of topics from combinatorics include basic counting rules, inclusion/exclusion principle, derangements, recurrence relations, generating functions, combinatorial designs, and coding theory. Examples of topics from graph theory include graphs and digraphs, subgraphs, planar graphs, graph coloring, trees, networks, matching theory, and graph algorithms.

Take MAT-250. (Required, Previous).

MAT-422 Probability Theory 3- Credits

The course will cover probability spaces, random variables, characteristic and moment generating functions. Important discrete and continuous distributions; joint, conditional, and marginal distributions; expectation; sequences of random variables, modes of convergence, laws of large numbers, and the central limit theorem will also be covered.

Take MAT-322. (Required, Previous). | Take MAT-323. (Required, Previous). | Take MAT-305. (Required, Previous).

MAT-423 Applied Linear Models 3- Credits

This course will cover linear models, model building, prediction, testing of models, data analysis, and appropriateness of models. Simple and multiple linear regression, analysis of variance, and the design of experiments will also be covered. A statistical computing package will be used.

Take MAT-310. (Required, Previous). | Take MAT-322. (Required, Previous). | Take MAT-323. (Required, Previous or concurrent).

MAT-425 Mathematical Modeling 3- Credits

The main goal of this course is to provide opportunities for students to construct and analyze mathematical models that arise in the physical, biological and social sciences. Mathematical models are usually created in order to obtain understanding of problems and situations arising in the real world. Sometimes, the main goal is to make predictions or to control certain processes and other times models are created in order to aid in decision making.

Take MAT-315. (Required, Previous).

MAT-440 Abstract Algebra I 3- Credits

An axiomatic study of important algebraic systems, including groups, rings, fields, and vector spaces.

Take MAT-250. (Required, Previous). | Take MAT-310. (Required, Previous).

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MAT-441 Abstract Algebra II 3- Credits

A continuation of MAT-440.

Take MAT-440. (Required, Previous).

MAT-450 Real Analysis 3- Credits

A rigorous introduction to the foundations of real analysis: real numbers, sequences, limits, continuity, differentiation, integration, and series. The emphasis is on establishing and correlating the various properties rather than numerical problem solving.

Take MAT-250. (Required, Previous).

MAT-460 Internship in Mathematics 1-3 Credits

The internship in mathematics permits students to earn academic credit for work that deals with the mathematical sciences or prepares the student for graduate school. The internship is designed to integrate classroom knowledge with practical work experience in the student's chosen area of study. Students are evaluated by their on-the-job supervisor and monitoring MAT faculty member. Students also present both a written and oral summation of their experience. A minimum of four hours of actual work experience per week or 60 hours during the semester is required for each credit to be earned. Enrollment in the course is arranged after review and approval of the proposed internship by program faculty. This course may be repeated for an accumulated total of six credits. Graded S/U.

MAT-480 Special Topics in Mathematics 1-3 Credits

Special topics in mathematics as deemed necessary by needs of students. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

MAT-490 Seminar 3- Credits

Special topics designed for mathematics majors in the senior year. Historical developments in mathematics are studied. Interrelationships between mathematics and other areas of study are addressed. Integrates the general education theme and readings. Attendance at convocations required. Take 94 credits. (Required, Previous).

MAT-499 Independent Study 2-3 Credits

Options include topics in real analysis or guided readings and research. May enroll two to three credits. Take 62 credits. (Required, Previous).

MEN-320 Dynamic Systems 3- Credits

Dynamic behavior of mechanical systems: modeling, analysis techniques, and applications; vibrations of single- and multidegree- of-freedom systems; feedback control systems. Computer simulation and experimental studies of vibration and control systems. This course also includes a laboratory component that examines modeling of dynamic systems.

Take EGR-222. (Required, Previous). | Take MAT-315. (Required, Previous).

MEN-324 Mechanical Systems Modeling 3- Credits

Vector and tensor algebra and complex-variable methods; ordinary differential equations, qualitative questions of existence and uniqueness; analytic solution methods, numerical methods, power-series

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solution and special functions; eigenvalue problems, Green's functions, Laplace transforms, stability of solutions; engineering applications drawn from mechanics.

Take MAT-315. (Required, Previous). | Take EGR-365. (Required, Previous).

MEN-337 Design of Mechanisms 3- Credits

This course will introduce the fundamental principles and theory of the kinematics and dynamics of machinery. Topics include kinematics fundamentals, graphical linkage Synthesis, position analysis, analytical linkage synthesis, velocity analysis, acceleration analysis, cam design, gear Trains and dynamics fundamentals.

Take EGR-222. (Required, Previous). | Take EGR-230. (Required, Previous).

MEN-362 Heat Transfer 3- Credits

This course will introduce the principal concepts and methods of heat and mass transfer. Topics include conservation laws and rate equations, diffusion equation, 1D and 2D steady state conduction, Transient conduction, boundary layers and analogies, convections, internal and external flow, and fundamental concepts of radiation and multi model heat and mass transfer.

Take EGR-365. (Required, Previous).

MEN-401 Machine Design & Manufacturing 3- Credits

This course will introduce the fundamental understanding about designing, analyzing, manufacturing and testing of mechanical systems. Topics include machine elements, equipment design, automation and control, precision, design and manufacturing technology, and industrial management. The laboratory component associated with this course provides hands-on experience of manufacturing disciplines and practices.

Take MEN-337. (Required, Previous).

MEN-431 Experimental System Design 3- Credits

Modeling and formulation of differential equations for dynamic systems, including mechanical vibratory systems, thermal systems, fluid systems, electrical systems, and instrumentation systems. Analysis of dynamic systems and measuring devices including transient response and frequency response techniques, mechanical systems, transducers, and operational amplifiers. Consideration of readout devices and their responses to constant, transient, and steady-state sinusoidal phenomena. Calibration and data analysis techniques are introduced. Both analog and digital computation are included.

Take EGR-451. (Required, Previous).

MEN-492 Senior Design II 3- Credits

The course continues substantial design experience started in engineering senior design. This course requires students to work in small design teams to solve a significant engineering problem. Students develop, design, and implement a solution to the engineering problem in conjunction with a faculty advisor. The course reinforces principles of the engineering design process and serves as a capstone for engineering knowledge obtained in the engineering curriculum. The consideration of the ethical and social implications of technology and the basic concepts of business are also aspects of the course. Each student design team is expected to present information related to their project in both written and oral

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formats. Preliminary paper design is followed by implementation in the lab. It is expected that a complete or partially working system will be demonstrated at the end of the course.

Take EGR-490. (Required, Previous).

MGT-250 Principles of Management 3- Credits

This course is designed to present a realistic picture of the content of modern managerial challenges. It includes a study of the fundamentals of management principles and techniques for all fields of business: business objectives, policies, functions, executive leadership, organization structure and morale, operative and control procedures.

Take BUS-109. (Required, Previous).

MGT-301 Foundations of Entrepreneurship 3- Credits

This course introduces the basic elements of cash flow management and the business plan, and prepares students for the more advanced presentation of these concepts offered later in the program. Students learn the concepts of opportunity scanning and opportunity recognition. Students conduct a self-assessment to help them better understand their personal values and aspirations to help guide their entrepreneurial career. The variety of types of entrepreneurial ventures are introduced.

Take BUS-109. (Required, Previous).

MGT-302 Social Entrepreneurship 3- Credits

This course begins with an examination of the theoretical underpinnings for the social business movement in the U.S. and abroad. Students examine how the traditional areas of business within the social enterprise inform and drive mission. The tools social entrepreneurs use to tackle long standing societal issues are identified, then students apply course concepts through a collaborative analysis of an organization that addresses a social issue in the community.

Take MGT-250. (Required, Previous).

MGT-311 Sport Facility and Event Management 3- Credits

A study on how to function, in a systematic and organized manner, as a director of events in a sport facility; how to manage facility and equipment as a sport director.

MGT-325 Business Consulting: A-Team 1-3 Credits

Business Creation and Development Consulting (The A-Team) is an experiential exercise which places the student in the business environment in order to add value to an existing business. This is a project-oriented experience in which students work in teams with the principal of a business to address a business problem or opportunity. This course can be repeated; only three hours can count toward major. May count for elective business experience.

MGT-329 The Modern British Service Economy 3- Credits

Modern British Economy is an innovative course dealing with the British business community and strategic business concepts. The multidisciplinary course will compare and contrast the British economy as it exists in the United Kingdom with that of the United States as well as issues in history, political science, language, culture, and religion.

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MGT-330 Project Management 3- Credits

The field of systems analysis is explored through lectures and applications in analysis and design activities. Students are required to analyze an existing business and design improved procedures, forms, and managerial policies to enhance the firm's operational efficiency.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MGT-250 or BUS-209. (Required, Previous).

MGT-332 French Business Culture 3- Credits

See FRE-330.

Take FRE-201 or FRE-ADV. (Required, Previous).

MGT-333 German Business Culture 3- Credits

See GER-330.

Take GER-201 or GER-ADV. (Required, Previous).

MGT-334 Business Communication in Global Contexts I 3- Credits

See SPA-330.

Take SPA-201 or SPA-ADV. (Required, Previous).

MGT-350 Operations Management 3- Credits

A study of modern analytical techniques and methods employed in operations planning and control.

Topics include TQM, inventory management, MRP, and JIT.

Take MGT-250. (Required, Previous). | Take 1 courses; From rule DA.STATS. (Required, Previous).

MGT-351 Human Resources Management 3- Credits

A study of the objectives, organization, policies and activities in typical human resource programs and of the problems encountered in their effective administration. Topics include recruiting, selecting, placing, training, safety, health employee services, wage and hours administration, labor-management relations and personnel research.

Take 30 credits. (Required, Previous).

MGT-352 Organizational Behavior 3- Credits

A study of the nature of behavior in organizations as a function of the individual, the groups within which an employee interacts, and the organizational setting. Emphasis on applications of behavioral science concepts and findings to individual behavior and organizational performance.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MGT-250. (Required, Previous).

MGT-358 Employment Law 3- Credits

A study of the multiple legal issues faced by managers in the modern workplace, beginning with a survey of basic legal terminology and institutions, followed by a discussion of employment relationships, labor unions and collective bargaining, case law impacting contemporary concerns such as ADA, ADEA, FMLA, OSHA worker's compensation, Title VII of the Civil Rights Act, employment at will, wrongful termination and reduction-in-force, workplace violence, risk analysis and insurance coverage, unfair competition

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issues, privacy and the electronic workplace, preventative law and compliance policies, alien workers, and the Foreign Corrupt Practices Act.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MGT-250. (Required, Previous). | Take BUS-301. (Required, Previous).

MGT-361 Talent Management 3- Credits

A comprehensive approach to the acquisition, staffing, selection and development of employees within an organization. This course integrates the use and value of technology in recruitment, staffing, selection, social media, organization entry, socialization, performance management, training, career development, skills enhancement, succession planning and retention strategies. Course may count for elective business experience.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MGT-250. (Required, Previous).

MGT-362 Compensation and Benefits 3- Credits

This course places emphasis on applications, concepts, management and theory of pay practices, benefit programs, and human capital cost-effectiveness. The course concludes with an introduction to human resource auditing.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MGT-250. (Required, Previous).

MGT-363 Global Human Resources 3- Credits

A study of theories, approaches and processes to managing people in a global context. Examines the challenges of cross-cultural and diverse workforces from the variables that confront domestic and global human resource management. Elements of global human resources are discussed from the perspective of the organizational context (e.g. host-country national) which includes strategic management; human capital utilization (recruitment and planning); talent management (training and development and performance management); total rewards (compensation and benefits); regulatory compliance, industrial relations and risk management (safety).

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MGT-250. (Required, Previous).

MGT-372 Creativity and Change 3- Credits

This course acquaints students with theories and strategies for exercising the creative process. Leadership and change are also examined to help the students understand how to effectively introduce and implement new and creative ideas.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MGT-250. (Required, Previous).

MGT-379 Business Management: Cases & Application 3- Credits

Business management cases and the case method is a powerful strategy of instruction and student individual and team learning. Emphasis is placed on the implications and applications of business concepts through real-world business cases and/or cases designed to be similar. Using an effective and efficient case study process, students will work in teams to identify, analyze, propose alternatives and recommend a justifiable solution of issues and problems faced in business. Student presentation, team and communication skills are assessed in the course's final business case competition judged by professionals. This final case competition is modeled after state and national student case competitions. Course may count for elective business experience.

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Take MGT-350 or MGT-351. (Required, Previous).

MGT-395 Applied Managerial Decision Making 3- Credits

Students acquire an understanding of and an appreciation for the challenges faced by managers when confronted with personal and competitive decision-making situations in their roles as leaders, team members and business professionals. Decision-making concepts and theoretical models are introduced along with discussions of management literature, current events and business cases. Students make strategic and operational decisions while participating in a competitive business simulation.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MGT-250. (Required, Previous).

MGT-430 Strategic Leadership 3- Credits

Designed as the capstone course in management, Strategic Leadership identifies and develops various attributes commonly associated with effective leadership in business. A combination of study and application provide opportunities for students to develop the skills necessary to navigate challenges that arise as managers interact with stakeholders to achieve the goals of the firm.

Take 2 courses; From courses MGT-301 MGT-302 MGT-311 MGT-325 MGT-329 MGT-330 MGT-332 MGT-333 MGT-334 MGT-350 MGT-351 MGT-352 MGT-358 MGT-361 MGT-362 MGT-363 MGT-372 MGT-395 MGT-379 MGT-395 MGT-430 MGT-450. (Required, Previous). | Take 1 courses; From rule

MGT-450 International Business 3- Credits

A course designed to study the present and future implications of international trade and its economic impact on the United States. Emphasis is placed on the analysis of case studies and current affairs in the context of international business.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MGT-250. (Required, Previous).

MKT-202 Applications in Visual Design 3- Credits

This course will allow students to acquire and practice basic design techniques used in digital marketing. Students will learn how to use tools such as Adobe Photoshop and InDesign for application in social graphics, website design, and promotional materials. Topics include typography, design principles, and image manipulation and layout.

MKT-205 Digital Media 1- Credits

In this course, students create and manage content for the Byrum School digital media channels. Enhancement courses, such as MKT205, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

Take BUS-109. (Required, Previous).

MKT-240 Principles of Marketing 3- Credits

A study of the process of planning and implementing the business activities that facilitate and expedite development of satisfying exchange relationships through the creation, distribution, promotion, and pricing of goods, services and ideas.

Take BUS-109. (Required, Previous).

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MKT-280 Special Topics in Marketing 1-4 Credits

Selected topics of interest in the field of Marketing. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

MKT-301 New Media Marketing 3- Credits

This course is designed to teach and expose students to emerging digital media's role in business marketing. Students will learn to create a digital media plan and business related social media sites (such as blogs, Facebook, LinkedIn), perform media plan analytics, and discuss legal aspects of digital media marketing.

Take MKT-240. (Required, Previous).

MKT-305 Business Research Methods 3- Credits

Students prepare a research paper applying statistical methods to real-world applications.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MKT-240. (Required, Previous).

MKT-338 Global Marketing 3- Credits

A study of world markets and the legal, economic, and cultural conditions influencing marketing abroad. Examines the marketing issues required to identify and evaluate the product, price, promotion, and distribution demands in global markets. Elements of an international marketing plan are discussed and developed.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MKT-240. (Required, Previous).

MKT-341 Promotion 3- Credits

A study of the elements of the promotion mix from a managerial perspective. Topics include developing objectives used by firms to advance their products, promotional positioning and advertiser roles, strengths and weaknesses of advertising media and forms of publicity, roles of salespersons in personal selling, and types of sales promotion and reasons for their use.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MKT-240. (Required, Previous).

MKT-342 Selling and Sales Management 3- Credits

A study of the management of the selling function, including sales communications, theories of motivation, ethical and legal issues in the selling profession, the organizational buying process, and the elements of personal selling. Students demonstrate individual sales proficiency through case study presentations and role plays.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take BUS-209 or MKT-240. (Required, Previous).

MKT-344 Marketing Research 3- Credits

A study of the nature and scope of marketing research and its applications to marketing management. The course provides an overview of the primary uses of marketing research along with a review of the various tools and techniques of marketing research. The student learns how to apply the basic marketing research principles in decision making and planning through study materials and projects.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take BUS-209 or MKT-240. (Required, Previous).

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MKT-345 Event Planning & Mgmt 3- Credits

This course will expose students to the strategies and skills that are required when planning and managing events through an event planning experience with an organization. This course will focus on event logistics, venue selection, contracting, event marketing, and the management and analysis of small and large scale corporate and community events, including sports event and trade show exhibit operations. This course will also explore the requirements of event planning as a profession and focus on the core characteristics of a successful event marketing manager.

Take MKT-240. (Required, Previous).

MKT-348 Sport Marketing and Sponsorship 3- Credits

A comprehensive study of marketing and sponsorship as it relates to the sport industry. This course is designed to provide the sport manager with an overview of the sport industry with emphasis on: defining sport marketing principles as they apply to the sport industry; understanding consumer behavior, media relations, public relations, publicity, sales and distribution, and sponsorship within the sports world. Emphasis will be placed on practical experience conceptualizing, designing and presenting a sport marketing plan, and a sponsorship proposal packet.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MKT-240. (Required, Previous).

MKT-366 Strategic Communication Project 3- Credits

See COM-365.

Take 30 credits. (Required, Previous).

MKT-374 Sales Technology & Analytics 3- Credits

This course covers concepts, technologies, and analytics as they apply to business-to-business selling and sales management. Topics include technology as it applies to sales presentations, customer relationship management (CRM), predictive analytics and reporting tools for campaign effectiveness, digital call report analysis, pipeline analysis, customer lifetime value, and forecasting. Artificial intelligence and its role in supporting the sales function is introduced, along with ethical issues related to big data.

Take MKT-240. (Required, Previous).

MKT-380 Special Topics in Marketing 1-3 Credits

Selected topics of interest in the field of marketing. See course section comments for description.

Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

MKT-442 Advanced Professional Selling 3- Credits

This course will provide an in-depth study of advanced sales practices and sales force strategy. Students will learn about creating a customer-focused value proposition, the multi-person buying center, team-selling, key account management, and multi-channel sales strategy. Videotaped role plays, presentations, and participation at regional/national sales competitions motivate learning beyond the classroom setting.

Take MKT-342. (Required, Previous).

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MKT-444 Negotiation 3- Credits

Exposure to the concepts of negotiations in both the U.S. and global business environments including negotiation strategies and tactics, influence, third-party intervention, audience effects, nonverbal communication, and ethical and cultural aspects. Case studies and simulations will be used throughout the course.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MKT-240. (Required, Previous).

MKT-445 Marketing Cases and Competitions 3- Credits

This course encompasses intensive investigation of the special problems involved in developing campaign concepts. Students will develop a marketing strategy using competitions in the field of marketing to determine client, budget and campaign objectives. The fully developed and designed marketing campaign will be ready to present to a panel of industry executives at designated conferences either in-person or online, as determined by the competition. Course may be repeated multiple times for credit.

Take MKT-240. (Required, Previous).

MKT-446 Strategic Marketing 3- Credits

This is the upper level capstone marketing course. This course combines the introductory and mid-level marketing principles and planning coursework into long-term strategic level review. The course addresses the analysis of long-term company vision and marketing opportunities, the review of marketing case studies, the strategy of marketing programs, and the challenges confronted in international marketing. The emphasis of the course is on critical business thinking, planning, and actions.

Take 2 courses; From Subjects MKT BUS; From Level 300. (Required, Previous). | Take 1 courses; From rule DA.STATS. (Required, Previous). | Take MKT-240. (Required, Previous).

MUL-100 Trumpet 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-101 Baritone 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-102 French Horn 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

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MUL-103 Trombone 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-104 Bass Trombone 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-105 Tuba 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-115 Piano 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-116 Organ 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for one to two credits. Fee required.

MUL-117 Harpsichord 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-125 Class Piano I 0.5-1 Credits

First semester of a three semester sequence designed to develop basic keyboard and musicianship skills including technic, sight reading, harmonization, accompaniment, theory, and piano repertoire in preparation for the piano proficiency exam.

MUL-126 Class Piano II 0.5-1 Credits

This class is the second semester of a three semester sequence designed to develop keyboard and musicianship skills, including fundamental technic, scale playing, sight reading, harmonization, transposition, ensemble playing, accompaniment, and piano repertoire. The course is intended to assist

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students in passing the piano proficiency examination. At the end of the semester, students may elect to take the piano proficiency examination. Students who are not sufficiently prepared to take the exam, or who do not pass the exam, may take MUL-225 Class Piano III. (SEM)

MUL-130 Percussion 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-145 Violin 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-146 Viola 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-147 Violoncello 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-148 Contrabass 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-149 Harp 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-150 Guitar 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits

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toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-152 Electric Bass 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-161 Voice 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-171 Voice Class 0.5-1 Credits

Singing is an activity that can enrich one's life both musically and socially. The more one develops musical skills, the more one is capable of truly understanding the depth, beauty, and tremendous power that the world of music and singing has to offer. The student will learn techniques in proper posture, breath control and tone placement. This aspect of the study will be achieved through singing scales and other vocal exercises. The student will develop the skills of music reading and sight singing. The student will explore vocal music of the Renaissance, Baroque, Classical, Romantic and Contemporary periods. We will begin our studies with songs in English. In time we will include songs in Italian, Latin, and possibly German. The student will also learn how to develop and use subtext to enhance the emotional impact of their performance. To refine these skills, we will explore the repertoire of British and American art song and the American Musical Theatre tradition.

MUL-174 Flute 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-175 Clarinet 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-176 Saxophone 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

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MUL-177 Oboe 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-179 Bassoon 0.5-1 Credits

Open to all majors, 100-level private lessons are designed as an enhancement course, and may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-200 Trumpet 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-201 Baritone 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-202 French Horn 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-203 Trombone 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-204 Bass Trombone 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-205 Tuba 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

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MUL-215 Piano 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-216 Organ 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-217 Harpsichord 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-225 Class Piano III 0.5-1 Credits

This is the third semester of a three semester sequence designed to develop keyboard and musicianship skills, including fundamental technic, scale and chord playing, sight reading, harmonization, transposition, four part reading, accompaniment, piano repertoire, and open score reading. The course is intended to assist students in passing the piano proficiency examination. Students who are not sufficiently prepared to take the exam, or who do not pass the exam, may repeat MUS-225.

MUL-226 Class Piano IV 0.5-1 Credits

This is the fourth semester of a four semester sequence is designed to continue developing keyboard and musicianship skills, including fundamental technique, scale and chord playing, sight reading, harmonization, improvisation, transposition, four part reading, accompaniment, piano repertoire, and open score reading.

Take MUL-225. (Required, Previous).

MUL-230 Percussion 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-245 Violin 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-246 Viola 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

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MUL-247 Violoncello 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-248 Contrabass 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-249 Harp 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-250 Guitar 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-252 Electric Bass 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-261 Voice 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-271 Voice Class 0.5-1 Credits

Singing is an activity that can enrich one's life both musically and socially. The more one develops musical skills, the more one is capable of truly understanding the depth, beauty, and tremendous power that the world of music and singing has to offer. The student will learn techniques in proper posture, breath control and tone placement. This aspect of the study will be achieved through singing scales and other vocal exercises. The student will develop the skills of music reading and sight singing. The student will explore vocal music of the Renaissance, Baroque, Classical, Romantic and Contemporary periods. We will begin our studies with songs in English. In time we will include songs in Italian, Latin, and possibly German. The student will also learn how to develop and use subtext to enhance the emotional impact of their performance. To refine these skills, we will explore the repertoire of British and American art song and the American Musical Theatre tradition.

MUL-274 Flute 0.5-1 Credits

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Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-275 Clarinet 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-276 Saxophone 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-277 Oboe 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-279 Bassoon 0.5-1 Credits

Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. May be repeated for credit. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-304 Bass Trombone 0.5-1 Credits

Open to music majors only, 300-level private lessons are for students preparing a junior recital. May be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-371 Voice Class 0.5-1 Credits

Singing is an activity that can enrich one's life both musically and socially. The more one develops musical skills, the more one is capable of truly understanding the depth, beauty, and tremendous power that the world of music and singing has to offer. The student will learn techniques in proper posture, breath control and tone placement. This aspect of the study will be achieved through singing scales and other vocal exercises. The student will develop the skills of music reading and sight singing. The student will explore vocal music of the Renaissance, Baroque, Classical, Romantic and Contemporary periods. We will begin our studies with songs in English. In time we will include songs in Italian, Latin, and possibly German. The student will also learn how to develop and use subtext to enhance the emotional impact of their performance. To refine these skills, we will explore the repertoire of British and American art song and the American Musical Theatre tradition.

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MUL-404 Bass Trombone 0.5-1 Credits

Open to music majors only, 400-level private lessons are for students preparing a senior recital. May be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Student may enroll for half to one credit. Fee required. Registration takes place within the music department.

MUL-471 Voice Class 0.5-1 Credits

Singing is an activity that can enrich one's life both musically and socially. The more one develops musical skills, the more one is capable of truly understanding the depth, beauty, and tremendous power that the world of music and singing has to offer. The student will learn techniques in proper posture, breath control and tone placement. This aspect of the study will be achieved through singing scales and other vocal exercises. The student will develop the skills of music reading and sight singing. The student will explore vocal music of the Renaissance, Baroque, Classical, Romantic and Contemporary periods. We will begin our studies with songs in English. In time we will include songs in Italian, Latin, and possibly German. The student will also learn how to develop and use subtext to enhance the emotional impact of their performance. To refine these skills, we will explore the repertoire of British and American art song and the American Musical Theatre tradition.

MUS-101 Chamber Singers 0.5-1 Credits

A small mixed vocal ensemble open to men and women who qualify by audition. Non-music majors are welcome to audition and participate. Enhancement courses, such as MUS 101, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Fee required.

MUS-102 University Choir 0.5-1 Credits

A large mixed vocal ensemble open to men and women who qualify by audition. All students at Marian University are welcome to audition and participate in this group. Enhancement courses, such as MUS 102, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

MUS-103 University Band 0.5-1 Credits

The University Band is made up of students in any major with any amount of experience in band. The course focuses heavily on marching band earlier in the fall semester and gradually shifts toward a heavy focus on concert band by the end of the semester. The marching band performs at Marian University football games, other athletic events, parades, and high school marching festivals and competitions. The wind ensemble eventually takes over the same time block, starting with one rehearsal a week in September, and growing to three or four rehearsals a week (less marching band) by December. Most of the information presented in this course is directly related to performance preparation. Enhancement courses, such as MUS-103, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

MUS-103L University Band Lab - Credits

MUS-103 lab for non-majors only.

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MUS-104 Brass Ensemble 0.5-1 Credits

A small brass ensemble open to all students who qualify by audition. Enhancement courses, such as MUS 104, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Fee required.

MUS-105 Percussion Ensemble 0.5-1 Credits

Open to all students by audition. This small percussion ensemble will rehearse and perform different styles of music including ethnic, classical, rock, jazz, contemporary, and ragtime. Enhancement courses, such as MUS 105, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Fee required.

MUS-107 Jazz Band 0.5-1 Credits

Open to all students by audition. This course will explore and perform music from the realm of classic American jazz, contemporary jazz, and studio music. Enhancement courses, such as MUS 107, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Fee required.

MUS-108 Sacred Choir 0.5-1 Credits

A mixed vocal ensemble open to men and women who qualify by audition. Non-music majors and people of all faiths are welcome to audition and participate. This choir performs sacred music only, and sings at all school liturgies as well as occasional outreach performances. In addition, each member is required to sing twice per month at a Marian University Sunday liturgy. Enhancement courses, such as MUS-108, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

MUS-108L Sacred Choir Lab - Credits

MUS-108 lab for non-majors only.

MUS-109 String Ensemble 0.5-1 Credits

This course offers instruction on violin, viola, cello, and string bass instruments with a focus on the skills necessary for long-term success. Enhancement courses, such as MUS 109, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

MUS-120 Music Fundamentals 3- Credits

An integrated exploration of the fundamentals of music. Students will learn the elements of musical construction and methods by which those elements blend to create a coherent musical expression. Elements of classical, folk, and popular music will be explored. Recommended for non-majors and music majors and minors seeking to establish a foundation of skills before enrolling in Music Theory I.

MUS-125 Theory I 3- Credits

Integrated courses including written and keyboard harmony, sight singing and dictation, designed to build a framework of understanding for the materials and structure of music. Fee required. Take MUS-166. (Required, Concurrent).

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MUS-126 Theory II 3- Credits

A continuation of MUS-125. Fee required.

Take MUS-125. (Required, Previous). | Take MUS-167. (Required, Concurrent).

MUS-127 Appreciation of Music 3- Credits

Study of the elements and principles of music necessary for intelligent listening and appreciation.

Surveys the chief developments of music history, the works of master composers, folk music, and trends in contemporary music.

MUS-129 Guitar Class 1- Credits

This course is designed to prepare beginner and intermediate guitar players to read, perform, and compose music with the guitar. Students in this course will learn together in a group setting. All students must provide their own guitar. Enhancement courses, such as MUS 129, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

MUS-140 Global Music 3- Credits

As the voice of society, music echoes ideology, behavior, rituals, values, aesthetics, and history. This course will explore why music serves as a universal language of harmony, a regional declaration of individuality, and an unsurpassed vehicle for cross-cultural communication. No prior music experience or training is required.

MUS-143 Musical Theatre Dance Techniques 2- Credits

See THE-143.

MUS-158 World Drumming Ensemble 0.5-1 Credits

This course will explore drumming from cultures around the world. Through rehearsals and performances, students will learn various styles of African drumming, Latin percussion and Afro-Cuban drumming, Brazilian drumming, and other world percussion techniques at the discretion of the instructor. The class will perform at least one concert to demonstrate the various styles learned during the semester. Enhancement courses, such as MUS 158, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

MUS-166 Aural Skills I 1- Credits

In-depth study and application of sight singing techniques, dictation, chord recognition, error detection, and related activities. Placement by level of experience.

MUS-167 Aural Skills II 1- Credits

Continuation of MUS 166 including more advanced sight singing, dictation, chord recognition, error detection, and related activities.

Take MUS-166. (Required, Previous).

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MUS-169 Knight Chorale 0.5-1 Credits

The Knight Chorale is a choral ensemble of mixed voices that sings a variety of genres of music ranging from medieval to popular choral literature. No audition is required for participation. Students in any major and with any experience level in the choral arts are encouraged to participate in the Knight Chorale. Performance opportunities per semester include 2 concerts, 2-3 campus outreach events and other arising performances. Enhancement courses, such as MUS 169, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

MUS-170 Woodwind Ensemble 0.5-1 Credits

A small woodwind ensemble open to all students who qualify by audition. Enhancement courses, such as MUS-170, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. Fee required.

MUS-200 Music Theatre Performance Workshop 3- Credits

This course is designed to give performance opportunities in scene development. Musical theatre, operetta, and light opera scenes are staged and presented in review format. If possible, small cast music theatre works are performed in their entirety. This applied class has different content each semester and can be taken more than once. Cross-listed as THE-225.

MUS-226 Vocal Pedagogy 2- Credits

Study of vocal production, introduction to diction and a brief survey of vocal literature.

MUS-227 Diction I 2- Credits

English, Italian and Latin for singers, choral directors, music educators and fine arts students. Students are introduced to the International Phonetic Alphabet (IPA) symbols as well as appropriate literature.

MUS-228 Diction II 2- Credits

German and French for singers, choral directors, music educators and fine arts students. Students study advanced applications of the International Phonetic Alphabet (IPA) symbols as well as appropriate literature.

MUS-231 Foundations of Jazz Pedagogy for Mus Edu 2- Credits

This course is meant to introduce all aspects of the development of jazz programs within the public and private school music curriculum for the future music educator. Students will be exposed to the history of jazz, jazz pedagogy, and an introduction on how to teach improvisation.

MUS-233 Popular Music in Contemporary Culture 3- Credits

In this course, students will examine the roles, significance and influence of music in popular culture, engage with contemporary issues, historical events and key genres in music, as well as create their own music using free computer software. In addition to providing a broad interdisciplinary perspective, the course encourages reflection on the diverse roles of popular music, including entertainment, art form, social commentary, and as a force for social change.

MUS-251 Music Technology 2- Credits

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Selected software enables the student to sequence, notate, arrange and compose at the computer. Internet sources enhance the course, serving as a tool to allow the student to collect MIDI files, tutorials, and updated information on current projects.

Take MUS-126. (Required, Previous).

MUS-252 History of Rock and Roll Music 3- Credits

The course is an examination of the birth and evolution of rock music from its roots in blues, country, and gospel to grunge, techno, and other current “alternative” styles.

MUS-254 The History of the Beatles 3- Credits

This course surveys the history, music and development of The Beatles. From 1957 until 1970, the Four Lads from Liverpool used backward recording techniques, sold millions of their recordings without touring, made a concept album and used orchestral instruments in their compositions. These are only a few of their innovations that set the stage for what rock music would become.

MUS-256 The History of Jazz 3- Credits

This course explores the history, artists, composers and music of this great American art form. We begin in New Orleans at the turn of the century and continue through its golden age in Chicago, to the New York City dance halls of the 1930s and 1940s. The evolution advances through the bebop sound of the 1940s, the cool jazz of the 1950s, and modern jazz of the 1960s.

MUS-257 Music in Catholic Worship 3- Credits

Examines the theory, history, and present practice of music as an integral part of Catholic worship. Musical examples will illustrate the variety of texts, musical forms, and musical roles that serve the liturgy with emphasis on the full, conscious, and active participation of the worshipping assembly.

MUS-261 Music Fundamentals for Classroom Teacher 3- Credits

This course is designed to help students understand music in the context of culture, society, and daily living. It provides students with opportunities to develop a broad range of critical thinking, communication, writing, and musical skills. Specifically, the course is designed to increase the future teacher's sensory musical experience through an investigation of the elements of music, the development of music literacy skills, the exploration of social instruments, and a survey of the heritage of world music.

MUS-266 Aural Skills III 1- Credits

Continuation of MUS 167 emphasizing chromatic materials, modulating lines, four-part dictation, and aural analysis.

Take MUS-167. (Required, Previous).

MUS-267 Aural Skills IV 1- Credits

Continuation of MUS 266 emphasizing advanced chromatic and twentieth-century aural materials.

Take MUS-167. (Required, Previous).

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MUS-268 History of Musical Theatre 3- Credits

A thorough survey of the history of Musical Theatre, beginning in the late eighteenth century and continuing through to Broadway and Off-Broadway today. Important trends, creators, shows, and stars will be studied, with special emphasis on the maturing of the American musical beginning with Jerome Kern. Cross-listed as THE-268.

MUS-325 Theory III 3- Credits

A continuation of the integrated theory courses on an advanced level.
Take MUS-126. (Required, Previous). | Take MUS-266. (Required, Concurrent).

MUS-326 Theory IV 3- Credits

Continuation of MUS-325.
Take MUS-325. (Required, Previous). | Take MUS-267. (Required, Concurrent).

MUS-328 Instrumental and Choral Arranging 2- Credits

A study of scoring techniques for instrumental and vocal ensembles.

MUS-330 Basic Conducting 2- Credits

Introduction to acquiring skills for vocal and instrumental direction. Basic conducting is explored along with techniques of score reading and rehearsal preparation.
Take MUS-125. (Required, Previous).

MUS-331 Percussion Teaching Methods 2- Credits

Study and pedagogy of the basic techniques of various percussion instruments K-12.

MUS-342 String Teaching Methods 2- Credits

This course is designed to teach the understanding of stringed instruments (violin, viola, cello, and bass) and general principles of string playing, as well as teaching methods for use in the beginning and intermediate instructions in the schools.

MUS-344 Woodwind Teaching Methods 2- Credits

This course is designed for music majors preparing to teach instrumental music. Students will study the basic techniques for playing and teaching the woodwind instruments.

MUS-346 Brass Teaching Methods 2- Credits

This course is designed to prepare music majors to teach fundamental brass skills in a classroom or private situation. Students will learn assembly and care techniques, develop fundamental technical skills on the instruments, and have a basic knowledge of literature for the instruments.

MUS-348 Music History I 2- Credits

This course is a survey of the history and literature of Western art and music from the Age of Antiquity through early Classical Period opera.
Take MUS-125. (Required, Previous).

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MUS-349 Music History II 2- Credits

This course is a survey of the history and literature of Western art and music from early Classical Instrumental Music through the Early 21st Century.

Take MUS-125. (Required, Previous).

MUS-350 Music History III 2- Credits

A study of the language of music and its social meanings from the 19th century to the present.

Take MUS-126. (Required, Previous).

MUS-354 Instrumental Music Methods I (2- Credits

Focuses on developing the knowledge, performances, and dispositions required of school instrumental music educators in elementary, middle school, and high school band/string settings. Topics include administration, curriculum development, literature selection, instructional planning, and teaching strategies.

MUS-355 Developing the School Marching Band 2- Credits

This course will present the basics of current and emerging instructional methods and creative techniques related to school marching bands, with an emphasis on building and developing a sustainable instrumental music program of which the marching band is a significant part.

Take MUS-126. (Required, Previous).

MUS-356 Choral Music Methods I 2- Credits

Focuses on developing the knowledge, performances, and dispositions required of school choral music educators in elementary and middle school settings. Topics include administration, curriculum development, literature selection, instructional planning, and teaching strategies.

MUS-357 Liturgical Music Preparation 3- Credits

This course provides an overview of many different styles and types of liturgical music used in parishes today. Students will receive practical experience in the preparation of music for the mass and other liturgical events.

Take MUS-257. (Required, Previous).

MUS-373 Specialized Approaches to Vocal & Genera 2- Credits

A capstone course for Vocal-General majors and is intended to be taken just prior to the student teaching experience. Emphasis is placed on refining and expanding special techniques associated with general music and secondary choral music settings. The general portion will include an in-depth focus on the approaches of Orff, Kodaly, and CMP. The choral experience will focus on working with vocal jazz ensembles, madrigals, show choirs, and directing musicals. Both areas will offer the student significant opportunities for performance based assessment, and peer teachings.

MUS-375 Instrumental Music Methods II 2- Credits

Focuses on developing the knowledge, performances, and dispositions required of school instrumental music educators in elementary, middle school, and high school band settings. Topics include

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administration, curriculum development, literature selection, instructional planning, and teaching strategies. This course will include a lab band.

MUS-376 Choral Music Methods II 2- Credits

Focuses on developing the knowledge, performances, and dispositions required of school choral music educators in the high school setting. Topics include administration, curriculum development, literature selection, instructional planning, and teaching strategies.

Take MUS-356. (Required, Previous).

MUS-380 Special Topics in Music Literature/Performance Skills 2-3 Credits

A study in a concentrated area of music literature such as jazz, composition or a topic related to performance skills. The topic is selected by the music faculty according to the needs and interests of the students. May be offered for two or three credits. See course section comments for description.

Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

MUS-430 Advanced Conducting 2- Credits

Prerequisite: 330. A practical application of basic conducting techniques along with the study and implementation of advanced techniques.

Take MUS-330. (Required, Previous).

MUS-461 Contemporary Issues Music Education 2- Credits

Observation and application of specialized music teaching techniques and curricular issues in ensemble and small group settings. Emphasizes performance-based assessment, classroom management, continued portfolio development, cooperative learning strategies, reflective evaluation, and critical thinking skills. A weekly seminar includes music classroom application of universal design for learning, strategies for English language learners, reading in the content area, and special needs accommodations in the music classroom. Students enrolled in MUS 461 MUST have completed ALL music education method courses with a minimum grade of C. Be reminded that junior standing on your primary instrument MUST be achieved in order to be eligible for student teaching, you must have passed your upper divisional.

MUS-490 Music Seminar 3- Credits

In this capstone course, students pursue advanced studies which utilize and reinforce knowledge and abilities gained. The topics vary according to the course of study of the student (vocal or instrumental music performance, vocal or instrumental music education). As a final integration of general education goals with the major, a common college theme is incorporated into the seminar. Attendance at convocations required.

MUS-499 Independent Study 2-3 Credits

Guided readings and research. May enroll for two to three credits.

NSG-129 Nursing Concepts and Connections 1- Credits

Open to nursing majors only. This course introduces concepts of nursing and their relationship to professional nursing practice.

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NSG-201 Health Assessment and Communication 4- Credits

This course introduces students to the knowledge, skills and attitudes needed to care for individuals across the lifespan. Students will demonstrate holistic nursing assessment, therapeutic communication skills and interprofessional collaboration in patient-centered care.

NSG-201C Health Assessment and Communication Clinical - Credits

NSG-201 clinical. For the campus based nursing students: Clinical schedule is subject to change to due clinical site availability and student enrollment. Students may be moved from their preferred clinical day as needed based on registration date and time stamp. Students will be notified of any changes prior to the start of the semester.

Take NSG-201. (Required, Concurrent).

NSG-211 Pathophysiology 3- Credits

This course systematically focuses on etiologic factors and their impact on the structure, function and adaptive capabilities of cells, tissues and organs in the human body. A variety of disease processes and their unique clinical manifestations including laboratory diagnostics are studied in detail. This course prepares the student with the pathophysiological foundation required to provide nursing care.

Take BIO-214. (Recommended, Previous or concurrent). | Take BIO-225. (Recommended, Previous or concurrent). | Take BIO-226. (Recommended, Previous or concurrent). | Take CHE-100. (Recommended, Previous or concurrent).

NSG-221 Community Health Concepts 2- Credits

This course focuses on the core knowledge, skills and attitudes of community health nursing as applied to individuals, families, communities and populations. This course prepares the student with the theoretical foundation required to provide community-based and community-oriented nursing care.

NSG-241 Fundamentals 4- Credits

This course prepares the student with the knowledge, skills, attitudes and foundational nursing concepts needed to provide evidence-based, patient-centered care in a variety of healthcare settings. Students will provide nursing care in a clinical setting.

Take NSG-201. (Required, Previous or concurrent). | Take NSG-251. (Required, Previous or concurrent). | Take NSG-211. (Required, Previous or concurrent). | Take NSG-221. (Required, Previous or concurrent).

NSG-241C Fundamentals Clinical - Credits

NSG-241 clinical. For the campus based nursing students: Clinical schedule is subject to change to due clinical site availability and student enrollment. Students may be moved from their preferred clinical day as needed based on registration date and time stamp. Students will be notified of any changes prior to the start of the semester.

Take NSG-241. (Required, Concurrent).

NSG-251 Pharmacology and Dosage With Lab I 4- Credits

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This course provides the student with the knowledge of pharmacology, dosage calculation and nursing knowledge, skills and attitudes required to safely administer selected medications. Simulation and laboratory experience will be incorporated into the course.

Take NSG-201. (Required, Previous or concurrent). | Take NSG-241. (Required, Previous or concurrent). | Take NSG-211. (Required, Previous or concurrent). | Take NSG-221. (Required, Previous or concurrent).

NSG-251L Pharmacology and Dosage Lab - Credits

NSG-251 lab.

Take NSG-251. (Required, Concurrent).

NSG-307 Care of the Childbearing Client in Community 3- Credits

This course uses the nursing process as a framework and prepares students with the knowledge, skills and attitudes to provide evidence-based, family-centered nursing care for childbearing women

Take NSG-241. (Required, Previous). | Take NSG-251. (Required, Previous). | Take PSY-220 or ELC-BACH. (Required, Previous). | Take NSG-335. (Required, Previous).

NSG-307C Care of the Childbearing Client Clinical - Credits

NSG-307 clinical. For the campus based nursing students: Clinical schedule is subject to change to due clinical site availability and student enrollment. Students may be moved from their preferred clinical day as needed based on registration date and time stamp. Students will be notified of any changes prior to the start of the semester

Take NSG-307. (Required, Concurrent).

NSG-310 Legal and Ethical Aspects of Health Care 2- Credits

Open to all majors. This course focuses on the legal and ethical aspects affecting health care. Topics include legal/ethical rights and responsibilities, court decisions, theories and principles of bioethics, various dilemmas with ethical and legal ramifications, and current trends. This course is offered only in the MAP program.

Take NSG-328. (Required, Previous).

NSG-317 Care of the Pediatric Client in Community 3- Credits

This course uses the nursing process as a framework and prepares students with the knowledge, skills and attitudes to provide evidence-based, family-centered nursing care for children.

Take NSG-241. (Required, Previous). | Take NSG-251. (Required, Previous). | Take PSY-220 or ELC-BACH. (Required, Previous). | Take NSG-331. (Required, Previous). | Take NSG-335. (Required, Previous).

NSG-317C Care of the Pediatric Client Clinical - Credits

NSG-317 clinical. For the campus based nursing students: Clinical schedule is subject to change to due clinical site availability and student enrollment. Students may be moved from their preferred clinical day as needed based on registration date and time stamp. Students will be notified of any changes prior to the start of the semester.

Take NSG-317. (Required, Concurrent).

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NSG-328 Nursing Seminar 3- Credits

This course focuses on the transition of the associate and diploma nurse to bachelor nursing practice. Nursing theories provide the framework for discussion of professional practice. Topics for discussion include advanced practice roles, graduate education, selected ethical/legal issues, health care economics, and the role of nursing in the legislative/political process. Current trends and issues in nursing are explored. This course is offered only in the MAP program.

NSG-331 Care of the Adult in Comm/Acute Care Settings I 5- Credits

This course provides the knowledge, skills and attitudes to provide health promotion and nursing management of select disease processes for individuals through evidence-based, patient-centered care. Students utilize the nursing process to manage acute and chronic physical and psychosocial conditions in adults across a variety of healthcare settings.

Take NSG-201. (Required, Previous). | Take NSG-211. (Required, Previous). | Take NSG-221. (Required, Previous). | Take NSG-241. (Required, Previous). | Take NSG-251. (Required, Previous). | Take NSG-331C. (Recommended, Concurrent).

NSG-331C Care of the Adult in Comm/Acute Care Sett I Clinical - Credits

NSG-331 clinical. For the campus based nursing students: Clinical schedule is subject to change to due clinical site availability and student enrollment. Students may be moved from their preferred clinical day as needed based on registration date and time stamp. Students will be notified of any changes prior to the start of the semester.

Take NSG-331. (Required, Concurrent).

NSG-335 Mental Health Nursing 4- Credits

This course uses the nursing process as a framework and prepares students with the knowledge, skills and attitudes to provide evidence-based nursing care of the patient with mental health illness and comorbid conditions to support optimal wellness. Students will utilize therapeutic communication skills in the delivery of care for patients within the clinical milieu.

Take NSG-201. (Required, Previous). | Take NSG-211. (Required, Previous). | Take NSG-221. (Required, Previous). | Take NSG-241. (Required, Previous). | Take NSG-251. (Required, Previous). | Take PSY-230 or ELC-BACH. (Required, Previous). | Take NSG-335C.

NSG-335C Mental Health Nursing Clinical - Credits

NSG-335 clinical. For the campus based nursing students: Clinical schedule is subject to change to due clinical site availability and student enrollment. Students may be moved from their preferred clinical day as needed based on registration date and time stamp. Students will be notified of any changes prior to the start of the semester

Take NSG-335. (Required, Concurrent).

NSG-343 Research and Informatics 3- Credits

This course provides an introduction to nursing research, clinical informatics and new technologies. Students will develop the knowledge, skills and attitudes needed to investigate, interpret and translate nursing and biomedical research, as well as other sources of biomedical information. This course fulfills the writing-intensive course requirement for majors in Nursing.

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Take PSY-205 or BUS-205. (Required, Previous).

NSG-360 Internship in Nursing 2- Credits

An approved internship in the field of nursing.

NSG-410 Gerontological Issues in Health Care 2- Credits

This course focuses on the physical, psychological, and social challenges faced by older adults. Topics include demographic shifts, the normal aspects of aging, functional assessment of activities of daily living and cognition, safety issues, polypharmacy, loss, elder abuse, and community resources. This course is offered only in the MAP program.

Take NSG-328. (Required, Previous).

NSG-418 Service in Global/Local Communities 3- Credits

Open to all majors. This course focuses on cross-cultural healthcare missions/service. A local or overseas field experience is required. The course partially satisfies the general education requirement in the cultural awareness general education requirement. This course partially satisfies the San Damiano requirements.

Take 62 credits. (Required, Previous).

NSG-421 Integrative Health Practices 2- Credits

This course examines holistic nursing and integrative health care practices. Topics may include acupuncture, homeopathics, therapeutic touch, music therapy, meditation, aromatherapy, and current trends.

NSG-422 Population Health 2- Credits

The focus of the course is to synthesize knowledge of nursing and community health nursing concepts to population health. Exploring the ways in which culture, health disparity, transitions between care environments, health policy, and the "social determinates of health" impact the health of everyone living in a community. Emphasizing an interdisciplinary approach in an effort to promote, maintain and restore health in the community across environments, as well as across the lifespan.

Take NSG-431. (Required, Previous). | Take NSG-441. (Required, Concurrent).

NSG-422C Population Health Clinical Prof Clinical - Credits

NSG-422 clinical. For the campus based nursing students: Clinical schedule is subject to change to due clinical site availability and student enrollment. Students may be moved from their preferred clinical day as needed based on registration date and time stamp. Students will be notified of any changes prior to the start of the semester.

Take NSG-422. (Required, Concurrent).

NSG-425 Holistic Self-Care 2- Credits

Open to all majors. The purpose of the course is to recognize the relationship between personal health, self-renewal, and the ability to deliver sustained quality care. A holistic approach emphasizing nutrition, exercise, spiritual, and emotional health which empowers and inspires one to make a difference in one's own life in order to effectively care for others.

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NSG-427 Bereavement and End of Life Care 2- Credits

This course provides the student with knowledge to assist the patient, family, and other healthcare professionals addressing issues related to bereavement and end of life care. This course partially satisfies the San Damiano requirements.

Take NSG-201. (Required, Previous). | Take NSG-211. (Required, Previous). | Take NSG-221. (Required, Previous). | Take NSG-241. (Required, Previous). | Take NSG-251. (Required, Previous).

NSG-429 Care of the Critically Ill 3- Credits

This course focuses on the acute care of the critically ill patient. Emphasis is placed on the nursing process in the critical care environment. Clinical opportunities are available in selected critical care settings

Take NSG-331. (Required, Previous).

NSG-430 Caring and Healing Through the Arts in Nursing 3- Credits

This course provides an opportunity for students to study the concepts and principles of art and science essential for caring, healing and self-discovery. Students will explore works of art, storytelling, art in the health care setting, healing gardens and sacred spaces through the dual lens of the nurse and the patient. Students will participate in field trips, self-guided tours, reflective journaling and creative expression.

Take NSG-241. (Required, Previous).

NSG-431 Care of the Adult in Comm/Acute Care Settings II 5- Credits

This course provides the knowledge, skills and attitudes to provide health promotion and nursing management of increasingly complex disease processes for individuals through evidence-based, patient-centered care. Students utilize the nursing process to manage acute and chronic physical and psychosocial conditions in adults across a variety of healthcare settings.

Take NSG-331. (Required, Previous).

NSG-431C Care of the Adult in Comm/Acute Care Set II Clinical - Credits

NSG-431 clinical. For the campus based nursing students: Clinical schedule is subject to change to due clinical site availability and student enrollment. Students may be moved from their preferred clinical day as needed based on registration date and time stamp. Students will be notified of any changes prior to the start of the semester.

Take NSG-431. (Required, Concurrent).

NSG-435 Spirituality in Healthcare 2- Credits

Open to all majors.. This course focuses on the spiritual aspects related to healthcare across the lifespan. Professional, ethical, and legal aspects are explored. The stages of spiritual development and implication of appropriate spiritual care provide a basis for understanding the spiritual dimension of healthcare. This course partially satisfies the San Damiano requirements.

NSG-441 Leadership/Community in the Nursing Profession 4- Credits

This course addresses leadership and management concepts in professional nursing. Students will apply nursing knowledge, skills and attitudes necessary to deliver care in a variety of health care settings.

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Take NSG-422. (Required, Concurrent).

NSG-441C Leadership/Community in the Nursing Prof Clinical - Credits

NSG-441 clinical. For the campus based nursing students: Clinical schedule is subject to change to due clinical site availability and student enrollment. Students may be moved from their preferred clinical day as needed based on registration date and time stamp. Students will be notified of any changes prior to the start of the semester.

Take NSG-441. (Required, Concurrent).

NSG-445 Global Women's Health Issues 2- Credits

Open to all majors. This course examines the health issues of women in the twenty-first century. Physical, emotional, and social influences are identified. Major health issues of women such as heart disease, HIV/AIDS, depression, abuse, midlife changes, and aging are included. International Health Policies (IHP) as they relate to women's health will be scrutinized. This course partially satisfies the cultural awareness general education requirement.

NSG-450 Community Health Nursing 4- Credits

The focus of the course is to synthesize knowledge of nursing concepts as applied to individuals, family, and community. The nursing process is used to promote, maintain, and restore health in the community across environments, as well as provide healthcare that is sensitive to the needs of vulnerable populations across the lifespan. Management of direct and indirect care of socio-culturally diverse clients and aggregates is emphasized as well as application of research findings in the practice of community health nursing. Two lecture hours per week and 90 clinical hours per semester. This course is offered only in the MAP program.

Take NSG-328. (Required, Previous).

NSG-451 Clinical Immersion Experience 5- Credits

This course provides an opportunity to apply nursing knowledge, skills and attitudes in a clinical immersion experience. Additional knowledge acquisition will be complemented by simulation and seminar activities.

Take NSG-431. (Required, Previous).

NSG-451C Clinical Immersion Experience Clinical - Credits

NSG-451 clinical.

Take NSG-451. (Required, Concurrent).

NSG-478 Foundations of Faith Community Nursing 3- Credits

Open to second semester senior Nursing majors only. This course provides the foundations of faith community nursing (FCN). FCN is a specialty nursing practice combining professional nursing and health ministry. The emphasis is on health and healing within the faith community and community at large. The four major concepts will be covered including; spiritual dimension, professionalism, holistic health and community. This course meets the requirements of the core curriculum established by the Westberg Institute. This course partially satisfies the San Damiano requirements.

Take 94 credits. (Required, Previous).

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NSG-480 Special Topics in Nursing 1-3 Credits

A special study which focuses on a topic or selected problem in nursing, subject to the approval and supervision of an assigned nursing instructor. These topics may address any of the following: nursing needs of a contemporary society, advanced nursing care, advanced nursing professional issues or health care in the future. The course is recommended for nursing majors. May enroll for one to three credits. Fee required. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

NSG-490 Senior Seminar 1- Credits

This course is the departmental seminar for majors in nursing and incorporates the general education senior topic and text.

Take 94 credits. (Required, Previous).

NSG-493 Transition to Practice 2- Credits

This course guides student preparation for professional practice and the national licensure exam through the use of classroom activities and electronic resources.

Take NSG-431. (Required, Previous).

NSG-498 Directed Research 1- Credits

This course provides an opportunity for senior nursing students with special interest in research to be under the guidance of faculty while conducting nursing research. The students will apply research methodology, gather and analyze data, and report their findings with an APA-style manuscript.

Take NSG-343. (Required, Previous). | Take PSY-205. (Required, Previous). | Take 94 credits. (Required, Previous).

NSG-500 Biostatistics 3- Credits

This course focuses on quantitative approaches to analyzing complex health data. Descriptive and inferential statistical methods will be used to examine scientific evidence and translate it to clinical practice.

NSG-502 Theoretical Foundations of Nursing Practice 3- Credits

This course focuses on foundational theories and research in nursing and other allied theories related to education. Concepts and theoretical foundations will be researched, analyzed and applied. The concept of servant teacher/leader will be integrated along with the Franciscan values.

NSG-503 Advanced Physiology and Pathophysiology Across the Lifespan 3- Credits

This course focuses the knowledge of advanced physiology and pathophysiology. The topics focus on the normal physiology and abnormal physiological mechanisms of disease. The knowledge gained serves as a foundation for clinical assessment, decision making and management of patient care.

NSG-504 Advanced Pharmacology 3- Credits

This course will expand pharmacological principles needed for safe medication administration and assessment. Poly-pharmacy, drug interactions and identification of adverse reactions will be comprehensively explored.

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Take NSG-503. (Required, Previous).

NSG-505 Policy, Organization and Financing of Health Care 3- Credits

This course will explore health care policy and the role of the nurse in developing and analyzing policy components that impact the nursing care and the health of the society. The focus will be on current trends in organizational and financial structure of health care institutions.

NSG-506 Advanced Health Assessment 3- Credits

This course focuses on the skills necessary to perform an advanced health history and health assessment. A holistic approach with an emphasis on health promotion and disease prevention will be explored.

NSG-507 Nursing Research 3- Credits

This course will provide the scientific base to utilize research in providing high quality health care, initiate change, and create policy and procedures. Students will learn essential skills to critically analyze quantitative and qualitative research and conduct an in-depth review of the literature regarding specific clinical and/or educational challenges.

NSG-510 Principles of Epidemiology 3- Credits

Descriptive and analytic epidemiology will be applied to the study of determinants of health in populations. The course will cover the history and application of epidemiology, basic quantitative field measures and methods, and an introduction to the design and implementation of epidemiological studies. Infectious diseases, surveillance/screening, and disease transmission and causality will be addressed

NSG-512 Teaching and Learning 3- Credits

This course focuses on foundation theories and research in nursing education. The art of teaching will be explored through a variety of teaching methodologies and strategies. Faculty role socialization is embraced with concepts such as the Franciscan Values and servant teacher.

NSG-513 Measurement and Evaluation 3- Credits

This course will examine curriculum, classroom and clinical performance evaluation. Students will analyze and create processes to evaluate learner outcomes. Knowledge of standards and benchmarks will be applied to improve outcomes.

NSG-514 Curriculum Development in Nursing 3- Credits

In this course, the student will understand challenges in designing a nursing curriculum including the need for a logical and reliable design. One of the outcomes of the course is to develop a curriculum that is consistent with the parent institution, the philosophy of the faculty, research guidelines and standards.

NSG-515 Role of the Nurse Educator 3- Credits

This course will explore the role of the nurse educator as a master's prepared nurse according to the Boyer Domains.

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NSG-517 Course/Program/Project Development 3- Credits

This course will provide students an opportunity to pursue an area of interest not covered in or more in depth than existing courses. The students will develop a course/program in the area of interest. A learning contract will be developed with a faculty advisor who possesses special competence in the area involved.

NSG-560 Nursing Educator Practicum 5- Credits

This course will provide the student with active experiences in nursing education. The preceptor model will be utilized to model and facilitate educational experiences. Nurse Educator Practicum planning will be based on self-assessment of the graduates in a portfolio. This portfolio will be used to plan the number of clinical hours in teaching groups (class or community), teaching individuals (clinical or orientation), and simulation (students or continuing education). Graded S/U.

Take NSG-502. (Required, Previous). | Take NSG-504. (Required, Previous). | Take NSG-505. (Required, Previous). | Take NSG-506. (Required, Previous). | Take NSG-507. (Required, Previous). | Take NSG-512. (Required, Previous). | Take NSG-513. (Required, Pr

NSG-580 Special Topics in Graduate Nursing. 3- Credits

These topics may address any of the following: nursing needs of a contemporary society, advanced nursing care, advanced nursing professional issues or health care in the future. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

NSG-598 Directed Research 3- Credits

This course provides an opportunity for graduate nursing students with special interest in research to be under the guidance of faculty while conducting nursing research.

NSG-599 Independent Study 3- Credits

Guided readings or research.

NSG-601 Neurobiology/Neuroanatomy 3- Credits

This course is a review of the nervous system integrating information and topics from the disciplines of anatomy, histology, neurobiology and neurology, integrating structure, function, and organization of nervous tissue from the cellular through gross anatomic aspects. Central, peripheral and autonomic portions of the system are included. Lectures are designed for clinical correlation in support of, and to strengthen, the basic science content. A review of the normal structure and function of these systems including the growth, development, maturation and aging of these systems are included for study.

NSG-602 Scientific Foundation for the Family Nurse Practitioner Role 3- Credits

This course explores the theoretical foundation for family-centered primary care. Other key principles examined are regulation of the family nurse practitioner, issues of advocacy, health disparities, healthcare economics and financing, health literacy, health policy, medical ethics and the sociocultural factors influencing the health behaviors and health outcomes of the individual and family.

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NSG-603 Advanced Pharmacology for Nurse Anesthesia I 3- Credits

This course entails a comprehensive study of anesthetic agents and adjuvants along with drugs frequently encountered in the perioperative setting. The pharmacokinetics and pharmacodynamics of these drugs are addressed, along with potential drug interactions, the impact of aging and various disease processes on dosing and administration of these drugs.

NSG-604 Clinical Differential Judgment and Diagnosis 3- Credits

This course focuses on clinical reasoning and the diagnostic process used in health promotion, disease prevention and management of acute and chronic conditions seen in primary care of the individual and family. Knowledge and clinical skills learned in advanced physiology and pathophysiology, advanced pharmacology and advanced health assessment are applied to diagnostic reasoning. Case studies help the student formulate comprehensive differential diagnoses of common disease processes and teach appropriate use and interpretation of advanced diagnostic tests available to the family nurse practitioner in primary care. FNP scope of practice, ethical and financial considerations are also examined.

Take NSG-506. (Required, Previous). | Take NSG-504. (Required, Previous).

NSG-605 Scientific Concepts for Anesthesia Practice 4- Credits

This course is designed to assist the nurse anesthesia graduate student in applying the basic principles of chemistry and physics in nurse anesthesia practice to include, but not limited to: gas laws, principles of vaporization, use of ventilator equipment, anesthetic agent chemical actions, physics as applied to monitoring and anesthesia equipment, biochemical sciences related to anesthesia practice. A review of medical mathematics is included, as well as, a review of radiation safety (x-ray, MRI) and ultrasound.

NSG-607 Anesthesia Principles I 3- Credits

This course is designed to provide the student with a comprehensive orientation of the practice of anesthesia. The student will gain the necessary knowledge to incorporate safe, basic principles into the delivery of competent anesthesia care to the patients. Through observation and simulation, the student will begin developing generalized clinical skills for basic anesthesia practice. These skills are foundational to nurse anesthesia practice and will serve as the basis for the student's progression to more advanced anesthesia care.

Take NSG-607S. (Required, Concurrent).

NSG-607S Anesthesia Principles I Simulation 1- Credits

This course incorporates student didactic learning experiences of Anesthesia Principles I into simulation training in the Nurse Anesthesia Simulation Lab.

Take NSG-607. (Required, Concurrent).

NSG-608 Integrated Behavioral Health and Family Systems 3- Credits

This course focuses on the integration of behavioral health and family systems concepts into primary care across the lifespan. Emphasis is on the role of the advanced practice nurse in the synthesis and integration of theoretical models upon which to base collaborative clinical practice in primary care and behavioral health care settings.

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NSG-609 Advanced Pharmacology for Nurse Anesthesia II 3- Credits

This course continues a comprehensive study of anesthetic agents and adjuvants along with drugs frequently encountered in the perioperative setting. The pharmacokinetics and pharmacodynamics of these drugs are addressed, along with potential drug interactions, the impact of aging and various disease processes on dosing and administration of these drugs.

Take NSG-603. (Required, Previous).

NSG-610 Family Nurse Practitioner Comprehensive 1- Credits

This course serves as a board review for the Family Nurse Practitioner certification examination.

NSG-611 Anesthesia Principles II 3- Credits

Anesthesia Principles II includes anesthetic management principles for surgical specialty areas, pain management, ultrasound and radiology. Students will master competencies in anatomic, physiologic, pathophysiologic and pharmacologic principles for each of the surgical specialty areas addressed in this course, in the framework of advanced nursing practice to the practice doctoral level.

Take NSG-607. (Required, Previous). | Take NSG-611S. (Required, Concurrent).

NSG-611S Anesthesia Principles II Simulation 1- Credits

This course incorporates student didactic learning experiences of Anesthesia Principles II into simulation training in the Nurse Anesthesia Simulation Lab. Graded S/U.

Take NSG-611. (Required, Concurrent).

NSG-613 Anesthesia Principles III 3- Credits

This course focuses on anesthetic care principles for parturients, children, infants and neonates. Students will master related anatomic, physiologic, pathophysiology and pharmacologic principles for obstetric and pediatric anesthesia in the framework of advanced nursing practice at the practice doctorate level.

Take NSG-607. (Required, Previous). | Take NSG-611. (Required, Previous). | Take NSG-613S. (Required, Concurrent).

NSG-613S Anesthesia Principles III Simulation 1- Credits

This course incorporates student didactic learning experiences of Anesthesia Principles III into simulation training in the Nurse Anesthesia Simulation Lab.

Take NSG-613. (Required, Concurrent).

NSG-615 Anesthesia Seminar I 2- Credits

The seminar courses provide an open forum for class discussion on current issues related to the role of the nurse anesthetist. This course is designed to provide the nurse anesthesia student with knowledge of chemical dependency, wellness, and ethical issues related to the specialty of anesthesia.

NSG-617 Anesthesia Seminar II 2- Credits

This course is designed to review the history of nurse anesthesia in the United States and provide insight into nurse anesthesia on the international level. Challenges to nurse anesthesia practice, ethical considerations, and current trends in nurse anesthesia will be explored. The role of the American

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Association of Nurse Anesthetists and the International Federation of Nurse Anesthetists will be presented and discussed.

NSG-619 Anesthesia Seminar III 2- Credits

This seminar will provide nurse anesthesia students with an overview of anesthesia employment arrangement, contracts, billing requirements, legal issues, and other business related issues or matters related to the practice of anesthesia.

NSG-661 Basic Clinical Anesthesia Practice I 3- Credits

This course will provide a foundation in nurse anesthesia basic principles. The clinical experiences are designed to provide students with progressive development of anesthesia knowledge, skills and competencies in anesthesia practice while also applying basic and advanced principles of anesthetic management in various surgical specialty areas. Graded S/U.

Take NSG-607. (Required, Previous).

NSG-663 Clinical Anesthesia Practice II 3- Credits

This course will provide a foundation in nurse anesthesia basic principles. The clinical experiences are designed to provide students with progressive development of anesthesia knowledge, skills and competencies in anesthesia practice while also applying basic and advanced principles of anesthetic management in the designated surgical specialty areas.

Take NSG-611. (Required, Previous). | Take NSG-661. (Required, Previous).

NSG-664 Primary Care Women and Clinical Practicum 5- Credits

This course focuses on the health assessment and management of common acute and chronic health conditions seen in the primary care of women. Health promotion, disease prevention, ethical considerations and differentiating normal from abnormal health assessment findings are emphasized. The clinical practicum will focus on the application of the health assessment and management skills.

Take NSG-660 or NSG-672. (Required, Previous).

NSG-665 Clinical Anesthesia Practice III 3- Credits

This course will provide a foundation in nurse anesthesia basic principles. The clinical experiences are designed to provide students with progressive development of anesthesia knowledge, skills and competencies in anesthesia practice while applying basic and advanced principles of anesthetic management in various surgical specialty areas.

Take NSG-613. (Required, Previous). | Take NSG-663. (Required, Previous).

NSG-667 Nurse Anesthesia Immersion I 5- Credits

The immersion provides nurse anesthesia students with an opportunity to achieve specialty competence at the practice doctorate level. Anesthesia clinical practice is planned between the student and the faculty while clinical experiences are completed via the assistance, support and leadership of the approved clinical preceptors and clinical site coordinators. This is the first in a series of three clinical residency courses. Graded S/U.

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NSG-668 Nurse Anesthesia Immersion II 5- Credits

The immersion will provide nurse anesthesia students with an opportunity to achieve specialty competence at the practice doctorate level. Anesthesia clinical practice is planned between the student and the faculty while clinical experiences are completed via the assistance, support and leadership of the approved clinical preceptors and clinical site coordinators. This is the second in a series of three clinical residency courses. Graded S/U.

Take NSG-667. (Required, Previous).

NSG-669 Nurse Anesthesia Immersion III 5- Credits

The immersion will provide nurse anesthesia students with an opportunity to achieve specialty competence at the practice doctorate level. Anesthesia clinical practice is planned between the student and the faculty while clinical experiences are completed via the assistance, support and leadership of the approved clinical preceptors and clinical site coordinators. This is the third in a series of three clinical residency courses. Graded S/U.

Take NSG-668. (Required, Previous).

NSG-670S Anesthesia Crisis Management Simulation 2- Credits

This course utilizes simulation based learning to review and manage anesthesia clinical crises.

Take NSG-668. (Required, Previous).

NSG-672 Primary Care Across the Lifespan I 5- Credits

This course provides a foundation for Family Nurse Practitioner student in the recognition and management of selected common chronic and acute health problems of clients across the lifespan encountered in primary health care settings. The course integrates assessment, current research findings and theory into the diagnostic reasoning and management of health care. Basic concepts of health promotion and maintenance, anticipatory guidance, health education, behavioral management strategies and family focused care are emphasized. Clinical experiences are utilized for the application of knowledge to practice.

Take NSG-604. (Required, Previous).

NSG-674 Primary Care Across the Lifespan II 6- Credits

This course provides in-depth concepts and skills for Family Nurse Practitioner student in the recognition and management of selected common chronic and acute health problems of clients across the life span encountered in primary health care settings. The course integrates assessment, current research findings and theory into the diagnostic reasoning and management of health care. Concepts of health promotion and maintenance, anticipatory guidance, health education, behavioral management strategies and family focused health care are emphasized. Clinical experiences are utilized for the application of knowledge to practice.

Take NSG-672 or NSG-660. (Required, Previous).

NSG-676 Primary Care Across the Lifespan III 6- Credits

This course is a comprehensive application of concepts and skill for primary care the lifespan. The course continues to focus on in-depth concepts and skills for the Family Nurse Practitioner student in recognition and management of selected common chronic and acute health problems of clients across

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the lifespan encountered in primary health care settings. The course integrates assessment, current research findings and theory into the diagnostic reasoning and management of health care. Concepts of health promotion and maintenance, anticipatory guidance, health education, behavioral management strategies and family focused health care are emphasized. Clinical experiences are utilized for the application of knowledge to practice.

Take NSG-674 or NSG-662. (Required, Previous).

NSG-678 Primary Care Immersion 7- Credits

This transition-to-practice immersion experience prepares the student for an entry level FNP role. The immersion provides a depth, breadth, volume and intensity of clinical training necessary to manage patients in the evolving and increasingly complex healthcare environment. Seminars that address Family Nurse Practitioner related topics and role issues are offered to help the student transition into practice.

Take NSG-664 or NSG-676. (Required, Previous). | Take NSG-662 or NSG-674. (Required, Previous). |

Take NSG-660 or NSG-672. (Required, Previous).

NSG-680 Special Topics 1-3 Credits

This course will explore a special topic that is relevant to the current health care environment. The special topic being discussed can change each semester, staying current with health care trends and concerns of the communities we serve. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

NSG-682 Current Topics in Primary Care 1- Credits

This course will explore a special topic that is relevant to the current healthcare environment, e.g., Opioid Epidemic, Human Trafficking, Teen Suicide, Gun Violence, Self-Care, Obesity Epidemic, etc. The special topic being discussed will change each semester, staying current with health care trends and concerns of the communities we serve. This course is open to all graduate nursing students as well as graduate students from other programs.

NSG-699 Independent Study 1- Credits

Independent study in the field of nursing.

NSG-701 Analytical Methods for the Translation Of Evidence Into Prac 3- Credits

This course serves as an introduction to incorporating translational research into clinical practice. Essential components to translational research include critical analysis of clinical practice guidelines, project proposal development, and quantitative and qualitative analytical methods to evaluate project effectiveness.

Take NSG-507. (Required, Previous).

NSG-702 Systems and Program Planning for Quality Improvement 3- Credits

This course focuses on the role of the DNP in the practice setting. The course will explore political skills, systems thinking, legal aspects and business and financial acumen to identify, develop and implement health care policies that are safe and financially responsible. Experiential exercises allow for the creation of programs to promote health or prevent disease that will improve and be measured by healthcare outcomes. The course provides opportunities to work in interprofessional teams.

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NSG-704 Professional Leadership and Collaboration 3- Credits

This course focuses on methods for effective communication, conflict resolution, advocacy and interprofessional collaboration to improve and transform health care. The student will practice effective team leadership, facilitate team function and overcome barriers to inter-professional practice.

NSG-705 Information Management to Improve Healthcare 3- Credits

This course focuses on information technology and its application in healthcare settings. Emphasis is on the analysis, implementation and selection of systems to improve healthcare.

NSG-706 DNP Project I 1- Credits

The DNP Project course series provides the student a mentored opportunity to integrate the DNP essentials into practice and demonstrate clinical scholarship by way of a final scholarly project (i.e., DNP project) aimed to improve system/practice outcomes. The DNP project may take on various final forms depending on the student's area of advanced nursing practice. This first of a 3-course series focuses on planning (e.g., identification of the phenomenon of interest and proposal development) of the DNP project. Graded S/U

Take 1 group (Take NSG-501 /Take NSG-502 NSG-507 NSG-701). (Required, Previous).

NSG-707 DNP Project II 1- Credits

The DNP Project course series provides the student a mentored opportunity to integrate the DNP essentials into practice and demonstrate clinical scholarship by way of a final scholarly project (i.e., DNP project) aimed to improve system/practice outcomes. The DNP project may take on various final forms depending on the student's area of advanced nursing practice. This second of a 3-course series focuses on the implementation of the DNP project. Graded S/U

Take NSG-706. (Required, Previous).

NSG-708 DNP Project III 1- Credits

The DNP Project course series provides the student a mentored opportunity to integrate the DNP essentials into practice and demonstrate clinical scholarship by way of a final scholarly project (i.e., DNP project) aimed to improve system/practice outcomes. The DNP project may take on various final forms depending on the student's area of advanced nursing practice. This is the third of a 3-course series focuses on the evaluation and dissemination of the DNP project.

Take NSG-707. (Required, Previous).

NSG-780 Special Topics in Health Care 1- Credits

This course will explore a special topic that is relevant to the current health care environment, e.g., Opioid Epidemic, Human Trafficking, Teen Suicide, Gun Violence, Self-Care, Obesity Epidemic, etc. The special topic being discussed will change each semester, staying current with health care trends and concerns of the communities we serve. This course is open to all graduate nursing students as well as graduate students from other programs.

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NUA-120 Fundamentals of Nursing 6- Credits

The student will identify basic human needs and develop conceptual skills required for therapeutic nursing interventions with culturally diverse individuals. Students will learn beginning concepts of safety, informatics, and patient-centered care. Student focus is placed on providing a solid foundation of basic technical and interpersonal skills. Students will provide total care for one patient in the long-term care setting. The nursing process is introduced, including its application to nursing care, using clinical and laboratory settings.

NUA-121 Medical/Surgical I 5- Credits

Based on latest evidence for patient-centered care, the student will develop multifaceted psychomotor skills in a variety of settings and will begin to assimilate into the nursing role. Students will be provided opportunities to administer safe, technologically-current care to individuals experiencing chronic stable and common acute health conditions in acute care and community settings. Students will provide total care for at least one patient in the acute care setting.

Take NUA-120. (Required, Previous). | Take NUA-121C. (Required, Concurrent).

NUA-121C Medical/Surgical I Clinical - Credits

NUA-121 clinical.

Take NUA-121. (Required, Concurrent).

NUA-130 Medical Terminology for Nursing 2- Credits

Students will understand and properly use basic and specialized medical terminology including vocabulary related to normal physiological and disease processes.

NUA-135 LPN to ASN Transition 3- Credits

The focus of this course is on the role development and transition of the LPN to the RN. The course introduces the student to the definition, roles and responsibilities of the registered nurse in providing nursing care to clients, families and groups, and communities in their environment. Role concepts essential for the RN to provide and manage care as a member of the profession are emphasized. The student will utilize critical thinking as it relates to the assessment, diagnosis, management and evaluation in the provision of professional nursing practice. Principles of evidence based nursing research will be identified to guide the teaching/learning process.

NUA-200 Medical-Surgical Nursing II 5- Credits

Based on latest evidence for patient-centered care, the student will practice complex psychomotor skills in a variety of settings and continue to assimilate into the nursing role. Students are provided opportunities to administer safe, technologically-current care to individuals experiencing increasingly complex chronic and acute health conditions. Students will provide total care for at least one patient in the acute care setting.

Take NUA-121. (Required, Previous). | Take NUA-200C. (Required, Concurrent).

NUA-200C Medical-Surgical II Clinical - Credits

NUA-200 clinical.

Take NUA-200. (Required, Concurrent).

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NUA-215 Pharmacology 3- Credits

The student will develop and/or strengthen study, test-taking, and critical thinking skills for safe professional nursing practice. Basic mathematical concepts and dosage calculations will be practiced. This course begins the student nurse's education on the concepts of Pharmacotherapeutics and establishes a base of knowledge that applies to patient care and education. Understanding of the major drug classifications, their physiological and pathophysiological using the nursing process will be mastered.

Take NUA-120. (Required, Previous or concurrent).

NUA-225 Pediatrics-OB Nursing 5- Credits

In this course, the student will gain knowledge related to the reproductive process, prenatal, antepartum and postpartum periods, with a focus on health promotion, current standards of care, and safe drug administration for mother and infant. The student will gain knowledge in caring for the pediatric patient and their family, while focusing on growth, development and nutrition needs of the pediatric patient. The student will explore how to care for the pediatric patient experiencing neurological and musculoskeletal conditions.

Take NUA-121. (Required, Previous). | Take NUA-225C. (Required, Concurrent).

NUA-225C Pediatrics-OB Nursing Clinica - Credits

NUA-225 clinical.

Take NUA-225. (Required, Concurrent).

NUA-245 Mental Health Nursing 5- Credits

In this course, the student will gain knowledge in caring for the pediatric patient and their family, while focusing on acute and chronic disease processes. The student will explore how to care for the pediatric patient experiencing respiratory, cardiovascular, blood, gastrointestinal, genitourinary, skin, and metabolic conditions. The student will gain knowledge on childhood communicable disease, and emotional and behavioral issues. The mental health portion of this course will enable the student to therapeutically communicate with patients experiencing chronic and acute mental health and substance abuse conditions across the lifespan.

Take NUA-225. (Required, Previous). | Take NUA-245C. (Required, Concurrent).

NUA-245C Mental Hlth Nrsg Clinical - Credits

NUA-245 clinical

Take NUA-245. (Required, Concurrent).

NUA-265 Nursing Issues 3- Credits

The student will be introduced to current issues and trends that impact the professional practice of nursing. This course will emphasize interpersonal relationships, cultural diversity, legal and ethical responsibilities, quality improvement, and nursing as a profession. The student will demonstrate appropriate supervision and delegation skills.

Take NUA-121. (Required, Previous).

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NUA-270 Nursing Capstone 6- Credits

Building upon Med/Surg II and using the latest evidence for patient-centered care, the student will continue to assimilate into the nursing role and utilize more advanced psychomotor skills in a variety of critical, urgent, and emergent settings. Quality systems in place in the clinical setting will be identified and evaluated for their effects on improvement of safe patient care. Students are provided opportunities to administer collaborative, technologically current care to individuals experiencing critical illness and unstable acute conditions. Students will provide total care for at least 2 patients in the acute care, critical-care and emergent care settings.

Take NUA-200. (Required, Previous). | Take NUA-270C. (Required, Concurrent).

NUA-270C Nursing Capstone Clinical - Credits

NUA-270 clinical.

Take NUA-270. (Required, Concurrent).

NUB-470 Interprofessional Communications 3- Credits

All health professionals are challenged to educate future clinicians to deliver patient-centered care as members of an inter-professional team, emphasizing communication, evidence based practice, quality improvement approaches and informatics. This course is designed to introduce the student to unique approaches for interactions with patients ("Clients") and colleagues. Students will learn that the art of communication only increases the value of the gift of nursing. This course will show that moments of connection impact quality of care. This course is offered only in the MAP program.

Take NSG-328. (Required, Previous).

OTJ-260 On the Job Learning 1-4 Credits

Development of leadership skills and critical thinking strategies that promote employment readiness, retention, advancement, and promotion. Students are placed in a supervised experience in a field according to their career interests and academic abilities. A minimum of 15 hours per week of on-the-job training is required to earn credit. This course may be repeated for up to 15 credits. Graded S/U.

PBH-100 Introduction to Human Services & Social Problems 3- Credits

This course will cover fundamental concepts and strategies in the health and human services industry. Students will examine their local communities as well as themselves and learn how self-awareness aids in the development of relationships with individuals, community and society. Students will learn and demonstrate the importance of observation, listening skills, reading and analysis, problem solving, note taking and interviewing skills. Ethical situations and awareness will also be a focus of the course, as well as a historical overview of the career field and an exposure to job opportunities in various environments and specializations. There will be several topics of focus that students will be examining throughout the course. These include but are not limited to; homelessness, poverty, malnutrition, child care, child development, foster care, vaccinations, health screenings, mental health, AIDS/HIV. This course is only offered in the MAP program.

PBH-201 Public Health and Society 3- Credits

This course examines the social context of health, illness, and healthcare with particular attention to understanding health and illness of populations. This course introduces both sociological and public

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health approaches to population health, disease causation and prevention—emphasizing health issues that affect society as a whole as well as vulnerable populations.

Take SOC-101. (Required, Previous).

PBH-301 Introduction to Epidemiology 3- Credits

This course introduces the basic concepts and methods of epidemiology with a focus on application to multiple domains of public health. The course enables students to understand the distribution of health events in human populations and the methods of assessment by the use of morbidity and mortality data. Cross-listed as BIO-301.

PBH-330 Fam, Chidrn, & Ppl w/ Disabilities 3- Credits

Students will deepen their knowledge of families, children and the people with disabilities. This course is a review of the ways in which professionals work together in supporting child and family resiliency within the context of complex issues, such as divorce, child abuse and neglect, and illness and death of family members. This course also focuses on current social systems and the policies that affect the welfare of families and children, as well as various forms of family functionality. This course provides a historical overview of family and child policy in the United States, including policies toward children and families in poverty. This course approaches concerns of people with disabilities from an interdisciplinary perspective and uses multiple theories to define disability. This course provides a socio historical survey of political, economic, social and cultural perspectives. Topics such as the social construction of disability and the changing experiences of people with disabilities are discussed in the context of other civil rights movements and the broader evolution of social policy. This course is only offered in the MAP program.

PBH-340 Crisis & Interventions 3- Credits

Students will study situational procedures and techniques necessary in defusing situations identified as crises. Students will work on further developing skills to evaluate crisis experiences by combining active listening with an understanding of crisis patterns. Through class activities, such as case studies, with comparative and visual analyses, students learn how to work through difficult emotional, social, and health crises. Students will also assess forms of interventions thru readings and share perspectives through peer discussion on related topics. Some topics will include intervention models and strategies; system crisis intervention; collaboration; countertransference; secondary traumatic stress disorder and vicarious trauma; burnout prevention; and referral resources. Students will also examine and learn how cultural diversity impacts crisis responses and how to deal effectively with diverse populations. This course is only offered thru the MAP program.

PBH-342 Intergrp Conflict & Pce Bldg 3- Credits

In a world encumbered with conflict, tension, and injustice, strategies for building peace are essential. Students assess theories and principles of conflict and will investigate conflict in the many worlds in which they function and will get a chance to investigate their own attitudes towards it and responses to it. Course participants will use lenses including identity (gender, religion, nationality, etc.), human needs, narratives, power, culture, worldview, and others to understand conflict and propose possibilities for change. Good conflict analysis skills are a central component of designing effective strategies for transforming conflict and building peace. Students will explore the role of communication in managing interpersonal and organizational conflicts. Case studies of conflicts at multiple levels will provide content

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and an opportunity to practice analysis skills individually and in small groups, balancing theory and practice. Topics addressed include negotiation, mediation, nonviolent communication, and reconciliation, and will include further exploration of intergroup dynamics; principles and underlying philosophies of non-violence; and social science principles to understand conflict and promote peace. This course is only offered thru the MAP program.

PBH-380 Special Topics in Public Health 1-3 Credits

Special topics as deemed necessary. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

PBH-460 Advanced Internship in Public Health 3- Credits

Students are placed in an advanced supervised experience in public health or a related field according to their career interests and academic abilities. A minimum of five hours per week of on-the-job work is required to earn each credit. Students are evaluated by their on-the-job supervisor and by a journal submitted to the monitoring faculty member. This course may be repeated for an accumulated total of six credits. Graded S/U.

PBH-490 Senior Seminar in Public Health 3- Credits

This capstone course will combine classroom experience and a supervised field experience with a local non-profit or health and human services partner subject to the instructor's approval. Completing this field experience will allow students to utilize the skills and techniques that have been taught throughout the degree program. The capstone project will allow students to share their knowledge of agencies, assigned communities and the culturally diverse client populations that have been examined during their field experience and throughout the degree program.

PBH-495 Health & Human Services Capstone 3- Credits

Seminar students engage in intensive reading and discussion of capstone issues in the field of Public Health linked to the college-wide general education theme of the year. A research paper, class presentations, and discussion and attendance at college-wide events in support of the general education theme are required. Students also begin preparation for graduate school or careers. This course is only offered in the MAP program.

PHL-115 Ethical Analysis in Practice 1-2 Credits

This enhancement course offers students the opportunity to apply ethical theories and principles to case studies from business, law, medicine, and politics. The course focuses on building a coherent ethical argument and articulating and defending a position in a friendly, competitive, and dialogic setting. Students who wish to represent the Philosophy Department in the annual Central States Regional Ethics Bowl are required to take this course, although participation in the course does not automatically qualify a student to be a member of the team. Students are encouraged to enroll in the course more than once and may repeat the course for credit for as many as six credit hours. Take PHL-130. (Required, Previous).

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PHL-130 Human Nature and Person 3- Credits

This course addresses what it is to be human and what it means to be a human person. Particular emphasis is given to exploring these themes within the Western and specifically Catholic philosophical tradition in dialogue with other, and sometimes competing, positions. This course partially satisfies the general education curriculum standards in humanistic and artistic knowledge.

PHL-150 Logic 3- Credits

This reasoning skills-development course examines basic logical concepts and shows their applicability to all areas of reasoning. Required of philosophy majors, but strongly recommended to everyone, especially those contemplating law school or graduate school.

PHL-203 Plato and Aristotle 3- Credits

This course investigates philosophical works of the two acknowledged giants of Greek thought, Plato (ca 428-348 B.C.) and Aristotle (384-322 B.C.), in historical context and especially for subsequent impact on Western thought. In-class reading and discussion.

PHL-205 Augustine and Aquinas 3- Credits

This course investigates the philosophical works of two acknowledged giants of Christian thought, Augustine of Hippo (A.D. 354-430) and Thomas Aquinas (1225-1274), in historical context and for subsequent impact. In-class reading and discussion.

PHL-215 Personal and Professional Ethics 3- Credits

This course introduces the student to ethics through philosophical reflection on the development of the student's moral judgment with particular attention to ethical issues related to being a professional in contemporary society. Topics include personal development in making moral judgments, critical assessment of different ethical theories, the meaning of being a professional, the social obligations of professionals and the relationship between personal and professional morality. This course satisfies the writing intensive requirement in the student's major.

PHL-220 Philosophy of Science 3- Credits

A Survey of 20th Century philosophy of sciences; positions discussed include Positivism, Falsificationism, Paradigm-Theoretic Approaches, Instrumentalism, etc.
Take PHL-130. (Required, Previous).

PHL-230 Philosophy of Beauty and Art 3- Credits

An examination of the beautiful as such and the beautiful in art, from the stance of classical philosophy. Although this is fundamentally a philosophy course, just as important are field trips to experience the various forms of the beautiful.

PHL-240 Social and Political Philosophy 3- Credits

A search for the principles of the just state, including various notions of human nature, common good, the nature of institution and law, justice and right, sovereignty, force and various social units such as family and labor unions.
Take PHL-130. (Required, Previous).

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PHL-250 Introduction to Symbolic Logic 3- Credits

This course is an introduction to symbolic logic, focusing on sentential and predicate logic. Following a general introduction to formal logic, the course focuses on the translation of natural language into the symbolic languages of sentential logic and predicate logic, and the construction of derivations (proofs) in sentential and predicate logic.

PHL-260 Asian Philosophies 3- Credits

This course is a very broad survey of major philosophical themes in five Asian traditions — Hinduism, Buddhism, Confucianism, Taoism, and Islam. The format is in-class reading and discussion of classical texts. This course partially satisfies the cross-cultural general education requirement in the cultural awareness category.

Take PHL-130. (Required, Previous).

PHL-280 Sel Top:Phil Hum Nat 3- Credits

Announced special topics on individual philosophical themes determined by the faculty members, students, and department. The course is recommended for majors, minors, and non-majors (with staff approval) who have fulfilled at least the distribution requirement of three credits of philosophy. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

PHL-305 Scotus & Ockham - Metaphysical Themes Of Franciscan Masters 3- Credits

This course examines the works of John Duns Scotus and William of Ockham, the two most influential members of the Franciscan intellectual tradition, by taking up their treatment of a series of metaphysical questions. These include: What is science? What is the relationship between faith and scientific knowledge? Can the existence of God be proven scientifically/philosophically? Themes taken up in the course include: The influence of pre-Christian and Islamic thinkers on the Franciscan authors, the place of the Franciscan intellectual tradition within the broader Catholic intellectual tradition, the philosophical foundations for Marian University's Franciscan Sponsorship values.

Take PHL-130. (Required, Previous).

PHL-310 Kafka, Kierkegaard, Dostoyevsky and Camus 3- Credits

Readings and discussion of Kafka's *Metamorphosis*, Kierkegaard's *The Sickness Unto Death and Fear and Trembling*, Dostoyevsky's *The Grand Inquisitor*, and Camus' *Myth of Sisyphus*. An introduction to the notions of self, freedom, despair and authenticity in the view of both atheistic and Christian existentialism.

PHL-315 Ethical Conduct in Research 3- Credits

This course is designed to provide an overview of ethical issues related to research and the best practices associated with the ethical conduct of research - whether scientific, behavioral, or sociological. Areas of ethical concern to be addressed include the social responsibility of researchers and scientists; doing research with integrity; and appropriate research relationships. Topics include the use of human and non-human animals as research subjects; the definition of research misconduct; conflicts of interest in research; publication practices; intellectual property and plagiarism; and acquisition, management, sharing, and ownership of research data. Case study will be used to illustrate ethical topics.

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Take PHL-215. (Required, Previous).

PHL-320 Philosophy of Knowledge 3- Credits

A critical study of epistemology as both a descriptive and normative discipline. Topics include the nature, structure, and sources of human knowledge, the nature of epistemic justification, the ethics of belief, and the problem of skepticism. Readings are drawn from historical and contemporary sources.

PHL-325 Philosophical Bioethics 3- Credits

This course will introduce students to philosophical discussion regarding particular debates and positions in bioethics. Subjects to be discussed include abortion, genetic testing and treatment, cloning and stem cell research, euthanasia and end-of-life care, biomedical research with human subjects, and various issues in practice of medicine and the healthcare provider-patient relationship.

PHL-330 Philosophy of Being (metaphysics) 3- Credits

Inquiry into the ultimate explanations and structure of real things; an account of our search for such knowledge and the solutions of thinkers characteristic of the ancient, medieval and modern periods. Take PHL-130. (Required, Previous).

PHL-349 Modern and Contemporary Philosophy 3- Credits

The major defining philosophical positions in the period from Descartes to the present. Includes a special emphasis on political thinkers such as Hobbes, Rousseau, Marx and Mill. Course projects specifically designed for philosophy or political science students. Take PHL-130. (Required, Previous).

PHL-350 God and Philosophy 3- Credits

Course introduces a philosophical discussion of God, God language, philosophy of religion, philosophical theology, and major philosophical influences on classical and contemporary theology. Take PHL-130. (Required, Previous).

PHL-357 Twentieth-Century Personalist 3- Credits

In this course, students are introduced to seminal representatives of personalist philosophy in the twentieth century. Areas of focus include personalist contributions to philosophical anthropology, value theory, and political philosophy. Sources include, but are not limited to, philosophers of especial importance to the Catholic intellectual tradition in the twentieth century.

PHL-380 Special Topics in Philosophy 3- Credits

Announced special topics on individual philosophical themes determined by the faculty members, students, and department. The course is recommended for majors, minors, and non-majors (with staff approval) who have fulfilled at least the distribution requirement of three hours of philosophy. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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PHL-381 Selected Topics in Catholic Studies 3- Credits

Readings, discussion and writing on selected philosophical topics in Catholic studies. May be repeated for credit since subject matter varies.

PHL-480 Special Topics in Philosophy 3- Credits

Announced special topics on individual philosophical themes determined by the faculty members, students, and department. The course is recommended for majors, minors, and non-majors (with staff approval) who have fulfilled at least the distribution requirement of three credits of philosophy. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

PHL-490 Senior Philosophy Seminar 3- Credits

A capstone experience with a threefold purpose: (1) to encourage the student to review and integrate materials from earlier coursework; (2) to provide the student with some experience of study at the graduate level; and (3) to encourage the student to integrate one's experience in the discipline with one's overall undergraduate education. The course is intended to be a seminar involving close reading and research. It requires the completion of a substantial research project as well as a pair of comprehensive exams on systematic topics and historical figures.

PHL-498 Guided Research in Ethics 3- Credits

This course is designed to provide the opportunity to juniors and seniors pursuing the concentration in ethics to engage in an independent research project in ethics. Students will identify a research topic related to ethics, develop a proposal, including a list of initial readings, present the proposal in the seminar, research the topic thoroughly, and write and present their research paper to the class. An important part of the seminar will be peer review and editing of proposals and final drafts of the research papers.

Take PHL-130. (Required, Previous). | Take PHL-215. (Required, Previous).

PHL-499 Independent Study 3- Credits

Guided readings and research.

PHL-H30 Honors Human Nature and Person 3- Credits

Content of PHL-130 is enriched with more reading and writing. Limited enrollment to students in the honor's program. This course partially satisfies the general education curriculum standards in humanistic and artistic knowledge.

PHY-110 General Physics I 4- Credits

Fundamental principles of mechanics, waves, thermodynamics, electricity, magnetism, optics, and modern physics. This course is not calculus-based but does require students to use algebra and trigonometry. Three lecture hours and two lab hours per week.

Take MAT-145 MAT-215P MAT-230P MAT-215 or MAT-230. (Required, Previous). | Take PHY-110L. (Required, Concurrent).

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PHY-110L General Physics I Lab - Credits

PHY-110 lab.

Take PHY-110. (Required, Concurrent).

PHY-111 General Physics II 4- Credits

Principles of electricity, magnetism, optics, and modern physics. Three lecture hours and two lab hours per week.

Take PHY-110. (Required, Previous).

PHY-111L General Physics II Lab - Credits

PHY-111 lab.

Take PHY-111. (Required, Concurrent).

PHY-201 University Physics I 4- Credits

Fundamental principles and applications of mechanics and waves, including uniform and non-uniform motion, energy, work, elasticity, and fluids. This course is calculus-based. Three lecture hours and three lab hours per week. This course satisfies general education curriculum standards for the development of scientific knowledge.

Take MAT-230; Minimum grade C. (Required, Previous).

PHY-201L University Physics I Lab - Credits

PHY-201 lab.

Take PHY-201. (Required, Concurrent).

PHY-202 University Physics II 4- Credits

A continuation of PHY-201. Fundamental principles and applications of thermodynamics, electricity, magnetism, and optics. Three lecture hours and three lab hours per week.

Take PHY-201; Minimum grade C-. (Required, Previous). | Take MAT-231. (Required, Previous).

PHY-202L University Physics II Lab - Credits

PHY-202 lab.

Take PHY-202. (Required, Concurrent).

PHY-212 Modern Physics 4- Credits

Introduction to relativity, quantum mechanics, nuclear structure, particle interactions, and fields. Four hours of combined lecture and lab per week.

Take PHY-202. (Required, Previous).

PHY-220 Astrophysics and Cosmology 3- Credits

Stellar atmospheres, stellar interiors, galaxy formation, and the large-scale structure of the universe. Two lecture hours per week.

Take PHY-202. (Required, Previous).

PHY-230 Electronics 4- Credits

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Students will learn basics of electrical and electronic circuits including introduction to analog and digital electronic circuits. Measurement of electrical signals using meters, probes, and oscilloscopes are covered in the laboratory component of the course. Circuits are designed for minimum hardware with emphasis on understanding analog and digital electronics with practical use of digital and analog microchips.

Take PHY-202. (Required, Previous).

PHY-230L Electronics Lab - Credits

PHY-230 lab.

Take PHY-230. (Required, Concurrent).

PHY-240 Materials 2- Credits

Structure and properties of metals, polymers, ceramics, semiconductors, photonic materials, and superconductors. Properties of nanostructured materials. One lecture hour and three lab hours per week

Take PHY-202. (Required, Previous).

PHY-310 Thermal Physics 3- Credits

Classical thermodynamics, equations of state, theories of heat, kinetic theory of gases, Bose and Fermi statistics, and irreversibility. Three lecture hours per week.

Take PHY-212. (Required, Previous). | Take MAT-315. (Required, Previous).

PHY-330 Electricity and Magnetism 3- Credits

A more rigorous approach to the foundations of electromagnetic theory. Classical electrodynamics and the theory of radiation, Maxwell's equations, magnetism, theory of synchrotrons and cyclotrons. Three lecture hours per week.

Take PHY-212. (Required, Previous). | Take MAT-315. (Required, Previous).

PHY-350 Biophysics 3- Credits

Introduction to the physical principles of biological systems. Molecular structures in biological contexts, bioenergetics, environmental interactions, thermodynamic and kinetic regulation of biological systems. Two lecture hours per week.

Take PHY-111 or PHY-202. (Required, Previous). | Take MAT-231. (Required, Previous).

PHY-370 Analytical Mechanics 3- Credits

Foundations of classical mechanics: the Lagrangian formalism, Hamilton-Jacobi theory, canonical transformations, and variational methods. Three lecture hours per week.

Take PHY-212. (Required, Previous). | Take MAT-315. (Required, Previous).

PHY-380 Special Topics 1-3 Credits

Special courses in physics in response to student needs. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

Take PHY-111 or PHY-202. (Required, Previous).

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PHY-410 Current Topics in Physics 3- Credits

Current developments in physics including nuclear theory, elementary particle theory, supersymmetry and string theory. Three lecture hours per week.

Take PHY-212. (Required, Previous). | Take MAT-310. (Required, Previous).

PHY-440 Introduction to Nanotechnology and Nanos 3- Credits

This is an introductory course in the nanosystems area. It introduces students to the principles and applications of Nanosystems and nanometer scale phenomena. It then introduces students to the basic elements and applications of nanotechnology including nanoscale materials, processes, and devices. Students will learn approaches to develop and characterize nanosystems, as well as applications in industries including information technology, energy, medicine, and manufacturing. The course concludes with a discussion of the societal and economical significance of these applications, including benefits and potential risks.

Take PHY-111 or PHY-202. (Required, Previous).

PHY-460 Internship in Physics 1-3 Credits

The internship in physics allows students who have completed an off-campus internship in a field related to physics to earn credit for their work experience. Students must present a written and oral summation of their experience. A student may earn 1 credit hour for every 60 hours of work experience they complete during a semester. This course may be taken multiple times for an accumulation of 6 hours total.

PHY-490 Physics Senior Seminar and Capstone 2- Credits

This course will discuss current advances and major topics in physics. Students will provide written and oral presentation of topics discussed in the course and/or research journals. The general education theme and readings will be integrated, and all requirements of general education will be required.

Take 94 credits. (Required, Previous).

PHY-498 Directed Research 1-4 Credits

This course is designed for junior or senior students to design and implement research projects or to investigate topical issues in the field of physics.

Take PHY-111 PHY-202. (Required, Previous).

PHY-499 Independent Study 3- Credits

Guided readings and research.

Take PHY-111 or PHY-202. (Required, Previous).

POL-102 Introduction to American Politics 3- Credits

Introduction to the basic features and processes of American government and politics. Examines the underlying assumptions of American democratic theory and political thought, the constitutional framework, and its political institutions (the Congress, the presidency, and the courts). Political parties and interest groups, voting behavior, public policy formation and foreign policy are also discussed. This course partially satisfies the general education requirement in the individual and social understanding category.

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POL-155 Introduction to Peace Studies 3- Credits

An introduction to the study of peace and non-violence, with a special emphasis on the perspective of political science. The course will be divided into two parts: the first will focus on important classical texts and historical cases that address issues of peace and non-violence; the second part will focus on current controversies in these areas.

POL-206 Applied Political Science Statistics 3- Credits

This course will provide an introduction to the main empirical methods and statistical tools used for research in the discipline of political science. Students will learn how to interpret statistical results and use the scientific method to understand politics. This course satisfies the general education standards for foundational intellectual skills in quantitative reasoning.

Take MAT-GENP or MAT-095. (Required, Previous). | Take MAT-095. (Recommended, Previous).

POL-210 Introduction to Comparative Politics 3- Credits

Comparative examination of political institutions and behavior across countries in Europe, Asia, Latin America, and Africa. Surveys the different types of political systems found in the contemporary world, including various forms of democracy and dictatorship. Students learn how power is legitimized through the organization of politics and how political life varies from country to country.

POL-220 Introduction to International Relations 3- Credits

Examines the international system of sovereign states, including conflictive and cooperative relations between states and the relationship between states and international organizations such as the United Nations. International law and human rights, the role of non-governmental actors, and international economic relationships are also introduced. This course serves as the general education writing Intensive course for the Political Science major.

POL-230 Introduction to Political Theory 3- Credits

Examines thinkers and themes central to the study of political theory. Includes discussions of thinkers like Plato, Machiavelli and Marx, and addresses topics such as the emergence and growth of modern ideologies (liberalism, socialism, communism, fascism); war and peace; political loyalty and obedience; justice, freedom, and power.

POL-280 Special Topics in Political Science 1-3 Credits

Readings, discussion, and writing on selected topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

POL-320 Public Policy 3- Credits

This course will examine public policy-making in the United States and provide students with the opportunity to see what is meant by public policy, and understand how policy is made and put into practice. Additionally, the course will equip students with the tools to evaluate public policy in place. This course is open to students in all majors.

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POL-325 Game Theory and Strategic Thinking 3- Credits

This course provides an introduction to rational decision-making when competing or cooperating with other people. It covers topics such as the prisoners' dilemma, tragedy of the commons, free riding, collective action, coordination games, brinksmanship, threats, and mixed strategies. This course is open to students in all majors.

POL-330 Leadership and Political Activism 3- Credits

This course focuses on the relationship between individuals and their communities. It examines the current state of civic engagement in the United States, leadership for social change, and the empowerment of citizens through public works, and covers both the theory and practice of civic engagement with an emphasis on the development of leadership skills necessary for effective political and community activism. Open to students in all majors.

POL-342 American Constitutional Law 3- Credits

An analysis of the American Constitution through the study of important Supreme Court decisions affecting the powers and limits of government in the United States. The topics covered include the powers of the national government, the right to privacy, civil liberties, and civil rights.

POL-344 American Political Thought 3- Credits

In-depth analysis of the ideas and concepts that are at the core of American political culture (democracy, equality, individual liberty) through a survey of selected writings, ranging from the founding era to our own times. The alternative understandings given to these ideas and how they have changed over time as America has evolved is examined.

POL-347 American Foreign Policy 3- Credits

The ideas, actions, and events that affected American foreign relations from the American Revolution to the post-Cold War world. Theories of decision-making, the tension between national self-interest and American idealism, and the relationship between domestic political and economic interests and the formulation of foreign policy are addressed.

POL-353 Politics of Development 3- Credits

An interdisciplinary examination of the politics of developing countries, analyzing the interrelationship of the international system, domestic politics and economics, and social forces in the development process. This course partially satisfies the general education requirement in the cultural awareness category.

POL-355 Politics of the Middle East 3- Credits

Course begins with a brief introduction to Islamic civilization and the Ottoman Empire, and then focuses on the politics of the modern Middle East. The impact of interaction with the West on the region's political regimes and cultures, nationalism and state-formation, the tension between secularism and Islam, the Arab-Israeli conflict, and the US role in the Middle East are examined. This course partially satisfies the cross-cultural general education requirement in the cultural awareness category.

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POL-357 Civil Wars and Ethnic Conflicts 3- Credits

Examines the phenomena of civil wars from three analytical perspectives: theory, case studies, and policy implications. The causes of civil wars and how and why they end, possible solutions for ethnic conflicts, and the variety of policy options for outside actors such as international organizations, non-governmental organizations, and nation-states (including the United States) are explored. This course partially satisfies the general education requirement in the cultural awareness category.

POL-361 Politics of the Global Economy 3- Credits

This course examines the relationship between politics and economics in a global context. It begins with a survey of the major competing theories, perspectives and classic readings of international political economy (including liberal, mercantilist, and structuralist). Course will then examine the contemporary international economic system, the relationship between the state and economy in the developed and developing worlds, and the current dynamics and challenges of globalization. Cross-listed as GLS-361.

POL-363 International Law and Organization 3- Credits

International law includes shared practices and also formal rules to guide relations between countries, ranging from acceptable behavior in war to the prohibition of slavery and genocide, diplomatic immunity, and the legal economic reach of a country beyond its shoreline. This course will highlight a particular issue-area to consider the value of international law. This course is open to students in all majors.

POL-365 Voting, Campaigns, and Elections 3- Credits

This course examines American elections focusing on voters, candidates, and institutions. It considers why people vote, various campaign tactics, and the effect rules have on electoral behaviors and outcomes. This course is open to students in all majors.

POL-366 Congress, Parties, and the Presidency 3- Credits

In depth examination of the elected branches of the national government, and the American political party system and interest groups. Topics to be covered include Constitutional design, the development and role of political parties, the inherent tensions between Congress and the presidency, the impact of individual presidents on the power and role of the presidency over time, and the role of interest groups in the political process.

POL-370 Women and Politics 3- Credits

Women and Politics will examine womens leadership and representation in the United States, as well as in other countries and within international institutions, and incorporate feminist theory to consider 'gendered' differences in public policies. This course is open to students in all majors. Course also counts toward the Gender Studies minor.

POL-380 Special Topics in Political Science 1-3 Credits

Readings, discussion and writing on selected topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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POL-460 Internship in Political Science 2-4 Credits

Internship with the Indiana General Assembly, Indianapolis City-County Council, or other government agency. Written reports and regular conferences with course coordinator required for full credit. These credits do not count toward the major or minor. May enroll for two to four credits. Graded S/U. Take 62 credits. (Required, Previous).

POL-490 Senior Political Science Seminar 3- Credits

Intensive reading and discussion of major issues in political science as a discipline. Assigned readings are linked to the general education theme of the year, and students are required to attend convocations. A formal written project is required. Take 94 credits. (Required, Previous).

POL-499 Independent Study 3- Credits

Guided readings and research.

PSY-101 General Psychology 3- Credits

This course serves as a broad introduction to the field of contemporary psychology, which is explored as a science, a profession, and a means of promoting human welfare. Students are exposed to psychology as both a natural and social science through reading assignments, lectures, discussions, and demonstrations. Writing assignments reflecting critical thinking are required. This course satisfies general education curriculum standards for behavioral and social knowledge.

PSY-201 Careers & Applications of Psyc 1- Credits

This course focuses on career planning and professional development for psychology majors. A combination of lecture, readings, and exercises are designed to assist students in the clarification and selection of a career in psychology or a related field. Topics will include an overview of the undergraduate major in psychology, career options in psychology and related fields, preparation for employment with a bachelor's degree, preparing for and succeeding in graduate school, and applying for a job or to a graduate program. Take PSY-101 or PSY-220. (Required, Previous).

PSY-205 Statistical Methods 3- Credits

Basic concepts, uses, and methods of statistical computation, including descriptive statistics, correlation, probability, estimation, sampling, design, hypothesis testing, t-tests, ANOVAs, and Chi square are presented. This is a computational and interpretational statistics course designed to prepare students for upper division/graduate courses in research, data evaluation, and analytical reasoning. Use of computer software facilitates learning. Fee required. This course partially satisfies the general education requirement in the scientific and quantitative understanding category. Take MAT-095 MAT-GENP MAT-GEN or ELC-BACH. (Required, Previous).

PSY-215 Data Analysis in SPSS 1- Credits

Applied course in the use of the SPSS data analysis software for descriptive and inferential statistical analysis. Students will use SPSS for the calculation and interpretation of measures of central tendency,

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measures of variability, correlation and regression, t-tests, ANOVA, and Chi Square. Students will be expected to complete multiple projects that require statistical analysis and written interpretation.

PSY-220 Human Growth and Development 3- Credits

Major theories, developmental stages, and current research in the area of human development are studied. Emphasis is placed on the genetic and environmental factors that influence the physical, cognitive, and social development of individuals throughout the lifespan. This course satisfies general education curriculum standards for behavioral and social knowledge.

PSY-230 Abnormal Psychology 3- Credits

A scientific study of abnormal behavior, with emphasis on cause, treatment, and prevention. Psychopathology, including its development, assessment, and treatment is approached using major paradigms and research findings as they relate to a range of disorders as listed in the current DSM. Take PSY-101 PSY-220 or ELC-BACH. (Required, Previous).

PSY-250 Research Methods 4- Credits

This course introduces major methodological approaches used to study human behavior including qualitative, survey, correlational and experimental methods. Students will participate in the designing of research projects, collecting and analyzing data, and preparing APA-style research reports and presentations.

Take PSY-101 or PSY-220. (Required, Previous). | Take PSY-205. (Required, Previous).

PSY-300 Psychological Tests and Measurements 3- Credits

This course addresses standardization procedures, concept evaluation, item and test reliability and validity, indirect measurement issues, and ethics. Tests currently in use in educational and psychological career fields are studied in depth. Projects on test development and interpretation are required. Fee required.

Take PSY-101 or PSY-220. (Required, Previous). | Take PSY-205. (Required, Previous).

PSY-305 Learning and Behavior 3- Credits

This course provides an overview of major learning theories and principles derived from animal and human research. Topics include nonassociative learning, classical conditioning, instrumental/operant conditioning, and observational learning. A final project and presentation are required.

Take PSY-101 or PSY-220. (Required, Previous). | Take PSY-250. (Recommended, Previous).

PSY-310 Industrial/Organizational Psych 3- Credits

A study of Industrial/Organizational psychological applications in the workplace. Special emphasis is placed on performance appraisal, motivation, leadership and new forms of organizational structure and function. Analytical assignments supplement text material.

Take PSY-101 or PSY-220. (Required, Previous).

PSY-313 Stereotyping & Prejudice 3- Credits

This course provides the student with an overview of the major theories and research findings concerning stereotypes, the social display and values related to stereotyping and prejudice, and the

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methods used to study stereotyping and prejudice. Topics include stereotype formation, stereotype access in social situations, social categorization, intergroup and intragroup relations, methods used to reduce prejudice and stereotype application in social situations, and the social influences on prejudice and stereotyping. Students will be expected to complete a class research project with research paper. Take PSY-101 or PSY-220. (Required, Previous).

PSY-315 Psychology of Motivation 3- Credits

An examination and analysis of important areas of research in motivation including physiological drives related to eating and sexual behaviors, the impact of stress and emotion on behavior, and the role of learned and social motivational states. Classical and modern theories of motivation are discussed. Take PSY-101 or PSY-220. (Required, Previous).

PSY-325 Social Psychology 3- Credits

This course is a study of theoretical and empirical foundations of individual social behaviors, including social cognition and perception, attitude formation and change, prosocial behavior, prejudice, aggression, interpersonal attraction, group influences, and applied legal issues. Research proposals, analytical papers, and written analyses of journal articles supplement text material. Take PSY-101 or PSY-220. (Required, Previous). | Take PSY-250. (Recommended, Previous).

PSY-330 Health Psychology 3- Credits

This course is an overview of the rapidly developing field of health psychology, which applies empirically-based psychological principles to health care, in medical, exercise, work and hospital settings. Consideration is given to individuals as well as institutions seeking to promote stress management, healthy lifestyle choices, and wellness. Readings and class activities engage students and supplement course material. Topics include health care ethics, cultural factors, coping, injury and treatment, pain management, and preventive interventions. Take PSY-101 or PSY-220. (Required, Previous).

PSY-335 Theories of Personality 3- Credits

A study of the major theoretical paradigms of personality, including psychoanalytic, trait, behavioral, and humanistic models. The student acquires an understanding of the major theories of personality along a continuum of scientific rigor, a thorough understanding of human commonalities and differences, mind/body connections, hereditary and experiential influences, psychopathology and treatment of personality disorders, self-knowledge, and applications to relationships with others. Writing assignments supplement assigned readings. Take PSY-101 or PSY-220. (Required, Previous).

PSY-340 Sport Psychology 3- Credits

This course is designed to introduce the concepts and applications of psychology to the field of sport. History and foundations, leadership, motivation, athletic performance factors, neurophysiology of arousal and attention, stress and coping, psychological skills training, aggression and violence in sports, and health issues are presented. Sports as individual and team activity within a broader framework of recreation and vocation will be addressed. A research/topical paper will supplement text, reading assignments and activities. Cross-listed as ESS-340.

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Take PSY-101 or PSY-220. (Required, Previous).

PSY-341 Exercise Psychology 3- Credits

This course examines the interactive influences that psychological factors and exercise behaviors exert upon one another. Topics include psychological and psychobiological responses to exercise, psychological theories for understanding and predicting health-oriented exercise behavior and psychological interventions for increasing exercise participation and adherence. Cross-listed as ESS-341.

Take PSY-101 or PSY-220. (Required, Previous).

PSY-350 Behavioral Neuroscience 3- Credits

This course is an overview of the latest findings from the neurosciences pertinent to relationships between behavior and the nervous system, including the neural and chemical processes underlying sensation, motivation, learning, cognition, and disorders. Dissections and supplemental readings are required.

Take PSY-101 or PSY-220. (Required, Previous).

PSY-351 Drugs and Behavior 3- Credits

This course covers the basic principles of psychopharmacology and the effects of therapeutic and illegal drugs on the brain, behavior, and psychological health. The biological, psychological, and sociological reasons for drug-seeking behavior and chemical dependency will be discussed as well as treatment and prevention methods.

Take PSY-101 or PSY-220. (Required, Previous).

PSY-355 Psychology of Religion 3- Credits

An investigation of the interrelatedness of psychology and theology in the study of religious experience and spiritual development. The study of the religious aspects of the person is approached from various psychological and theological perspectives. Cross-listed as THL-355.

Take PSY-101 or PSY-220. (Required, Previous). | Take THL-105 or THL-105S. (Required, Previous).

PSY-360 Internship in Psychology 2-3 Credits

Students are placed in a supervised experience in psychology or a related field according to their career interests and academic abilities. A minimum of five hours per week of on-the-job work is required to earn each credit. Students are evaluated by their on-the-job supervisor and by a journal submitted to the monitoring faculty member. This course may be repeated for an accumulated total of six credits. Graded S/U.

PSY-365 Psychology of Adolescence 3- Credits

This course is a study of developmental issues and experiences of adolescence viewed from major theoretical perspectives. Adolescent development is studied as a dynamic interaction of physical, cognitive and social/contextual factors. Topics include puberty, cognition, identity, sexuality, family and peers, values and beliefs, and problems of youth. Analytical homework assignments and an integrative project are required.

Take PSY-101 or PSY-220. (Required, Previous).

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PSY-367 Cross-Cultural Psychology 3- Credits

This course addresses the impact of cultural diversity, across the globe, on the study of human behavior and the mind. Topics will cover cross-cultural research methods, ethnocentrism's effect on prejudice, basic psychological processes affected by culture, gender development, health communication, self development, mental disorder, and social and organizational behavior. Short response essays, journal analyses, an analytical paper, opinion surveys, and discussions will reinforce student learning in this course. Equated to GLS-367.

PSY-370 Clinical Psychology 3- Credits

An introduction for the advanced undergraduate psychology student to the field of clinical psychology and the application of scientifically based paradigms to clinical practice. The course focuses on use of scientifically validated techniques for developing clinical case conceptualizations. Topics include history of the field, theoretical foundations of research and practice, assessment, and intervention strategies for individual, family, forensic, marital and group treatment.
Take PSY-230. (Required, Previous). | Take PSY-335. (Required, Previous).

PSY-371 Introduction to Art Therapy 3- Credits

See ART-371.
Take PSY-230. (Required, Previous).

PSY-373 Forensic Psychology 3- Credits

This course uses an issue-based approach to present the interface between psychology (clinical and socio-cultural) and legal systems and practice. Applications of psychological theories and research to legal practice will be addressed, covering the following topics: eyewitness identification, jury selection and decision-making, crime prevention, profiling, trial procedures and testimony, and the appropriate use of clinical evidence in litigation. Text/Journal articles, case analyses and a research paper are required.
Take PSY-101 or PSY-220. (Required, Previous).

PSY-380 Special Topics in Psychology 2-3 Credits

A special topic in psychology is explored. An APA-style laboratory or library research paper is required for 380 and 480. This course may be repeated for credit because its subject matter varies, for example, stereotyping and prejudice, school counseling, and psychology of human sexuality. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

PSY-385 Human Sexuality 3- Credits

This course is an exploration of human sexuality, covering physical, intrapsychic, interpersonal, and cultural aspects of the spectrum of sexuality. Students will engage in scientific investigation of a variety of topics including: sexual development over the lifespan, anatomical/physiological development, sexual attitudes and behavior, communication and consent, gender development, love and attraction, sexually transmitted diseases, and treatment of sexual dysfunction.

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PSY-405 Advanced Statistics 3- Credits

This course provides an opportunity to junior/senior level social science majors and minors for in-depth study of statistics at greater depth than POL/PSY/SOC 205. Students will learn and use analysis of covariance, multiple regression and path model fitting, and factor analysis with assigned projects. Take PSY-205 POL-206 or SOC-205. (Required, Previous).

PSY-430 Interviewing Skills for Helping Profess 3- Credits

This course introduces techniques of interviewing for personal development and use in helping professions. Topics for effective communication and building rapport include active listening, clarification, reflection, inquiry, nonverbal self-awareness and empathy. Skills will be developed and assessed through class exercises and role-plays

Take PSY-101 or PSY-220. (Required, Previous). | Take PSY-230. (Required, Previous). | Take 62 credits. (Required, Previous or concurrent).

PSY-445 Cognitive Science 3- Credits

This course is designed to provide the student with an introduction to factors that influence human thought. Research methodology and theory are emphasized and topics include attention, pattern recognition, memory, language, reasoning, and problem solving. Experiment implementation, research paper and writing assignments reflecting critical thinking are required.

Take PSY-101 or PSY-220. (Required, Previous). | Take PSY-205. (Required, Previous). | Take PSY-250. (Required, Previous).

PSY-460 Advanced Internship in Psychology 2-3 Credits

Students are placed in an advanced supervised experience in psychology or a related field according to their career interests and academic abilities. A minimum of five hours per week of on-the-job work is required to earn each credit. Students are evaluated by their on-the-job supervisor and by a journal submitted to the monitoring faculty member. This course may be repeated for an accumulated total of six credits. Graded S/U.

PSY-480 Special Topics in Psychology 2-3 Credits

A special topic in psychology is explored. An APA-style laboratory or library research paper is required for 380 and 480. This course may be repeated for credit because its subject matter varies, for example, stereotyping and prejudice, school counseling, and psychology of human sexuality. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

PSY-490 Senior Seminar in Psychology 3- Credits

In this capstone course, students demonstrate the ability to use psychological concepts and skills in the examination of a college-wide general education theme. Integrative papers, oral presentations, research projects, and convocation attendance are required. Students also begin formal preparation for graduate school or careers and perform program skills self-assessments.

Take 94 credits. (Required, Previous).

PSY-497 Directed Research I: Research Proposal 2- Credits

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This course is designed to provide the opportunity for junior and senior psychology majors to begin an independent research project under the guidance of a faculty sponsor they have chosen. Students identify a research topic, perform a literature review, create a research design and materials to investigate their topic, and write an APA-style research proposal that summarizes these activities. Successful completion of this course prepares students to enroll in 498.

PSY-498 Directed Research II: Research Project 2- Credits

Students complete the research project they began in 497 by gathering and analyzing data according to their proposal and reporting their findings with an APA-style manuscript and a formal presentation. Papers deemed to be of sufficient quality by the faculty sponsor may be presented at a regional research conference.

PSY-499 Independent Study 1-3 Credits

Guided readings and a literature review are required on a psychological topic negotiated with the supervising faculty member. May enroll for one to three credits.

SCI-101 Earth Sciences 4- Credits

This course is an introduction to the earth sciences of geology, oceanography, meteorology, and astronomy. The lab portion includes recognition and basic experimentation using science inquiry skills and methods. Three lecture hours and two lab hours per week. This course satisfies general education curriculum standards for the development of scientific knowledge.

SCI-101L Earth Sciences Lab - Credits

SCI-101 lab.

Take SCI-101. (Required, Concurrent).

SCI-102 Life Sciences 4- Credits

This course is an introduction to the life sciences of biology, ecology and environmental systems. The lab portion includes recognition and basic experimentation using science inquiry skills and methods. Three lecture hours and two lab hours per week. This course satisfies general education curriculum standards for the development of scientific knowledge.

SCI-102L Life Sciences Lab - Credits

SCI-102 lab.

Take SCI-102. (Required, Concurrent).

SCI-103 Physical Sciences 3- Credits

This course is an introduction to the physical sciences of chemistry and physics for non-science majors, focusing on the physical laws related to motion, matter and energy, electricity, electromagnetic waves, and basic concepts of chemistry. Taken in conjunction with SCI-104, this course satisfies the general education requirement in the scientific knowledge category.

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SCI-104L Physical Sciences Lab 1- Credits

This lab portion of Physical Sciences involves the conduct of multiple experiments that illustrate the principles that are basic to physical science. Two lab hours per week. Taken in conjunction with SCI-103, this course satisfies the general education requirement in the scientific knowledge category. Take SCI-103. (Recommended, Concurrent).

SCI-170 Science, the Environment, and Society 3- Credits

This course is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Three lecture hours per week. Taken in conjunction with SCI-171L or SCI-173L, this course satisfies the general education requirement in the scientific knowledge category.

SCI-171L Sci, Environmnt, & Soc- Ecolab Lab 1- Credits

Application of environmental studies methods, through field and laboratory exercises. Emphases include ecosystem function, aquatic ecology, and environmental impact measurement. One three-hour lab period. Taken in conjunction with SCI-170, this course satisfies the general education requirement in the scientific knowledge category. Take SCI-170. (Recommended, Concurrent).

SCI-173L Sci, Environmnt, & Soc- Energy Lab 1- Credits

Study of energy sources, energy efficiency, and alternative energy principles. Experiments include hands-on applications of solar and wind power, optimization of renewable energy sources, measurements of carbon dioxide and oxygen levels, and construction of fuel cells. One three-hour lab period. Taken in conjunction with SCI-170, this course satisfies the general education requirement in the scientific knowledge category. Take SCI-170. (Recommended, Concurrent).

SCI-280 Special Topic 1-3 Credits

Special topics as deemed necessary. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

SCI-301 Science and Health for the Elementary Teacher 3- Credits

This course explores science and health topics found in the elementary curriculum, including earth science—rocks, dinosaurs, volcanoes, earthquakes, weather, and astronomy; life science—plants, animals, Project Learning Tree, Project Wild, ecology, life cycles; health—body systems, nutrition, substance abuse, AIDS, sex education; and physical science—matter, atoms, electricity, magnets, energy, and machines. Lectures, hands-on laboratory experiences, and field work are included to acquaint the students with methods and techniques of science and health instruction. The field work includes visiting an elementary school throughout the semester for at least 8 hours and team teaching a minimum of two lessons.

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SCI-301L Science and Health for the Elementary Teacher Lab - Credits

SCI-301 lab.

Take SCI-301. (Required, Concurrent).

SCI-305 Global Persp in Environmental Science 3- Credits

This course covers current issues in environmental science using a global lens. This course will explore the science of environmental impact on ecosystems and human health, focusing on key international issues. Topics may include the human population, agriculture and water use, global famine, deforestation, climate change, fire, and poverty.

SCI-380 Special Topic 1-3 Credits

Special topics as deemed necessary. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

SCI-480 Special Topic 1-3 Credits

Special topics as deemed necessary. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

SEM-100 Introduction to Health Professions 1- Credits

This course is designed to introduce first year students to the field of healthcare, including exploring multiple career pathways. Students will have the opportunity to identify personal and professional issues faced by healthcare providers, reflect on their strengths and interests, and select a pathway that aligns with their goals. This seminar is appropriate for pre-health students, including pre-medicine, pre-dental, pre-physician assistant, etc. During the semester, we will explore opportunities to strengthen their candidacy for admission into professional programs while at Marian University.

SEM-300 Seminar for Health Professions 1- Credits

This course is designed to guide students in preparing their portfolio for application to a professional program in a healthcare field. Students will build networking skills and further develop their professional readiness. Additionally, students will critically reflect on their values, goals, and personal experiences to identify graduate programs that align well with their target career.

SOC-100 Experiential Learning: Community Service 1-2 Credits

Volunteer experience appropriate to the student's interest at an approved site under the supervision of a field supervisor and monitored by a faculty member. Department permission and coordination with the faculty experiential learning coordinator is required. May enroll for one or two credits. This course is open to all students. Graded S/U.

SOC-101 Introduction to Sociology 3- Credits

This course serves as a broad introduction to the social scientific field of sociology. The main features of human societies are examined; how they are organized, how they change and how they come to shape collective social existence. Explicit attention is paid to the interaction between individuals and society, how social structures shape everyday life, social inequalities and social change. This course satisfies general education curriculum standards for behavioral and social knowledge.

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SOC-145 Introduction to Social Justice 3- Credits

Introduction to Social Justice explores the nature and goals of social justice through an analysis of the sociological structures of American society. The course includes the history of social justice struggles, explorations of social inequalities, and the role of economics and politics in questions of justice. This course is required for the peace and justice studies minor.

SOC-205 Social Science Statistics 3- Credits

Basic concepts, uses, and methods of statistical computation, including descriptive statistics, correlation, probability, sampling, design, hypothesis testing, t-tests, ANOVA, regression, and chi-square tests are presented. This is a computational and interpretational statistics course designed to prepare students for upper division/graduate courses in research, data evaluation, and analytical reasoning. Use of computer software facilitates learning. This course satisfies the general education standards for foundational intellectual skills in quantitative reasoning.

Take MAT-095. (Recommended, Previous).

SOC-210 Marriage and Family 3- Credits

This course provides an analysis of the social institutions of marriage and family in historical context. Drawing on the tools and perspectives of Sociology, this class examines the definitions, meanings, and practices of families and marriages in the U.S.

Take SOC-101. (Required, Previous).

SOC-245 Sociology of Religion 3- Credits

This course provides an analysis of religious institutions, beliefs, practices and experiences in the U.S. and elsewhere in the world. Students examine the varieties of contemporary religion, how religion is adapting to contemporary social forces such as immigration and technological development, and how religion is impacted by and is impacting globalization.

Take SOC-101. (Required, Previous).

SOC-265 Introduction to Social Work 3- Credits

See SWK-110.

SOC-266 Sociology of Death and Dying 3- Credits

This course is designed to critically analyze social aspects of death, dying, and bereavement in our society. Topics include euthanasia, suicide, terminal illness, funeral and burial rituals, and culture and ethical values and problems related to death and terminal illness in contemporary society.

Take SOC-101. (Required, Previous).

SOC-270 Education and Social Inequality 3- Credits

Introduction to the comparative study of contemporary human cultures; origin and development of human institutions; social processes that influence behavior. This course partially satisfies the general education requirement in the cultural awareness category.

Take SOC-101. (Required, Previous).

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SOC-280 Special Topics in Sociology 1-3 Credits

Readings, discussions, and writing on selected topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

SOC-301 Social Science Research 3- Credits

An introduction to the basic tools and methods of social research. Both quantitative and qualitative procedures are considered. Students are required to design and carry out a complete research project as a part of this course. This course satisfies the writing intensive requirement in the students major. Take SOC-101. (Required, Previous). | Take SOC-205. (Required, Previous).

SOC-305 Sex, Gender, and Sexuality 3- Credits

This course examines the gendered construction of various social institutions, including family, religion and government, in an historical and cross-national context. S
Take SOC-101. (Required, Previous).

SOC-320 Race and Ethnic Relations 3- Credits

This course examines the historical social construction of race in the U.S., the development of racist practices by individuals and institutions, and the consequences of those practices, especially the persistence of racial inequality. This course examines U.S. racial/ethnic groups, including whites, as well as the intersections of race with other inequalities, such as class, sexuality, and gender.
Take SOC-101. (Required, Previous).

SOC-325 Social Class, Power, and Inequality 3- Credits

This course examines class, status, and power relations in society as they relate to social mobility, work, globalization, and social change.
Take SOC-101. (Required, Previous).

SOC-332 Community Organizing for Social Justice 3- Credits

See COM-332.

Take 30 credits. (Required, Previous).

SOC-335 Sociology of Health and Illness 3- Credits

This course examines the social context of health, illness, and healthcare. Topics include the social conditions of health and illness, social epidemiology, the social construction of health and illness, environmental health, advanced technologies, cultures of risk, mental health and illness, health behaviors, experiences of illness, the political economy of health and illness, and health care systems and reforms.

Take SOC-101. (Required, Previous).

SOC-336 Sociology of Deviant Behavior 3- Credits

This course is an introduction to the study of deviance and deviant behavior. This course seeks to examine societal reactions to deviant behaviors. Particular attention will be given to major theoretical perspectives in the study of deviance, and we will explore controversial topics including suicide, rape, gang related behaviors, hate crimes, moral panics, prostitution, and murder and school shootings.

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Take SOC-101. (Required, Previous).

SOC-360 Experiential Learning: Social Justice In Action 2-4 Credits

Through collaboration with community activists, students work for and provide social justice organizations analytical and research skills while gaining hands-on experience in the practical work of social justice. Course can be repeated for up to 6 credits; however, only 3 credits can count as an elective toward the Peace and Justice Studies minor. Graded S/U.

Take SOC-145. (Required, Previous).

SOC-366 Death & Dying in Global Persp 3- Credits

A comparative, anthropological examination of customs, practices, and beliefs surrounding life and death. What constitutes life? What determines well-being? How are these measured? Likewise, what constitutes a good or bad death, by what medical definition, and according to what rituals and beliefs? Practices related to grieving, memorializing the deceased, and handling of bodies will be investigated in order to understand their origins and consequences in social life.

Take GLS-101. (Required, Previous). | Take SOC-101. (Required, Previous).

SOC-375 Social Movements 3- Credits

An analysis of the processes shaping the emergence, objectives, structures, strategies, tactics and long term outcomes of representative movements aimed at social change.

Take SOC-101. (Required, Previous).

SOC-377 Global Health Issues and Interventions 3- Credits

This course is intended to provide global studies students a comprehensive examination of numerous health and illness topics within the context of social, cultural, political, and economic arenas. The goal is to provide students with knowledge that would assist them in understanding and addressing the health needs of various communities around the world. Each week we will focus on a particular health-related issue and will include an initial lecture with key points, followed with a tutorial/workshop, and conclude with discussion and debate. Students are expected to engage in weekly readings, gain practical insight into current global medical issues, and apply appropriate frameworks in response to global medical issues. Students are also expected to follow the key points for each lecture, and engage fruitfully and intellectually into class discussions and debates with substantiated information. Cross-listed as GLS-377.

Take GLS-101 or SOC-101. (Required, Previous).

SOC-380 Special Topics in Sociology 1-3 Credits

Readings, discussions, and writing on selected topics. See course section comments for description.

Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

Take SOC-101. (Recommended, Previous).

SOC-451 Social Psychology 3- Credits

This course examines the reciprocal relationship between the social group and the self. Symbolic interactionism is used as the major frame of reference for the analysis of social processes, all forms of interaction and the relationship between the individual and the norms and patterns that constitute society. This course is only offered through the MAP program beginning in fall 2023.

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Take SOC-101. (Required, Previous). | Take 62 credits. (Required, Previous).

SOC-460 Internship in Sociology 2-4 Credits

Students are placed in a supervised experience in social work or social sciences-related field according to their career interests and academic abilities. A minimum of five hours per week of on-the-job work is required to earn credit. Students are evaluated by their on-the-job supervisor and by a journal submitted to the monitoring faculty member. This course may be repeated for up to 6 credits. Internship/service learning credits do not count toward credits required in the major. Grade S/U. Take 62 credits. (Required, Previous).

SOC-490 Sociology Seminar 3- Credits

Seminar students engage in intensive reading and discussion of capstone issues in the social sciences linked to the college-wide general education theme of the year. Papers, class presentations, and discussion and attendance at college-wide events in support of the general education theme are required. Student research papers from SOC 301 are developed for public presentation or publication. Students also begin preparation for graduate school or careers. Take SOC-301. (Required, Previous). | Take 94 credits. (Required, Previous).

SOC-499 Independent Study 3- Credits

Guided readings and research. May enroll for 1-3 credits.

SPA-101 Introduction to Spanish I 3- Credits

Students will identify social and cultural norms in the Spanish-speaking world and compare them to their own cultural practices. They will also learn to ask and answer simple questions and write and interpret simple texts on everyday topics in the present tense. This course is conducted in Spanish. Take SPA-101P LANG-NT or SPA-NT. (Required, Previous).

SPA-102 Introduction to Spanish II 3- Credits

Students will engage in appropriate behavior in specific cultural and social contexts in Spanish, ask and answer questions, and write and interpret texts on familiar topics. Students will also describe cultural products and practices in the Spanish-speaking world and reflect on and compare their own cultural products, practices, and perspectives. This course is conducted in Spanish. Take SPA-101 or SPA-102P. (Required, Previous).

SPA-125 Spanish for Ministry 3- Credits

Students will develop their language skills for liturgical celebrations, preaching, general ministries to those in need of pastoral care, and other facets of pastoral ministries. Students will also assemble and explain some of the Catholic Pastoral documents on Hispanic Ministries to meet the needs of an expanding, diversified ecclesial landscape. This course is conducted in Spanish. Take SPA-102. (Required, Previous).

SPA-180 Special Topics in Spanish 1-3 Credits

Study of a selected topic in Spanish or Spanish-American literature, current affairs, business or professional communication, or the media. Specific topics and the designated course credit are

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published in the semester class schedule. Advanced communication skills developed through a semester abroad experience also apply as a special topic. For credits earned through a study abroad experience, selected topics are approved by the advisor in Spanish and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once. Class is taught in Spanish. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

SPA-200 Intermediate Spanish I 3- Credits

Students will engage in culturally appropriate, spontaneous conversations on concrete and relevant topics of interest and write and interpret texts of increasing complexity on a diverse range of topics. Students will also investigate and discover cultural products and practices in the Spanish-speaking world and connect them to their own cultures. This course is conducted in Spanish. Take SPA-102 or SPA-200P. (Required, Previous).

SPA-201 Intermediate Spanish II 3- Credits

Students will advance their ability to engage in spontaneous conversations and interpret and write both fictional and non-fictional texts on concrete and some abstract topics. Students will also research cultural products and practices and compare cultural perspectives between their own cultures and those in the Spanish-speaking world. This course is conducted in Spanish. Take SPA-200 or SPA-201P. (Required, Previous).

SPA-213 Spanish for Mental Health Professionals 3- Credits

This course is designed for mental health providers and social workers attempting to break through language and cultural barriers between themselves and their Spanish-speaking clients. This course includes case simulations representing a range of stressful situations that a social worker, psychologist, psychiatric nurse, psychiatrist, or ministry leader might encounter among recently arrived immigrants from Spanish-speaking countries. Take SPA-201 or SPA-ADV. (Required, Previous).

SPA-214 Spanish for Healthcare Professionals 3- Credits

This course is devoted to the study of medical Spanish terminology and the cultural issues related to successful interactions with Spanish-speaking patients and their families in the clinical encounter. It will introduce the student to a wide array of vocabulary particular to the medical field, as well as help the student develop a cultural understanding of medicine and illness in the Spanish-speaking world to prepare for potential work with Spanish-speaking patients in future careers in medicine, nursing, social work, and or mental health settings. Take SPA-201 or SPA-ADV. (Required, Previous).

SPA-220 Introduction to Hispanic Lit Studies Literature 3- Credits

Development of skills required to read for information, to comprehend major ideas, and to analyze different literary forms of average difficulty. Readings are selected from works of Spanish and Spanish-American authors from the twelfth to the twenty-first centuries and grouped according to genre. Class is taught in Spanish. Take SPA-201 or SPA-ADV. (Required, Previous).

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SPA-230 Oral Communication in Spanish 3- Credits

In this community-engaged course, students will develop speaking and listening strategies by engaging in conversation both inside and outside of the classroom. They will acquire effective oral communication techniques, prepare and deliver brief oral reports, and debate topics of civic and personal interest. Through the use of authentic materials such as video, audio recording, and interactions with native speakers, students will practice their speaking and listening skills. Class is taught in Spanish. Take SPA-201 or SPA-ADV. (Required, Previous).

SPA-280 Special Topics in Spanish 3-9 Credits

Study of a selected topic in Spanish or Spanish-American literature, current affairs, business or professional communication, or the media. Specific topics and the designated course credit are published in the semester class schedule. Advanced communication skills developed through a semester abroad experience also apply as a special topic. For credits earned through a study abroad experience, selected topics are approved by the advisor in Spanish and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once. Class is taught in Spanish. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar. Take SPA-201 or SPA-ADV. (Required, Previous).

SPA-310 Written Communication in Spanish 3- Credits

Review of the essentials of Spanish grammar with application to composition. The course is designed to help students write social and business correspondence, write cohesive summaries and resumes, as well as narratives and descriptions of a factual nature. Required course for teacher certification. Class is taught in Spanish. Take SPA-201 or SPA-ADV. (Required, Previous).

SPA-311 Span for Heritage Speakers 3- Credits

This course will provide students whose family language is Spanish with the tools to improve their written communication skills. Students will expand their knowledge of Hispanic cultures and be exposed to a variety of social and cultural contexts. Course is taught in Spanish. Take SPA-201 or SPA-ADV. (Required, Previous).

SPA-315 History and Culture of Spain 3- Credits

A survey study of the history, topography, art, literature, music, and social aspects of Spain. Students explore contemporary issues through film, periodicals and interviews. Class is taught in Spanish. Take SPA-220 SPA-310 or SPA-ADV. (Required, Previous).

SPA-325 Latino Catholic Culture 3- Credits

This course is an overview of Latino culture specifically through the lens of Catholic identity so that students are equipped with the linguistic and analytical skills to encourage an inclusive Catholic community in accordance to the Franciscan values. Through an overview of the historical, political, social and especially artistic markers that have shaped the Latino Catholic Church, this course aims to introduce students to the issues and encourage students to reflect on possible solutions. All students who want to work in the Church in any capacity are encouraged to take this course. English is the

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language of instruction. Students taking the course as SPA-325 will read and write in Spanish. Cross-listed as LAC-325.

Take SPA-201 or SPA-ADV. (Required, Previous).

SPA-330 Spanish for Business I Contexts I 3- Credits

This course will introduce students to the Hispanic business world, the larger political and socio-economic context within which it is rooted and provide students with an overview of Hispanic countries as global market players. Students will learn about financial, economic, political, social, environmental and cultural issues that influence business practices in Latin America and in Spain. Additionally, students will connect with the Hispanic business community in Indianapolis and assess the importance of Spanish to local business practices. Cross-listed as MGT-334. Class is taught in Spanish.

Take SPA-201 or SPA-ADV. (Required, Previous).

SPA-331 Spanish for Business II Contexts II 3- Credits

This course is the second semester of the sequence in Business Communication in Global Contexts. It will provide in-depth knowledge to the Hispanic business world. Students will use business-specific Spanish language in professional contexts and develop a deeper understanding of corporate culture and norms. Students will also produce relevant business documents such as resumes, cover letters and other professional correspondence. Additionally, students will connect with the Hispanic business community in the United States and assess the importance of Spanish to national and global business practices. Class is taught in Spanish.

Take SPA-201 or SPA-ADV. (Required, Previous).

SPA-335 Latino Voices in the US 3- Credits

This community-engaged learning course is a study of the diverse Latino population of the United States. Literature, film, music, and interdisciplinary scholarship serve as the basis for our study of the social, economic, and political situations of this growing population. This course continues development of the students Spanish language skills through reading and writing assignments in Spanish. For students registered under LAC 335, readings, writing and discussion assignments are in English. Cross-listed as LAC-335.

Take SPA-220 or SPA-310. (Required, Previous).

SPA-337 Teaching World Languages 3- Credits

This course introduces students to current pedagogical theory and evidence-based practices associated with world language teaching and learning. Students will read research on language acquisition, learn strategies for fomenting acquisition in the classroom, and apply those strategies to create unit and lesson plans and evaluate language classes.

Take SPA-201 or SPA-ADV. (Required, Previous).

SPA-345 Spanish Cultural Studies 3- Credits

This course will examine the cultural artifacts (film, art, media, music, and literary texts) of contemporary Spain as a way of understanding different aspects of Spanish society. This course is designed to familiarize students with the major issues as well as support students in building language proficiency. Class is taught in Spanish.

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Take SPA-220 SPA-310 or SPA-311. (Required, Previous).

SPA-350 History and Culture of Latin America 3- Credits

A study of the history, topography, art, philosophy, literature, and sociological aspects of Hispanoamerica. Students explore culture through film, recordings, journals, and personal interviews. This course partially satisfies the general education requirement in the cultural awareness category. Class is taught in Spanish.

Take SPA-220 or SPA-310. (Required, Previous).

SPA-355 Hispanic Artistic Expressions 3- Credits

This course provides a multi-dimensional perspective of the diversity of cultural expressions through the analysis of films, media, art (music, painting, dance, performance) and literary works. This course continues to develop students' language skills in Spanish and is therefore conducted in Spanish

Take SPA-220 or SPA-310. (Required, Previous).

SPA-360 Internship/Practicum in Spanish 1-6 Credits

An approved internship or work experience using the student's proficiency in the Spanish language. Student may enroll in one to six credits, with a maximum of three credits applying toward the major. Graded S/U.

Take SPA-230 or SPA-ADV. (Required, Previous).

SPA-380 Special Topics in Spanish 3-9 Credits

Study of a selected topic in Spanish or Spanish-American literature, current affairs, business or professional communication, or the media. Specific topics and the designated course credit are published in the semester class schedule. Advanced communication skills developed through a semester abroad experience also apply as a special topic. For credits earned through a study abroad experience, selected topics are approved by the advisor in Spanish and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once. Class is taught in Spanish. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

Take SPA-220 SPA-310 or SPA-311. (Required, Previous).

SPA-400 Contemporary Hispanic Themes 3- Credits

Major themes of contemporary Spanish or Latin American society. Course may focus on a particular region, period, or country from late twentieth century to the present. Class is taught in Spanish.

Take SPA-220 SPA-310 or SPA-311. (Required, Previous).

SPA-460 Internship/Practicum in Spanish 1-6 Credits

An approved internship or work experience using the student's proficiency in the Spanish language. Student may enroll for one to six credits; a maximum of three credits may apply toward the major. Graded S/U.

Take SPA-310 or SPA-311. (Required, Previous).

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SPA-480 Special Topics in Spanish 3-9 Credits

Study of a selected topic in Spanish or Spanish-American literature, current affairs, business or professional communication, or the media. Specific topics and the designated course credit are published in the semester class schedule. Advanced communication skills developed through a semester abroad experience also apply as a special topic. For credits earned through a study abroad experience, selected topics are approved by the advisor in Spanish and the Director of Study Abroad at the time of application. Topics vary from one semester to the next to allow students to take the course more than once. Class is taught in Spanish. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

Take SPA-220. (Required, Previous).

SPA-490 Senior Seminar 1- Credits

The seminar addresses the college-wide general education senior theme and text for that year. The common senior experience includes discussion sessions, a convocation presentation, a timed written essay, and an objective test assessment based upon general education goals. Spanish majors register concurrently in SPA-498.

Take 94 credits. (Required, Previous).

SPA-498 Guided Research for Majors 2- Credits

This course serves as a comprehensive review and demonstration of skills acquired by the Spanish major. Students prepare specific projects which incorporate communication skills, cultural understanding, and the ability to research, refine, organize, and present a topic of particular interest. The course requires a term paper and an oral presentation of the research in Spanish. It is a capstone course and satisfies the degree requirement for the senior comprehensive.

Take 94 credits. (Required, Previous).

SPA-499 Independent Study 2-3 Credits

Guided readings and research.

Take 62 credits. (Required, Previous).

SPD-130 Introduction to Exceptional Children 3- Credits

This course is an introduction to the variety of exceptional conditions found in children. Definitions, identification, prevalence, characteristics, and educational needs of the various types of exceptional children will be presented. Information on the roles of the local school agency, the state, and the federal government as they pertain to the education of exceptional children will also be covered. This is a lab course which includes visitations to several school programs and private agencies dealing with children with special needs.

SPD-130L Introduction to Ex Children Lab - Credits

Introduction to Ex Children Lab

Take SPD-130. (Required, Concurrent).

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SPD-230 Intro to Special Education for General Education Teachers 3- Credits

Students utilize knowledge of the 13 areas of exceptionalities to effectively educate all students in their future classroom through differentiation, curriculum design, and evidence based practices. This exploration includes historical foundations, current law, developmental theories, evidence based practices, research, and teaching methodology designed to promote individualized student growth in an inclusive general education classroom. A unique blend of coursework and fieldwork ties theory to practice.

SPD-230L Intro to Sped for Gen Ed Tchrs Lab - Credits

Intro to Sped for Gen Ed Tchrs Lab

Take SPD-230. (Required, Concurrent).

SPD-233 Assessment of Children With Exceptional Needs 3- Credits

This course examines the causes and types of learning problems found in children with Exceptional Needs. Students learn how the teacher can assess children with learning problems. Formal psychological evaluation tools are examined and the value of the information to the classroom teacher is discussed.

Take SPD-130. (Required, Previous or concurrent).

SPD-233L Assess of Chldn With Ex Needs Lab - Credits

Assess of Chldn With Ex Needs Lab

Take SPD-233. (Required, Concurrent).

SPD-338 Exceptional Needs: Methods and Program Management 3- Credits

This course will assist candidates in developing and adapting the curriculum in order to meet the needs of children with exceptional needs. Specific instructional strategies and materials will be reviewed. In-depth reading and writing and experience in school settings are expected.

Take SPD-130. (Required, Previous).

SPD-354 Methods for Transition and Career Assessment 3- Credits

This course examines the assessment and instructional methodology needed to implement and evaluate, career transition career transition vocational programs and post-secondary opportunities that promote successful post-school adjustments for students with mild to moderate disabilities.

Take SPD-130. (Required, Previous).

SPD-354L Mthds Trans & Car Assess Lab - Credits

Mthds Trans & Car Assess Lab

Take SPD-354. (Required, Concurrent).

SPD-369 Applied Behavior Programming in Special Education 3- Credits

The course reviews the theoretical foundations for developing research based interventions and management strategies to deal with inappropriate classroom behaviors, as well as strategies for individualized education program (IEP) development and implementation of effective behavior plans. A clinical field experience is required.

Take SPD-130. (Required, Previous).

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SPD-369L Applied Behavior Programming in Special - Credits

SPD-369 lab.

Take SPD-369. (Required, Concurrent).

SPD-439 Exceptional Needs: Collaboration and Consultation 3- Credits

This course focuses on collaboration themes common to various educational settings: delivery of special educational programming, interpersonal communication, problem solving, cultural diversity, teamwork, and family systems theory. Students examine techniques that promote effective communication between teachers, school administrators and related professionals, families of students and students with exceptional needs.

Take SPD-130. (Required, Previous).

SPD-439L Collaborative Consultation Lab Consultation - Credits

SPD-439 lab.

Take SPD-439. (Required, Concurrent).

SPD-533 Assessment of Children With Exceptional Needs 3- Credits

An in-depth study of theoretical principals of measurement, assessment and evaluation necessary for appropriate identification and determination of individual needs of students eligible for services. Required participation in interdisciplinary, psycho-educational assessment of exceptional children. Analysis and interpretation of assessment data; formulation of educational programming for exceptional children

SPD-538 Exceptional Needs: Methods and Program Management 3- Credits

This course examines the instructional and organizational skills and methodology necessary for effective programming for students who receive special education services. Topics of primary emphasis include developing effective programming for inclusion, data driven analysis, remediation and skill development.

SPD-540 Legal Aspects & Current Issues in Special Education 3- Credits

This survey course reviews litigated and legislated standards, providing analytic perspective for special education and related services for persons with disabilities. Students explore current issues in the provision and delivery of services for persons with disabilities, including inclusion, transitions, implementation of IEPs, the response to intervention (RTI), and regulations for eligibility.

SPD-549 Exceptional Needs: Collaborative Consultation 3- Credits

This course focuses on collaboration themes common to various educational settings: delivery of special educational programming, interpersonal communication, problem solving, cultural diversity, teamwork, and family systems theory. Students examine techniques that promote effective communication between teachers, school administrators and related professionals, families of students and students with exceptional needs.

SPD-552 Literacy Assessment & Instruction for Special Needs Learners 3- Credits

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This course offers an examination for graduate study of instructional literacy strategies, literacy resources, and assessment approaches in K-12 reading education. Students examine and apply how to teach and improve the reading performance of students (K-12) utilizing scientifically based reading and literacy research; linguistic, cultural and social, and psychological theories and factors related to reading acquisition and achievement; and how and when various theories are applied to instructional literacy and reading practices.

SPD-553 Teaching Reading Pre K-Elementary 3- Credits

This foundation and application course provides a focused basis of instructional literacy strategies, literacy resources, and assessment approaches in pre- K-6 reading education designed to teach reading to young students with exceptional needs. Participants will learn to apply strategies designed to improve the reading performance of elementary/middle school students with mild to moderate disabilities.

SPD-554 Methods for Transition and Career Assessment 3- Credits

This course examines the assessment and instructional methodology needed to implement and evaluate, career transition vocational programs and post- secondary education opportunities that promote successful post-school adjustments for students with mild to moderate disabilities.

SPD-555 Language Methods in Special Education 3- Credits

This course reviews theoretical foundations connecting knowledge to appropriate, effective research based methodology and teaching strategies that can be used by teachers with students who have difficulty with receptive, expressive and written language. Instructional methods include both curriculum modifications and teacher-devised tasks.

SPD-557 Mathematics Methods in Special Education 3- Credits

This course offers an examination of the mathematical foundations, Numeration, Algebra, Geometry, Measurement, Data Analysis and Probability, Mental Computation and Estimation, Foundations for Problem Solving and Applied Problem solving. Participants will review current effective research based instructional strategies for the sequential and hierarchical nature of the discipline.

SPD-560 Internship in Special Education 3- Credits

This course, scheduled midway through the program, provides supervised experiences in the education of children and youth in grades Kindergarten through twelve who require special education services. The internship sites and activities are assigned according to each student's interest and training needs. The participant implements foundational knowledge, skills, and dispositions gained in course work in the areas of assessment, instruction, classroom management, and individual behavior intervention. Graded S/U.

SPD-571 Instruction With Assistive Technology 3- Credits

This course reviews access to General Education Curriculum with Technology Accommodations (Lab Class). Class members investigate student characteristics, the collaborative role of educators, and strategies for differentiating instruction for students with exceptional needs within the general education environment. Participants examine universal design for learning approaches and technologies to improve student inclusive participation in educational programs.

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SPD-573 Applied Behavior Programming in Special Education 3- Credits

This course reviews the theoretical foundations for developing research based interventions and management strategies to deal with inappropriate classroom behaviors, as well as strategies for individualized education program (IEP) development and implementation of effective behavior plans.

SPD-580 Special Topics in Special Education 1-3 Credits

Selected topics approved by the Educator's College. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

SPD-585 Capstone in Special Education 3- Credits

The candidate will research, design and implement programming that dramatically changes outcomes for students with exceptional needs.

SPD-590 Research in Special Education 3- Credits

Instruction in the development, conduct, and reporting of research in a selected area: Design and appraisal of current practices and methodology, pedagogy and other areas of applied sciences and special education.

SPD-599 Independent Study 1-3 Credits

This course is designed to provide the student with an opportunity to gain or enhance their knowledge and to explore an area of interest special education.

SPD-650 Behavior Analytic Concepts & Principles 3- Credits

See BEH-650

SPD-652 Adv. Behavior Analytic Principles & App 3- Credits

See BEH-652

Take SPD-650. (Required, Previous).

SPD-654 Behavior Assessment and Change 3- Credits

See BEH-654

Take SPD-650. (Required, Previous).

SPD-656 Ethical Practice of Behavior Analysts 3- Credits

See BEH-656

SPD-658 Verbal Behavior Foundations & Design 3- Credits

See BEH-658

SPD-660 Experimental Design & Data Analysis 3- Credits

See BEH-660

Take SPD-650. (Required, Previous).

SPD-662 Personnel Development and Management 3- Credits

ATTENTION: The below descriptions should only be referenced for the 2023-24 academic year. All real-time course descriptions are available in the live [University Catalog of Courses and Sections Offerings](#).

See BEH-662

Take SPD-650. (Required, Previous). | Take SPD-652. (Required, Previous).

SPD-667 Consult & Collaboration in Ed 3- Credits

This course is designed to provide students who wish to practice in educational settings a specific set of knowledge and skills. During this course, students will learn the consulting model when practicing in the education settings.

Take SPD-650. (Required, Previous). | Take SPD-652. (Required, Previous). | Take SPD-654. (Required, Previous). | Take SPD-656. (Required, Previous). | Take SPD-658. (Required, Previous). | Take SPD-660. (Required, Previous). | Take SPD-662. (Required, Pr

STA-205 Elementary Applied Statistics 3- Credits

A study of basic statistical methods with a focus on applied data analysis. Develops proficiency in the use of descriptive methods, sampling, linear regression and correlation, chi-square family of test, Z family of test, T family of test, and One-Way ANOVA and 2-way ANOVA with discussion of higher-level experimental designs. Explores hypothesis testing, probability theory and distributions, statistical inference techniques for estimation and hypothesis testing from a non-calculus-based framework. Reviews applications across natural, managerial, and social sciences. Software will be introduced for data visualization including graphical and numerical displays of data and generation of reports for statistical summaries. Computer lab sessions for an important part of the course.

Take MAT-095 MAT-GENP or MAT-GEN. (Required, Previous).

SWK-110 Introduction to Social Work 3- Credits

This course is an introduction to the profession of social work and the social welfare system. The historical development of the field, including prominent persons, events and legislation, and the National Association of Social Workers Code of Ethics are emphasized. Along with fundamental theoretical concepts and practices in the field, students are introduced to issues of discrimination in marginalized populations. Cross-listed as SOC-265.

SWK-145 Introduction to Social Justice 3- Credits

see SOC-145

SWK-200 Human Behavior and the Social Environment 3- Credits

An exploration of why humans behave the way that they do. Empirically-supported theories and knowledge are used to understand reciprocal relationships among human biological, psychological, spiritual, social, and cultural systems, with a focus on at-risk and oppressed populations and cultures.

Take SWK-110. (Required, Previous).

SWK-237 Global Social Work 3- Credits

This course introduces students to concepts related to the global development of social work, preparing students for work at the micro, mezzo, and macro levels in a global context. Students will explore how political, economic, cultural, faith-based, historical, and environmental factors impact social welfare policies and the delivery of human services in different regions of the world. Issues that may be included are: human rights, provision of basic life necessities, hunger and nutritional insufficiency, education,

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economic development, strains related to urbanization and modernization, ethnic conflict, environment and community health, and immigrant and migration rights. Course readings, discussion, and assignments will focus on the difference between what is universal and what is culturally specific about social welfare issues and interventions, and the ways that these must be adapted to increase their relevance for work in developing regions of the world, in international aid or relief organizations, and in programs for immigrants and refugees in this country.

Take GLS-101. (Required, Previous). | Take SWK-110. (Required, Previous).

SWK-240 Grief and Loss 3- Credits

The course is designed as an advanced clinical skills elective for social work and other students who wish to increase their knowledge and skills in working with individuals and families who experience grief and loss. This is not a "death and dying" course, for the losses clients encounter might include; chronic illnesses experienced by oneself or a significant other, aging, divorce, the loss of work, moving to a new town, children moving out of the house, or the loss of meaning in one's life. The primary goal of this course is to equip students entering the helping professions with the tools required to assist clients deal with loss, bereavement and mourning. Students will study evidenced- based applications of theory to practice with identified at-risk populations. Special vulnerabilities and ethical concerns for at- risk populations will be examined.

SWK-251 Case Management 3- Credits

This course covers the basic components of effective case management techniques and strategies in a social service setting. Topics include assessment, documentation, effective communication, treatment planning, service coordination, identifying resources, and self -care. Upon completion, students should be able to effectively manage the care of the whole person from initial contact through termination of services.

SWK-270 Social Welfare Policy and Programs 3- Credits

Introduces the historical development, mission, and philosophy of social welfare in the United States with a focus on the analysis of current social welfare programs. Focuses on economic, religious, political, and other socio-cultural influences on contemporary welfare policies and services.

Take SWK-110. (Required, Previous).

SWK-280 Special Topics in Social Work 1-3 Credits

Readings, discussions, and writing on selected topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

SWK-310 Social Work Practice With Individuals And Families 3- Credits

A presentation of basic knowledge, skills, and theory used for professional practice with individuals and families, such as biopsychosocial assessment techniques, interviewing skills, crisis intervention, and referral procedures. The course objectives will teach students how to engage, plan, assess, intervene, and evaluate micro-level practice.

Take SWK-110 PSY-101 or SOC-101. (Required, Previous).

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SWK-320 Race and Ethnic Relations 3- Credits

see SOC-320

Take SOC-101. (Required, Previous).

SWK-325 Social Class, Power, and Inequity 3- Credits

see SOC-325

Take SOC-101. (Required, Previous).

SWK-350 Social Work Research and Assessment 3- Credits

This course presents a broad range of research and assessment tools that social workers can use to improve the effectiveness and efficiency of their practice, such as tests and diagnostic tools are studied in depth. The course includes methodological considerations relating to operationalizing concepts, research design (experimental, survey, and field), sampling instrumentation, methods of data collection and analysis, and report preparation and dissemination. This course satisfies the writing intensive requirement in the students major.

Take PSY-205 or SOC-205. (Required, Previous). | Take SWK-110. (Required, Previous).

SWK-360 Social Work Practicum I 3- Credits

Students are placed in a supervised experience in a social work field according to their career interests and academic abilities. A minimum of ten hours per week of on-the-job work is required to earn credit. Students are evaluated by their on-the-job supervisor and by a journal submitted to the monitoring faculty member. Grade S/U.

Take 62 credits. (Required, Previous).

SWK-380 Special Topics in Social Work 1-3 Credits

Readings, discussions, and writing on selected topics. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

SWK-410 Social Work Practice With Groups 3- Credits

A presentation of basic knowledge, skills, and theory used for professional practice with both task and treatment groups, such as the dynamics of small group process and appropriate practitioner interventions. The course objectives will teach students how to engage, plan, assess, intervene, and evaluate mezzo-level practice.

Take SWK-310 or PSY-430. (Required, Previous).

SWK-415 Social Work Practice With Organizations And Communities 3- Credits

A presentation of basic knowledge, skills, and theory used for professional practice within organizational, neighborhood, and community contexts. Change strategies such as mobilization, social action, citizen participation, advocacy, and services development are explored. The course objectives will teach students how to engage, plan, assess, intervene, and evaluate macro-level practice.

Take SWK-310 POL-102 HIS-217 SOC-375 or HIS-375. (Required, Previous).

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SWK-460 Social Work Practicum II 3- Credits

Students are placed in a supervised experience in a social work field according to their career interests and academic abilities. A minimum of ten hours per week of on-the-job work is required to earn credit. Students are evaluated by their on-the-job supervisor and by a journal submitted to the monitoring faculty member. Grade S/U.

Take 62 credits. (Required, Previous).

SWK-461 Social Work Practicum III 3- Credits

Students are placed in a supervised experience in a social work field according to their career interests and academic abilities. A minimum of ten hours per week of on-the-job work is required to earn credit. Students are evaluated by their on-the-job supervisor and by a journal submitted to the monitoring faculty member. Grade S/U.

Take 62 credits. (Required, Previous).

SWK-490 Senior Seminar 3- Credits

Seminar students engage in intensive reading and discussion of capstone issues in social work linked to the college-wide general education theme of the year. Papers, class presentations, and discussion and attendance at college-wide events in support of the general education theme are required. Students also begin preparation for graduate school or careers.

Take 94 credits. (Required, Previous).

SWK-499 Independent Study 1-3 Credits

Guided readings and research. May enroll for 1-3 credits.

THE-105 Theatre Production 0.5-1 Credits

Open to all students by audition or interview, Theatre Production is an ensemble of performers and technicians focused on mounting the Department of Theatre show(s) each semester. Students are involved as performers, technicians, designers, and stage managers. Enhancement courses, such as THE-105, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree.

THE-110 Introduction to Theatre 3- Credits

A survey of all aspects of the theatre arts experience including studies of dramatic literature, history, performance, design, and stagecraft. Through play readings, viewings of live and filmed performances, and hands-on activities, students will be exposed to the world of theatre; a complex, collaborative, and multi-disciplined art that can both enrich their lives and enhance their academic and professional careers.

THE-112 Global Traditions in Theatre 3- Credits

This course explores theatre arts experiences around the world by investigating the origins of non-Western traditions in theatre and discovering how these traditions have influenced modern performances today. Through play readings, viewings of live and filmed performances, research projects, and hands-on activities, students will be exposed to a complex, collaborative, and multi-disciplined art that can both enrich their lives and enhance their academic and professional careers.

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THE-120 Acting I 3- Credits

Fundamental techniques in acting with practice in pantomime, improvisation, movement and vocal production. Students learn through performing in class exercises, improvisations and scenes while also learning to observe and evaluate their classmates' work and the work of professional actors.

THE-130 Stagecraft 3- Credits

This fundamental course in theatre includes both theoretical and practical introductions to the basics of set construction, rigging, scene painting, and lighting. Theatrical problems are presented to be solved creatively and collaboratively after being acquainted with the standard materials, methods, and tools of the Theatre artisan.

THE-143 Musical Theatre Dance Techniques 2- Credits

This course is designed to introduce students to fundamental dance techniques used in musical theatre through exposure to the different styles of the great choreographers in musical theatre history. Students will learn dance vocabulary, strategies for audition, and proper dance technique while performing with the class. Cross-listed as MUS-143.

THE-201 Three-Dimensional Design Concepts 3- Credits

See ART-201.

THE-206 Visual Design Concepts 3- Credits

See ART-206.

THE-225 Music Theatre Performance Workshop 3- Credits

See MUS-200.

THE-231 Design for Theatre I 3- Credits

This course is an introduction to the history, styles and techniques of stage scenery, lighting and costumes. Students will learn the development of conceptual ideas, which are inspired by a dramatic text, to the finished product on the stage. A strong understanding of the theatrical vernacular is emphasized as students are encouraged to communicate their ideas through several mediums including written presentations, sketches, drafting, rendering and three-dimensional models.

THE-235 Oral Interpretation of Literature 3- Credits

See COM-235.

THE-245 Page to Stage: Studies in Dramatic Literature and Performance 3- Credits

This course offers students a detailed examination of four plays in the semester through textual and performance analysis. Students will learn how dramatic literature is translated to the stage, analyze thematic choices, style, and content, and determine how these factors together make cohesive theatrical productions and promote intentional as well as unintentional meanings. The course may be repeated for credit since subject matter varies each semester. Enrollment in this course requires attending performances. Cross-listed as ENG-245.

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THE-250 Applied Theatre and the Franciscan Value 3- Credits

This course explores the intersection of our Franciscan Values and theatre applications outside of the traditional theatre setting. A combination of classroom-based learning and hands-on, community-based learning, this service engagement course engages theatre practice to explore its role in advancing social justice. This course will meet regularly off campus and require access to public or private transportation.

THE-260 Theatre Arts Practicum 3- Credits

Students work in supervised industry positions related to theatre arts. Practica are expected to be entry-level positions giving students an introduction to any number of fields within the theatre arts (carpentry, costuming, painting, electrical, etc.). Placements may or may not be paid positions. Students are evaluated both by their workplace supervisor and by means of a paper submitted as an end-of-course project to the monitoring faculty. A minimum of 60 hours of actual work experience is required to earn one credit. Graded S/U.

Take 30 credits. (Required, Previous).

THE-268 History of Musical Theatre 3- Credits

See-MUS-268.

THE-275 Intro to Film Production 3- Credits

See COM-275.

THE-280 Special Topics in Theatre 3- Credits

Explores specialized areas of study in theatre. Topics may include, but are not limited to, advanced studies in design or performance in theatre, dramatic literature, technical theatre, and etc. The course may be repeated for credit since subject matter varies each semester. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

THE-310 Survey of Dramatic Literature 3- Credits

This course exposes the student to critical approaches to representative major plays and playwrights throughout history.

THE-320 Acting II 3- Credits

Building on the concepts and techniques learned in Acting I (THE-120), this class concentrates on applying a more specific approach to acting through detailed scene analysis, exploration of objective, obstacle and subtext, reading and research of major acting techniques, and performance of contemporary scenes.

Take THE-120. (Required, Previous).

THE-331 Design for Theatre II 3- Credits

This course will build upon what is learned in Design for Theatre I. Students will refine and deepen their understanding of the history, styles, and techniques of stage scenery, lighting, and costumes. Students will be expected to communicate their ideas through several mediums including written presentations, sketches, drafting, rendering, and three-dimensional models.

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THE-335 Shakespeare 3- Credits

See ENG-330.

Take ENG-112. (Required, Previous).

THE-360 Internship in Theatre 3- Credits

Students work in supervised industry positions related to theatre arts. Internships are expected to be higher than entry level placements, and may or may not be paid positions. Students are evaluated by both their onsite supervisor and by means of a paper submitted as an end-of-course project to the monitoring faculty. A minimum of 60 hours of actual work experience is required to earn one credit. Graded S/U.

Take 62 credits. (Required, Previous).

THE-380 Special Topics in Theatre 3- Credits

Topics may include, but are not limited to, advanced studies in design or performance in theatre, dramatic literature, technical theatre, and etc. The course may be repeated for credit since subject matter varies each semester. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

THE-450 Directing 3- Credits

This course will immerse the student in the stage director's process: selecting and analyzing scripts, developing an approach to the material, seeking inspiration, collaborating on the project, and converting vision to reality in rehearsal. Students will engage with scenes of various styles from realism to less-literal forms of theatre

Take THE-120. (Required, Previous). | Take THE-231. (Required, Previous).

THE-460 Internship 1-3 Credits

Students work in supervised industry positions related to theatre arts. Internships are expected to be higher than entry level placements, and may or may not be paid positions. Students are evaluated by both their onsite supervisor and by means of a paper submitted as an end-of-course project to the monitoring faculty. A minimum of 60 hours of actual work experience is required to earn one credit. Graded S/U.

Take 62 credits. (Required, Previous).

THE-490 Senior Seminar in Theatre 3- Credits

In this capstone course students extend their knowledge and abilities gained in their study of theatre by preparing a final project for public presentation highlighting the student's particular individual interest in theatre (i.e. design, acting, directing, dramaturgy, etc.) and compiling their senior portfolio. Incorporates the general education senior topic and text.

Take 94 credits. (Required, Previous).

THE-499 Independent Study in Theatre 3- Credits

Course may include guided readings, research or production projects.

Take 62 credits. (Required, Previous).

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THL-100 The Practice of Prayer 1- Credits

An enrichment course with the primary emphasis on the act of praying. The focus is on personal spiritual development. Specific prayer experiences determined by individual facilitator(s) each semester. Enhancement courses, such as THL-100, may be repeated for credit, with a maximum of 12 credits earned toward a bachelor degree or six credits toward an associate degree. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-103 Catholic Beliefs and Practices 3- Credits

An opportunity for students to become acquainted with, claim or reclaim Catholic identity through a discussion of basic Catholic beliefs and practices. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-105 Introduction to Theology 3- Credits

Study of the meaning and nature of theology, theological issues of God, human persons, Jesus the Christ, the Holy Spirit, the Church, and an introduction to Scriptures, liturgy, sacraments and Christian morality. This course partially satisfies the general education curriculum standards of faith, ethics, and foundations of thought. This course has a designated section for persons with greater background who want an introduction to the systematic exploration of these questions, especially (but not solely) majors and minors.

THL-105S Introduction to Theology (CEP) 3- Credits

Catholic Educator Program alternative to THL-105 for those desiring to teach in Catholic schools. Includes 104, 116, and 136. This course partially satisfies the general education curriculum standards of faith, ethics, and foundations of thought.

THL-106S Jesus and the Scriptures 3- Credits

Catholic Education Program alternative to second theology distribution course for those desiring to teach in Catholic schools. Includes 126, 128, 114. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement).

THL-128 Introduction to the New Testament 1- Credits

A study of the literature of the New Testament. The focus of the course is on the variety of ways in which the message of Jesus was interpreted by the early Christian communities. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-129 Biblical Greek 3- Credits

Study and practice in vocabulary recognition, grammar, syntax and reading of biblical Greek. New Testament selections are employed as appropriate, in order to move students toward the goal of beginning competence in reading the Greek New Testament. This course does not apply toward the general general education curriculum standards of faith, ethics, and foundations of thought.

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THL-130 Introduction to Biblical Greek II 3- Credits

Builds on the first semester of Greek and provides practice in reading and exegeting the Greek New Testament. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought nor the language requirement in the general education core. Take THL-129. (Required, Previous).

THL-145 Mentoring in Ministry 0.25- Credits

Weekly meetings with a theology faculty member to practice ministry skills being learned and to reflect theologically on these practices. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-146 Mentoring in Ministry 0.25- Credits

Weekly meetings with a theology faculty member to practice ministry skills being learned and to reflect theologically on these practices. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-170 Theology and Spirituality of Ministry 3- Credits

Exploration of the practice of ministry in scripture, Christian history, and present practices. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

Take THL-226 or THL-228. (Required, Previous).

THL-176 Internship in Ministry 0.5- Credits

Pastoral Leadership majors are expected to participate in a formal internship for no less than two hours each week throughout the first three years. Internship may be waived for persons concurrently working 10 or more hours in a formal ministry role. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-177 Internship in Ministry 0.5- Credits

Pastoral Leadership majors are expected to participate in a formal internship for no less than two hours each week throughout the first three years. Internship may be waived for persons concurrently working 10 or more hours in a formal ministry role. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-180 Special Topics in THL 1-3 Credits

This seminar addresses an announced special topic which the department deems is important to the development of the advancing student of theology, is appropriate to the needs of contemporary society, and requires of itself a full semester's work. The course is recommended for majors and non-majors (with staff approval) who have fulfilled the distribution requirement of six hours of theology. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

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THL-205 Studies in Jesus the Christ 3- Credits

Exploration of the various portraits of Jesus found in the Gospels and the writings of Paul. One objective is to begin to formulate one's own Christology in the light of such key concepts as Incarnation, Passion and Resurrection. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement).

THL-208 The Church 3- Credits

The nature and structure of the Church. A consideration of the images of the Church in the Scriptures provides the context for the study of later controversies, theologies and declarations by Popes and Church Councils. A thorough study of the documents of Vatican Council II with consideration to their ecumenical significance. Study of contemporary Roman Catholic theologies of the Church. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement).

Take THL-105 or THL-105S. (Required, Previous).

THL-216 Moral Issues 3- Credits

A study of moral theology in relationship to current moral issues with a particular emphasis on the dignity of the human person, conscience formation, and the struggle to live authentically in our culture. Moral issues concentrate on a consistent ethic of life encompassing the personal, social, economic, and ecological dimensions. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement).

THL-218 Fundamental Moral Theology 3- Credits

Study of foundational principles in Catholic moral theology with emphasis on identifying and analyzing the legitimate sources of moral reflection. In light of these sources, this course examines concepts fundamental to Catholic moral reflection such as natural law, Christian anthropology, virtue, and freedom.

Take THL-226 or THL-228. (Required, Previous).

THL-219 Sexual Minorities & Christianity 3- Credits

An introductory study of sexual minorities in Christian theology, morality, and pastoral practice; central Christian values such as covenant, sexuality, spirituality, human dignity, fidelity, and the principle of imago Dei will be addressed, with special emphasis on Catholic teachings. Particular emphasis on LGBTQ person's (orientation, identity, and expression) sexuality and gender in light of the human person and the struggle to live authentically as a sexual minority in the twenty-first century American culture. This course partially satisfies Marian-specific general education curriculum standards for faith, ethics, and foundations of thought.

Take THL-105. (Required, Previous).

THL-226 Old Testament 3- Credits

A study of the literature of the Old Testament with particular emphasis on the gradual development of the Biblical nation of Israel and its theology. Texts are discussed in light of their historical settings and as their messages apply today. This course partially satisfies Marian-specific general education curriculum

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standards of faith, ethics, and foundations of thought (2nd THL requirement). This course satisfies the writing intensive requirement in the student's major.

Take THL-105 or THL-105S. (Required, Previous).

THL-228 New Testament 3- Credits

A study of the literature of the New Testament. The course focuses on the variety of ways in which the message of Jesus was interpreted by the early Christian communities. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement). This course satisfies the writing intensive requirement in the student's major.

Take THL-105 or THL-105S. (Required, Previous).

THL-232 History of Christian Thought 3- Credits

A study of how the Christian community has attempted to articulate its belief through the thought patterns current at various moments of its history. Specifically stresses the patristic, scholastic, and reformation periods, with application to contemporary issues. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement).

Take THL-105 or THL-105S. (Required, Previous).

THL-236 Liturgy and Spirituality 3- Credits

A study of the nature and use of symbol in worship and sacraments. The course is directed toward understanding liturgy and sacraments as expressions of the heart of the Gospel message—healing, reconciliation, entering into the new life and mission of Jesus. A unit of this course deals with classical and contemporary spirituality. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement).

THL-245 Mentoring in Ministry 0.25- Credits

Weekly meetings with a theology faculty member to practice ministry skills being learned and to reflect theologically on these practices. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-246 Mentoring in Ministry 0.25- Credits

Weekly meetings with a theology faculty member to practice ministry skills being learned and to reflect theologically on these practices. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-270 Franciscan Theology Spirituality 3- Credits

An exploration of Franciscan theology and spirituality through the lives and writings of Saint Francis and Clare of Assisi and other Franciscans, with special attention give to the issue of vocation and discernment. Open only to San Damiano Scholars

Take THL-226 THL-228 THL-105S or THL-105. (Required, Previous).

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THL-272 Sexual Minorities & Christianity Pastoral Care & Spiritual Accompaniment 3- Credits

An introductory course on pastoral care, ministry, and spiritual accompaniment; exposes students to pastoral theology; examines contemporary methods and models of pastoral care and the practice of ministry; explores spirituality and spiritual direction.

Take THL-226 or THL-228. (Required, Previous).

THL-276 Internship in Ministry 0.5- Credits

Pastoral Leadership majors are expected to participate in a formal internship for no less than two hours each week throughout the first three years. Internship may be waived for persons concurrently working 10 or more hours in a formal ministry role. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-277 Internship in Ministry 0.5- Credits

Pastoral Leadership majors are expected to participate in a formal internship for no less than two hours each week throughout the first three years. Internship may be waived for persons concurrently working 10 or more hours in a formal ministry role. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-280 Special Topics in Theology 3- Credits

Readings, discussion and writing on selected theological topics in Catholic studies. May be repeated for credit since subject matter varies. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

THL-308 Christian Unity and Diversity 3- Credits

A study of the development, beliefs, and practices of the Roman Catholic, Eastern Orthodox, Anglican and Protestant churches. Includes lectures, discussions, visitation of various churches and guest speakers. Consideration of the role of ecumenism in church life. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement).

Take THL-105 or THL-105S. (Required, Previous).

THL-311 Biblical Interpretation Pastoral Care & Spiritual Accompaniment 3- Credits

A study of the methodology of biblical interpretation, with examination of the early church through the rise of modern biblical criticism. Specific topics include genre and form, problems in textual transmission and translation, historical and cultural backgrounds, literary features, and the social location of the interpreter. Students will demonstrate mastery in moving from interpretation to application through concentrated study of a specific passage.

Take THL-226 or THL-228. (Required, Previous).

THL-316 Theological Bioethics 3- Credits

This course will examine a series of prominent issues in bioethics from a theological perspective. The theological basis for an ethics of healthcare will be discussed as well as certain principles that flow from that foundation. This material will then be used to analyze a series of issues including treatment of the

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dying, experimentation on human embryos, and the just distribution of healthcare. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement).

Take THL-105 THL-H05 or THL-105S. (Required, Previous). | Take PHL-130 or PHL-H30. (Required, Previous).

THL-319 Sexual Ethics Pastoral Care & Spiritual Accompaniment 3- Credits

A study of sexual ethics with a particular emphasis on the dignity of the human person, conscience formation, and the struggle to live authentically. This course will examine the historic and biblical, personal and communal, bodily and psychological dimensions of human sexuality within the context of the Catholic and Christian tradition. This course partially satisfies Marian-specific general education curriculum standards for faith, ethics, and foundations of thought.

Take THL-105 or THL-105S. (Required, Previous).

THL-321 Religious Perspectives on Social Issues 3- Credits

This course explores historically and systematically religious perspectives and responses to timely social issues including roles of women and men, war and peace, and the economy. Topics to be explored and discussed include the possibility, necessity and character of religious statements on social issues, previous and contemporary Christian attitudes on selected topics and the apparent dilemma of conflicting perspectives. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement).

Take THL-105 or THL-105S. (Required, Previous).

THL-322 Catholic Social Teaching 3- Credits

This course is a study of the ongoing understandings and judgments of the Catholic community in its attempts to bring the Gospel to bear on social, political, and economic realities. The modern teachings (from Rerum Novarum to Centesimus Annus) and the concerns for the dignity of working persons, solidarity with the poor, and social justice are highlighted. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement).

Take THL-105 or THL-105S. (Required, Previous).

THL-324 Pentateuch Pastoral Care & Spiritual Accompaniment 3- Credits

A study of the first five books of the Hebrew Bible. Attention to comparative ancient Near Eastern traditions, questions of authorship, theological themes, and the use of these books among early Jewish and Christian communities.

Take THL-226. (Required, Previous). | Take THL-311. (Required, Previous).

THL-325 Poetic & Wisdom Literature Pastoral Care & Spiritual Accompaniment 3- Credits

A study of selected topics from the corpus of Hebrew poetry and wisdom, including Job, Psalms, Proverbs, Ecclesiastes, Song of Songs, Wisdom, and Sirach. This course will focus on the application of principles of exegesis.

Take THL-226. (Required, Previous). | Take THL-311. (Required, Previous).

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THL-329 The Gospels Pastoral Care & Spiritual Accompaniment 3- Credits

In-depth study of the literary features and theological ideas unique to each of the four canonical gospels. Some consideration of the implied author's situation, whether that of evangelist or community, and of implied audience for each gospel.

Take THL-228. (Required, Previous). | Take THL-311. (Required, Previous).

THL-330 Paul's Life & Letters Pastoral Care & Spiritual Accompaniment 3- Credits

A study of Paul's life, beginning with evidence from his letters. In-depth attention to rhetorical situations and theological ideas in Romans, 1-2 Corinthians, Galatians, Philippians, 1 Thessalonians, and Philemon. Some attention to the other letters of the Pauline corpus.

Take THL-228. (Required, Previous). | Take THL-311. (Required, Previous).

THL-332 Creative Theologians of the Modern Era 3- Credits

Review and discussion of a number of modern theologians who have made special contributions in dealing with the problems of our times and the advancement of the Christian faith. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement).

Take THL-105 or THL-105S. (Required, Previous).

THL-336 Liturgy, Prayer, & Sacraments Pastoral Care & Spiritual Accompaniment 3- Credits

This course examines the relationship of worship and Christian life through a consideration of liturgy, prayer, and sacrament. This course engages students in doing liturgical theology, and considers topics such as Scripture and liturgy, the paschal mystery, liturgical prayer in the context of the liturgical year and sacramental rituals, the ecclesial and ritual nature of liturgy and sacrament, and liturgy as a cultural reality.

Take THL-226 or THL-228. (Required, Previous).

THL-337 Christian Celebration of the Mass 3- Credits

This course places the theology, history, and practice of the Roman Catholic celebration of the Mass in conversation with contemporary pastoral contexts. Students will gain familiarity with the ritual form and theological content of the Mass through close readings of primary and secondary theological sources. This course partially satisfies Marian-specific general education curriculum standards of faith, ethics, and foundations of thought (2nd THL requirement).

Take THL-226 or THL-228. (Required, Previous).

THL-338 Marriage 3- Credits

This course will examine marriage in its biblical, historical, sacramental, and ethical dimensions. The course will analyze discernment of and preparation for marriage, the marriage rite, and the vocational role of marriage as a call to imperfect but graced community. Contemporary pastoral questions and challenges will also be addressed.

Take THL-226 or THL-228. (Required, Previous). | Take THL-218 THL-219 THL-316 THL-319 THL-321 THL-322 or THL-338. (Required, Previous).

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THL-345 Mentoring in Ministry 0.25- Credits

Weekly meetings with a theology faculty member to practice ministry skills being learned and to reflect theologically on these practices. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-346 Mentoring in Ministry 0.25- Credits

Weekly meetings with a theology faculty member to practice ministry skills being learned and to reflect theologically on these practices. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-355 Psychology of Religion 3- Credits

See PSY-355. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

Take PSY-101 or PSY-220. (Required, Previous). | Take THL-105 THL-H05 or THL-105S. (Required, Previous).

THL-357 Eastern Religions 3- Credits

A study of the major traditional Asian religions of India, China and Japan as seen in their historical settings. Emphasis is upon Hinduism, Buddhism, Confucianism, Taoism, Shinto and Islam, with comparisons to Christianity. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

Take THL-105. (Required, Previous).

THL-358 Religion and Globalization 3- Credits

See GLS-358. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

Take GLS-101. (Required, Previous). | Take THL-105 THL-H05 THL-105S. (Required, Previous).

THL-361 Foundations of Teaching Religion 3- Credits

This course explores catechesis and religious education, the structure and implementation of catechetical programs, and the role of the catechist and others who share in the catechetical mission of the Church. Includes the content of THL 142, Prayer & Praying with Children. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

Take THL-226 or THL-228. (Required, Previous). | Take THL-218 THL-219 THL-316 THL-319 THL-321 THL-322 or THL-338. (Required, Previous).

THL-371 Youth Ministry 3- Credits

An introductory study of comprehensive Catholic/Christian youth ministry; examines the Church's ministry to adolescents; explores essential ecclesial documents and non-ecclesial texts which pertain to and advocate for young people; addresses pertinent theological, liturgical, and pastoral issues in youth ministry; investigates various pedagogical methodologies and models for congregational/parish youth ministers to employ. This is a foundational course in youth ministry. It is designed to help the prospective youth minister to understand practical side of youth ministry as well as learn to think theologically about youth ministry as an indispensable, holistic, and comprehensive ministry within the

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church. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

Take THL-226 or THL-228. (Required, Previous). | Take THL-218 THL-219 THL-316 THL-319 THL-321 THL-322 or THL-338. (Required, Previous).

THL-376 Internship in Ministry 0.5- Credits

Pastoral Leadership majors are expected to participate in a formal internship for no less than two hours each week throughout the first three years. Internship may be waived for persons concurrently working 10 or more hours in a formal ministry role. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-377 Internship in Ministry 0.5- Credits

Pastoral Leadership majors are expected to participate in a formal internship for no less than two hours each week throughout the first three years. Internship may be waived for persons concurrently working 10 or more hours in a formal ministry role. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-380 Selected Topics in Contemporary Theology 1-3 Credits

This seminar addresses an announced special topic which the department deems is important to the development of the advancing student of theology, is appropriate to the needs of contemporary society, and requires of itself a full semester's work. The course is recommended for majors and non-majors (with staff approval) who have fulfilled the distribution requirement of six hours of theology. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

THL-381 Selected Topics in Catholic Studies 3- Credits

Readings, discussion and writing on selected theological topics in Catholic studies. May be repeated for credit since subject matter varies.

THL-405 Jesus Christ & the Tripersonal God Pastoral Care & Spiritual Accompaniment 3- Credits

Systematic theological exploration of Jesus, the Christ, and the Tripersonal God as revealed in Jesus. Take THL-226 or THL-228. (Required, Previous). | Take THL-218 THL-219 THL-316 THL-319 THL-321 THL-322 or THL-338. (Required, Previous).

THL-423 Theologies From the Margin Pastoral Care & Spiritual Accompaniment 3- Credits

Contextual theology entails an ongoing, ever deepening understanding of the revelation of God. Jesus is today seen as one who is sent to liberate the poor, the oppressed, and the silenced. It is the Church's responsibility to look for how Jesus is at work in the actual political, economic, and social sufferings in the world today. This course examines selected voices from the margin such as feminism(s), black theology, and LGBT+. A careful reading and analysis of the role and voice of the oppressed in Christian history, Scripture, and tradition will invite a fuller understanding of faith and humanity.

Take THL-226 or THL-228. (Required, Previous). | Take THL-218 THL-219 THL-316 THL-319 THL-321 THL-322 or THL-338. (Required, Previous).

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THL-428 Revelation Pastoral Care & Spiritual Accompaniment 3- Credits

An in-depth study of the Apocalypse of John in light of contemporary apocalyptic literature, e.g., 4th Ezra. Attention to the intertextuality of the book leading to exegesis in light of Johannine reconfiguration of Old Testament texts.

Take THL-226 or THL-228. (Required, Previous). | Take THL-218 THL-219 THL-316 THL-319 THL-321 THL-322 or THL-338. (Required, Previous).

THL-445 Mentoring in Ministry 0.25- Credits

Weekly meetings with a theology faculty member to practice ministry skills being learned and to reflect theologically on these practices. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-446 Mentoring in Ministry 0.25- Credits

Weekly meetings with a theology faculty member to practice ministry skills being learned and to reflect theologically on these practices. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-460 Internship in Religious Education 2-4 Credits

The first two-hour segment of this course is designed to prepare the student with practical experience and training in classroom teaching at various age levels. The second two-hour segment includes experience in organization and administration of religious school programs. The student is placed and supervised in one or more of the cooperating schools of the Indianapolis area. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought. Take 62 credits. (Required, Previous).

THL-472 Multicultural Ministry Pastoral Care & Spiritual Accompaniment 3- Credits

This course explores cultural contexts in which ministry occurs in North America. Attention will be given to the pastoral and spiritual needs and practices of diverse cultures (Hispanic, Asian, African, and others), opportunities for theological reflection, small group work, and pastoral interviews.

Take THL-226 or THL-228. (Required, Previous). | Take THL-218 THL-219 THL-316 THL-319 THL-321 THL-322 or THL-338. (Required, Previous).

THL-474 Pastoral Administration Procedures 3- Credits

Examines diocesan and parish life; involves outside ministry component; special attention given to pastoral leadership, management functions, and ministry applications; includes theological reflection, small group work, pastoral interviews, videotaping, role-play, and presentations of verbatim.

Take THL-226 or THL-228. (Required, Previous). | Take THL-218 THL-219 THL-316 THL-319 THL-321 THL-322 or THL-338. (Required, Previous).

THL-475 _____: History, Polity, Ministry and Practices 3- Credits

This is ordinarily a private tutorial course focusing on the student's own tradition or denomination's history, polity, ministry, and practices. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

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THL-476 Internship 1- Credits

Continued preparation for ministry through practical experience and training. This course does not apply toward the general education curriculum standards of faith, ethics, and foundations of thought.

THL-480 Selected Topics in Contemporary Theology 1-3 Credits

This seminar addresses an announced special topic which the department deems is important to the development of the advancing student of theology, is appropriate to the needs of contemporary society, and requires of itself a full semester's work. The course is recommended for majors and non-majors (with staff approval) who have fulfilled the distribution requirement of six hours of theology. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

THL-490 Senior Seminar 3- Credits

A comprehensive review of theological issues open to junior or senior theology, pastoral leadership, or religious education majors with department permission. This course fulfills the requirement for comprehensive exams in theology, pastoral leadership or religious education. Includes the common readings in the general education program for that year. Attendance at convocations required. Theology and religious education majors prepare and present a major seminar paper. In place of that paper, the student in pastoral leadership chooses a pastoral problem, issue, or area of concern; does appropriate academic and field research; and proposes a plan to address the situation/need in cooperation with sponsoring faculty member and parish representative. (FAL)

THL-499 Independent Study 1-3 Credits

Guided readings and research.

THL-H05 Honors Introduction to Theology 3- Credits

Content of THL-105 is enriched with reading and writing. Limited enrollment to students on the honor's program. This course partially satisfies the general education curriculum standards of faith, ethics, and foundations of thought.

TLL-610 Systems Thinking 2- Credits

In this course, candidates explore the differences between adaptive "systems" thinking and technical "machine" thinking as a springboard for gaining competencies critical in leadership diagnostic work, and building disciplines of thought and execution essential to the development of a high performing Adaptive Learning Organization.

TLL-616 Adaptive Leadership 2- Credits

This course explores the powerful nexus between adaptive leadership, understanding self and others, and outstanding organizational performance. As candidates engage in their continued ontological journey toward exercising effective leadership as natural expression of self, this course will help develop understandings and competencies core to the role and responsibility of a professional leader, including competencies critical to building and strengthening relationships, understanding and influencing stakeholders, and engaging people to make progress on difficult adaptive challenges.

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TLL-618 Transformational Leadership 2- Credits

Building on core concepts explored in Foundations of Adaptive Leadership and Systems Thinking, this course provides a platform, structure and individual coaching support for each candidate to fully engage in her/his own transformational journey.

TLL-623 Community and Family Engagemnt 3- Credits

This course will help leadership candidates understand schools as community institutions and think about young people's growth and education in a broader context. Leaders will deepen their knowledge of families and the broad range of systems that impact human development and impact school success. The course will explore the various factors that influence the achievement gap and efforts to narrow this gap in and outside of schools. The class will study historical and current models to integrate schools with the broad range of supports families need. Candidates will strengthen skills in communication, asset-based mapping and analysis. Along the way, candidates will grow more familiar with the communities they serve and be better prepared to work among the constellation of supports central to the success of our communities and students.

TLL-626 Stem and Digital Literacy Learning & Design 3- Credits

Students will study theories of learning and models of curriculum design for a 21st Century education. Using the What Works Clearinghouse and Promising Practices Network, as well as other evidence-based resources, candidates will examine curriculum models that have demonstrated success rates with students, particularly in the areas of STEM and digital literacy.

TLL-627 School Law and Management 3- Credits

During this course, students will learn foundational elements of school law, particularly as they pertain to special education, student/parent/personnel rights and obligations, contracts, collective bargaining, facilities, safety, and fundraising. In addition, candidates will focus on leadership and management issues related to governance, marketing, scheduling, compensation systems, and project management. During this course candidates will be required to participate in field experiences at each developmental level. (

TLL-630 Law and Management of Private Schools 3- Credits

While many aspects of management in private schools are not unlike those in the public sector, there are some that are distinctive. In this course, emphasis will be given to private school law, always considering what is "the law" vs. what is right/just by Christian values and how to weigh those aspects for the greater good. These foundational elements will be tied to the purpose of creating a school culture of high achievement for all. Students will also learn about best practices in scheduling, compensation systems, and budgeting/forecasting.

TLL-632 Statistical Analysis 2- Credits

This course will teach leadership candidates the procedures for conducting research in order to gather effective statistical data. Candidates will be immersed in the language of statistics and learn how to become good consumers of research with the capacity to evaluate the quality of research on school and teacher interventions.

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TLL-640 Research Methods 2- Credits

This course is designed to provide leadership students with an introductory knowledge and examples of research methodologies utilized in Educational Studies and the Behavioral Sciences. Basic research concepts, including quantitative and qualitative research, ethics, sampling, objectivity, reliability, validity, and standardization are discussed. Research methods such as questionnaires, descriptive, correlational, experimental, and quasi-experimental studies will also be covered, including an introduction to statistical tests and data analysis. This course focuses on preparing the students to undertake the research project that will serve as their thesis.

TLL-643 Program Development and Evaluation 3- Credits

During this course, leadership candidates will be given the fundamental tools, processes and habits of mind that result in successful program evaluation. Students will be introduced to models of evaluation and gain experience in working with stakeholders, developing and implementing evaluation instruments, analyzing data, and compiling an evaluation and strategic action report on actual programs in operation within the community and/or university.

TLL-647 Conflict Management 3- Credits

Conflict happens. It happens when you are the cause and it happens when are not the cause. It happens when you are aware and when you are not aware of it. It happens to you and around you. When beings interact, conflict is inevitable. And that's okay. Through this elective course, leadership candidates will investigate conflict in the many worlds in which they function and will get a chance to investigate their own attitudes towards it and responses to it. The course will provide an opportunity to discuss how to analyze conflict using SPITCEROW, recognize the stages of conflict in the conflict spiral, practice conflict resolutions skills, and apply various conflict resolution models to problems.

TLL-649 Resource Allocation 3- Credits

This course will prepare aspiring leaders to manage the resources available to schools and make thoughtful, principled, research-based decisions about those resources. Aspiring leaders will assess a school's allocation of resources (time, people and money), analyze the alignment between that allocation and the school's goals or mission, and study both the process and outcomes of leaders' decisions when faced with scarce resources. Leaders will study the sources of revenue accessible to both private and public schools and the expenditures common in schools. Through this work, leaders will also develop the financial vocabulary necessary to describe the condition of their organization and provide oversight of a school budget.

TLL-651 The Culture of High Performing Schools 3- Credits

This course will provide leadership candidates the guidance and instruction through which they will learn to identify the critical attributes of school culture and the factors that shape it. Aspiring leaders will study the strategies school leaders employ to build a common set of norms and behaviors among staff and students and examine the tensions leaders must grapple with along the way.

TLL-652 Teaching, Learning and Talent Development 3- Credits

Leadership candidates will practice evaluating teachers and model how to conduct critical conversations with teachers regarding their observed effectiveness. Leadership Candidates will learn how to set

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measurable goals and work with teachers to establish yearly improvement goals. Leadership candidates will learn how to identify, recruit, hire, develop, and retain talented teachers.

TLL-658 Call and Culture of Catholic Schools 3- Credits

The vocation to minister in a Catholic school is a call to create a culture of living and learning in the school community that is steeped in Gospel values. In this course, students will examine the Vatican and U.S. Bishops' documents that describe this vocation. In addition, they will study the research on highly effective school cultures, and in particular, the research on those aspects of culture that are attributed to making Catholic schools so effective. Candidates will use a Culture Audit Protocol to assess the culture of their local Catholic school and will create an action plan to prioritize the changes needed to move the school to becoming an effective results-driven entity. Candidates will learn how to prioritize their action plan in order to maximize student achievement gains.

TLL-660 Internship I 2- Credits

The clinical internships are designed to provide leadership candidates with real world experiences in the setting in which they intend to apply the knowledge, skills, and dispositions learned during their first year of coursework. Leadership candidates will accomplish this by shadowing administrators (i.e. principal or assistant principal) to become familiar with the daily duties and responsibilities of school leaders. Leadership candidates are supported for one or two semester semesters by an experienced, transformative leader.

TLL-661 Internship II 2- Credits

The clinical internships are designed to provide leadership candidates with real world experiences in the setting in which they intend to apply the knowledge, skills, and dispositions learned during their first year of coursework. Leadership candidates will accomplish this by shadowing administrators (i.e. principal or assistant principal) to become familiar with the daily duties and responsibilities of school leaders. Leadership candidates are supported for one or two semester semesters by an experienced, transformative leader.

TLL-662 Internship I: Leadership in Developing Faith/Spirituality 2- Credits

In this course, candidates will spend some class time examining the basic tenets of the Catholic Church as well as the rationale for those teachings. Special consideration will be given to beliefs that may impact faculty/staff hiring/retention, as well as those that may most likely surface as questions among students. Then, in a Catholic school environment, they will work with the principal or other school leader to explore the impact of these and other teachings on the school. The candidate will also work with the Catholic school leader to explore specific opportunities assisting in development of spirituality in the school community.

TLL-663 Internship II: Leadership in Developing Faith/Spirituality 2- Credits

The clinical internship is designed to provide leadership candidates with real world experiences in the setting in which they intend to apply the knowledge, skills, and dispositions learned during their first year of coursework. Leadership candidates will accomplish this by shadowing administrators (i.e. principal or assistant principal) in a Catholic school to become familiar with the daily duties and responsibilities of school leaders. Leadership candidates are supported for one or two semester

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semesters by an experienced, transformative leader, generally one who has had experience in Catholic schools.

TLL-675 Leadership for Student Learning 3- Credits

In this course Leadership Candidates will unpack transformational leadership as it relates to school leadership and its impact on student achievement. This includes “deep diving” into change management and leadership, state turnaround and under-performing schools, the decision-making process of a leader and building and sustaining safe and supportive learning environments for both staff and students.

TLL-680 Special Topics 1-3 Credits

This course covers particular issues in the field of educational leadership or religious educational leadership generally not contained in other courses. It may also be used to further develop content in other courses. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

TLL-681 Leadership Circle Profile 1- Credits

In order to grow our capacity to exercise leadership, it is imperative that we understand how we are showing up in our leadership role. Where am I in my leadership practice? What is the next developmental move that will significantly grow my leadership effectiveness? This course addresses this challenge head on, exploring questions including: How do I show up in the system? Which of my behaviors are productive? Counterproductive? What are my blind spots? Where am I generating dependency rather than capacity? Where and how will I focus my own developmental energy to be most generative for my growth? In this course, this development is explored by leveraging a 360 Degree Feedback process (The Leadership Circle Profile 360 Degree Feedback Tool), combined with Developmental and Somatic Executive Coaching. Graded S/U.
Take TLL-618. (Required, Previous).

TLL-685 Directed Elective 3- Credits

Students will have the opportunity to take an elective course to meet their personal career goals and needs. The elective courses will address a wide range of topics and may be structured as regular or self-directed courses that have been approved by the student’s faculty advisor. Elective offerings and schedules are adjusted each semester; students should consult with their advisor before choosing all courses.

TLL-690 Grant Writing/Fundraising 3- Credits

In this course, students will study basic techniques for successful grant writing and fundraising, including researching prospective funding sources, developing a prospectus, and writing a successful proposal. In addition, consideration will be given to the role of fundraising in budgeting practices.

TLL-692 Mentored Residency I 3- Credits

Mentored Residency I is an intensive clinical residency designed to support and strengthen leadership and performance skills of each leader candidate during their first year as a school leader (assistant principal/principal). Graded S/U.

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TLL-694 Mentored Residency II 3- Credits

Mentored Residency II is an intensive clinical residency designed to support and strengthen leadership and performance skills of each leader candidate during their first year as a school leader (assistant principal/principal). Graded S/U.

TLL-696 Thesis 1- Credits

Upon completion of all Masters in Educational Leadership course work, including Research Methods, students will complete their Master's Thesis or Capstone. The Master's Thesis is a final product for the Master's in Educational Leadership and is the culmination of the courses and experiences the student has encountered professionally and within the program. The Thesis is intended to help the students identify a problem to be addressed, develop appropriate research questions, critically evaluate and synthesize previous research surrounding this problem, create a valid research methodology for investigating the problem in their professional environment, analyze the findings of that investigation, and provide conclusions and recommendations based upon that analysis. This course must be completed at Marian University. Students must enroll in this course each semester until their thesis is completed. Graded S/U.

TLL-697 Capstone 1- Credits

Upon completion of all Masters in Educational Leadership course work, including Research Methods, students will complete their Master's Thesis or Capstone. The Master's Capstone is a final product for the Master's in Educational Leadership and is the culmination of the courses and experiences the student has encountered professionally and within the program. The Capstone is intended to help students identify a weakness in their school, district, or professional setting and address that area with an intervention, implement and collect data on the intervention, and draw reasonable conclusions. Students will be required to apply key concepts from core coursework and provide a research-based rationale for selecting the particular intervention. This course must be completed at Marian University. Students must enroll in this course each semester until their capstone project is completed. Graded S/U.

TLL-699 Independent Study 1-3 Credits

This course is designed to provide the student with an opportunity to gain or enhance their educational leadership knowledge and to explore an area of interest related to educational leadership.

TLL-722 Diversity and Equity in Education 3- Credits

Educators in the 21st Century must be ready to meet the needs of diverse learners and communities. This course will focus on how school systems can more effectively educate students of different racial, cultural, and economic backgrounds, those with special learning needs, and English language learners.

TLL-732 Financial Management of Educational Agen 3- Credits

This course will address the financial operation and oversight of education agencies and systems. Topics included will be funding sources, resource allocation, accounting principles, analysis, and reporting.

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TLL-742 The Superintendent 2- Credits

An exploration of the role, duties, and functions of school superintendents. An emphasis on the superintendent's role in building culture, effective communications, and working with boards, community, parents, and staff. The course will also build an understanding of auxiliary services.

TLL-752 Building Educational Capacity 3- Credits

A look at the role of school system leaders in promoting and supporting educational excellence. Topics include school culture and decision-making related to curriculum, instruction, assessment. Also addressed will be the role of supervision and evaluation in setting and achieving educational goals.

TLL-760 School System Internship I 2- Credits

Practical experience with the responsibilities of leaders of school corporations, networks, and systems. Interns will attend system events and meetings, interview a variety of system leaders, work on special projects, and reflect on these experiences.

TLL-762 The Law in Education 2- Credits

An advanced course for understanding the role of state and federal law in educational institutions. Students will research and apply concepts related to the rights and duties of government agencies, educational institutions, staff, parents, and community.

TLL-860 School System Internship II 2- Credits

Practical experience with the responsibilities of leaders of school corporations, networks, and systems. Interns will attend system events and meetings, interview a variety of system leaders, work on special projects, and reflect on these experiences.

VNP-100 Public Health and Safety 1- Credits

Student will learn about select zoonotic diseases, occupational hazards and safety issues related to the animal industry. Students will be introduced to numerous agencies and departments that control and mandate public health and safety associated with the animal industry. This course is only offered at the Ancilla College campus. Cross-listed as AGR-100.

VNP-101 Intro to Vet Nursing 2- Credits

Students will examine the role of the veterinary nurse/technician in the workplace. Students will learn about employment opportunities and areas of specialization, as well as related concepts in ethics, professionalism and laws and regulations governing veterinary nurses/technicians. Students will learn medical terminology. Students will learn animal handling and husbandry concepts, basic animal behavior, and human health hazards associated with veterinary medicine. This course is only available to students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

VNP-112 Anatomy and Physiology Lecture 4- Credits

This course emphasizes the difference between the systems of domestic animals. Students learn basic mammalian physiology, which covers general physiological processes, and the fundamentals of anatomy of, especially, the canine and feline. Aspects of physiology relating to the pathogenesis of certain diseases is also discussed. Students learn to use descriptive and topographical terms. This course is only

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available to students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus., with emphasis on locating and identifying the anatomical regions and landmarks. Introduction to descriptive and topographical terms will be discussed.

Take BIO-214 VNP-100. (Required, Previous). | Take VNP-113L. (Required, Concurrent).

VNP-113L Anatomy and Physiology Lab 2- Credits

Students learn the fundamental techniques involved in anatomic dissection, as well as necropsy procedures. Students dissect preserved and/or fresh animal specimens. This course is only available for students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take BIO-214 VNP-100. (Required, Previous). | Take VNP-112. (Required, Concurrent).

VNP-120 Small Animal Nursing 3- Credits

Students will learn about hospital maintenance and disinfection, general patient care, clinical nutrition, medicating animals, exam room techniques, zoonotic diseases, preventative health programs, oncology, reproduction and neonatal care. Human-Animal bond and euthanasia will be discussed, as well as any other topics related to the AVMA essential skills assigned as course content. This course is only available to students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take BIO-214 VNP-100. (Required, Previous).

VNP-130 Clinical Lab I 2- Credits

This course will consist of clinical skills, laboratory equipment and veterinary nursing procedures. Topics include the care and handling of small animals, animal restraint, physical examinations, specimen collection, medication administration and other clinical nursing skills. Any other topics related to the AVMA essential skills assigned as course content will be included. Students will practice and complete skills using models and live animals where appropriate. Essential Required Skills will be checked off during this course as required for graduation. This course is only available to students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take BIO-214 VNP-100. (Required, Previous).

VNP-200 Pharmacology Vet Nursing 3- Credits

Students will examine the fundamentals of pharmacology as it relates to the veterinary nurse/technician. This class looks at the effects of different drugs on the animal body and their uses for combating various ailments. Students will learn about drug recognition, labeling and packaging, calculating and measuring appropriate dosages for each animal, and administering, storing and inventorying pharmaceuticals. Students will also study normal and abnormal responses to therapeutic agents. This course is only available to students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take VNP-120 VNP-130. (Required, Previous).

VNP-210 Clinical Lab Procedures 2- Credits

Students will study laboratory techniques and procedures used in evaluating veterinary clinical samples. This will include hematology, urinalysis, parasitology, cytology, serology, microbiology, blood coagulation, blood biochemistry, and immunological tests, as well as any other topics related to essential AVMA skills assigned to this course. The veterinary nurse/technician's role in sample collection,

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sample storage and handling and performance of analytic procedures will be emphasized. Skills are developed in the use of laboratory equipment, laboratory safety and quality control. This course is only available for students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take VNP-120 VNP-130. (Required, Previous).

VNP-220 Small Animal Nursing II 3- Credits

Students will learn about fluid therapy, transfusion medicine, toxicology, emergency and critical care, and wound care and management. Students will learn about physical therapy, rehabilitation and alternative therapies used in veterinary medicine. Students will learn about basic dentistry and the skills required to complete a canine/feline dental. Students will complete RECOVER BLS and ALS CPR Courses during this class. Other topics related to the AVMA essential skills may also be included in this course. This course is only available to students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take VNP-120 VNP-130. (Required, Previous).

VNP-225 Large Animal Nursing 3- Credits

Students will learn about handling, care and restraint associated with large animals. Preventative medicine, common medical and surgical procedures, nutritional requirements, veterinary nursing skills, safety and humane issues will be covered, as well as many other topics related to essential AVMA skills assigned to this course. Part of this entire course will meet at an off-campus location. This course is only available to students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take VNP-120 VNP-130. (Required, Previous).

VNP-230 Clinical Lab II 2- Credits

This course will consist of clinical skills, laboratory equipment and veterinary nursing procedures. Topics include the care and handling of small animals, animal restraint, physical examinations, specimen collection, medication administration and other clinical nursing skills. Any other topics related to the AVMA essential skills assigned as course content will be included. Students will practice and complete skills using models and live animals where appropriate. Essential Required Skills will be checked off during this course as required for graduation. This course is only available to students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take VNP-120 VNP-130. (Required, Previous).

VNP-240 Integrations I 1- Credits

An introduction to problem-based learning of the nursing process (patient evaluation, interventions, and desired resolutions) using a case-based approach. This course will integrate foundational knowledge from anatomy, physiology, pharmacology, and veterinary nursing courses. Cases will involve different domestic animal species. Students will learn using a variety of teaching modalities (lecture, group work, problem-based learning). This course is only available to students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take VNP-120 VNP-130. (Required, Previous).

Take VNP-120 VNP-130. (Required, Previous).

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VNP-250 Surgery and Anesthesia 3- Credits

Students will study concepts of surgical nursing and anesthesiology. They will learn the administration and monitoring of anesthesia, analgesia, surgical assisting, record keeping and preparation/maintenance of the surgical room and instruments, as well as other topics related to essential AVMA skills assigned to this course. Student will become familiar with surgical instruments and common surgical procedures performed in small animal medicine. This course is only available to students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take VNP-220 VNP-225 VNP-230. (Required, Previous).

VNP-255 Lab and Exotics 3- Credits

This course focuses on laboratory and exotic animal husbandry, handling, restraint, and specific problems encountered with laboratory and exotic animals. The students will learn proper feeding and common management practices, including sanitation and disease prevention, in a clinical or zoological setting. The students will also review common diseases of laboratory and exotic animals. This course is designed to provide knowledge and skills required for veterinary nurses/technicians. Students will get an introductory view of animal handling and husbandry concepts, veterinary clinical management topics, nutrition and breeding of lab and exotic animals, as well as any other topics related to the AVMA essential skills assigned to this course. This course is only available for students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take VNP-220 VNP-225 VNP-230. (Required, Previous).

VNP-265 Diagnostic Imaging 3- Credits

Students will learn the principles and practice of veterinary medical radiology, handling animals for radiologic exams, radiographic exposure and developing techniques, radiation safety, as well as any other topics related to the AVMA essential skills assigned to this course. The use of ultrasound, Computed Tomography (CT), Magnetic Resonance Imaging (MRI), and dental radiography in veterinary medicine will be introduced. This course is only available for students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take VNP-220 VNP-225 VNP-230. (Required, Previous).

VNP-270 Clinical Lab III 2- Credits

This course will consist of clinical skills, laboratory equipment and veterinary nursing procedures. Topics include the care and handling of small animals, animal restraint, physical examinations, specimen collection, medication administration and other clinical nursing skills. Any other topics related to the AVMA essential skills assigned as course content will be included. Students will practice and complete skills using models and live animals where appropriate. Essential Required Skills will be checked off during this course as required for graduation. This course is only available to students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus.

Take VNP-220 VNP-225 VNP-230. (Required, Previous).

VNP-285 Integrations II 1- Credits

A continuation to problem-based learning of the nursing process using a case-based approach. This course will integrate foundational knowledge from anatomy, physiology, pharmacology, veterinary nursing courses, clinical pathology, microbiology, parasitology, anesthesia and diagnostic imaging. Cases

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will involve different domestic animal species and laboratory animals. Students will learn using a variety of teaching modalities (lecture, group work, problem-based learning). This course is only available to students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus. Take VNP-220 VNP-225 VNP-230. (Required, Previous).

VNP-298 Externship I 3- Credits

This course consists of a minimum of 120 hours of supervised clinical experience in a full-service veterinary clinic off campus approved by the Program Director. The student will complete an externship notebook including various assignments that will be reviewed with each student prior to their externship. The student must complete an exit interview with the Program Director near the end of each externship. The student must have completed all other courses in the program and completed all required AVMA essential skills prior to going on their externship. This course is only available for students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus. Take VNP-270 VNP-285. (Required, Previous).

VNP-299 Externship II 3- Credits

This course consists of a minimum of 120 hours of supervised clinical experience in a full-service veterinary clinic off campus approved by the Program Director. The student will complete an externship notebook including various assignments that will be reviewed with each student prior to their externship. The student may choose to complete the second externship at the same location as the first. If this is the case, additional assignments will be given to build on the required notebook. The student must complete an exit interview with the Program Director near the end of each externship. The student must have completed all other courses in the program and completed all required AVMA essential skills prior to going on their externship. This course is only available for students in the Veterinary Nursing Program. This course is only offered at the Ancilla College campus. Take VNP-270 VNP-285. (Required, Previous).