ATTENTION: The below descriptions should only be referenced for the 2022-23 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  1.00-3.00**
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  3.00-**
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. This course is only offered in the MAP program.

**ACC-211  Principles of Accounting II  3.00-**
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. This course is only offered in the MAP program.
Take ACC-210. (Required, Previous).

**ACC-250  Intro to Fin & Man Accting  3.00-**
An introduction to financial and managerial accounting principles, practices, and systems for service, merchandising, and manufacturing corporations. Study includes the use, measurement, and analysis of business transactions and financial statements from the financial accounting perspective. It also includes cost concepts, systems, behavior, and financial analysis of performance from the managerial accounting perspective.

**ACC-280  Special Topics in Accounting  1.00-3.00**
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-310  Advanced Managerial Accounting  3.00-**
A study of management's use of accounting information through the preparation, analysis, and interpretation of financial statements and reports. Study includes the fundamentals of managerial accounting - planning, budgeting, controlling, and performance measurement. Other topics include capital expenditure analysis, analysis of financial statements, and time value of money concepts. Computer applications and financial calculators are utilized.
Take ACC-250. (Required, Previous).

**ACC-311  Advanced Cost Accounting  3.00-**
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  3.00-
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  3.00-
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  1.00-3.00
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-430  Federal Taxation I  3.00-
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  3.00-
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  3.00-
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  6.00-
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  3.00-
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 3.00-9.00**
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-461 Internship in Accounting II 3.00-9.00**
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 3.00-9.00**
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 12.00-**
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 1.00-3.00**
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  1.00-3.00**
Guided study and/or research in accounting.

**AGR-100  Public Health and Safety  1.00-**
See VNP-100

**AGR-102  Intro to Animal Agriculture  3.00-**
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 3.00-**
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 basic soils, agricultural meteorology, and crop physiology and breeding. This course is only offered at the Ancilla College campus.

**AGR-203  Agriculture Economics  3.00-**
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  3.00-**
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-280  Special Topics in Agriculture  1.00-3.00**
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.

**AGR-299  Agriculture Capstone  3.00-**
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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  Survey of Western Art I: Prehistoric to Renaissance  3.00-
This course is a survey of the development of the Western visual arts (i.e. painting, sculpture, and architecture) as objects of historical and cultural expression from the Prehistoric through the Renaissance.

ARH-236  Survey of Western Art II: Baroque to Contemporary  3.00-
This course is a survey of the development of the Western visual arts (i.e. painting, sculpture, and architecture) as objects of historical and cultural expression from the Baroque through the Contemporary World.

ARH-330  The Classical World  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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).

ARH-380  Special Topics in Art History  1.00-3.00
See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

ARH-499  Independent Study  1.00-3.00
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  3.00-
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  3.00-
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  3.00-
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  2.00-3.00
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  3.00-
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  3.00-
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 examining the relationship between form, concept, and material. Six contact hours per week. Cross-listed as THE-201.

ART-203  Ceramics I  3.00-
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 3.00-
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 examining the relationship between form, concept, and material. Six contact hours per week. Cross-listed as THE-201.

ART-210  Drawing and Design II: the Art of Self To Society 3.00-
This course continues the advancement of drawing skins 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 3.00-
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 3.00-
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 3.00-
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.
Take ART-110. (Required, Previous). | Take ART-206. (Required, Previous).

ART-237  Printmaking I 3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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).

ART-336  Moving Murals: Painting for Social Change  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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).

ART-375  Documentary Photography  3.00-
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  2.00-3.00
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 1.00-2.00
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  3.00-
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  3.00-6.00
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 1.00-3.00
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. 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  2.00-3.00
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  1.00-
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  2.00-
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  1.00-3.00
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.

BIO-151  General Biology  4.00-
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  -
BIO-151 lab
Take BIO-151. (Required, Concurrent).

BIO-180  Special Topics in Biology  1.00-4.00
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  1.00-3.00
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  4.00-
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  -
BIO-202 lab
Take BIO-202. (Required, Concurrent).

**BIO-203**  Molecular Genetics  4.00-
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  -
BIO-203 lab
Take BIO-203. (Required, Concurrent).

**BIO-204**  Cell Biology  4.00-
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  -
BIO-204 lab
Take BIO-204. (Required, Concurrent).

**BIO-205**  Experimental Design and Statistical Analysis for Biologists  4.00-
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 -
BIO-205 lab
Take BIO-205. (Required, Concurrent).

**BIO-214** Microbiology 4.00-
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 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 -
BIO-214 lab
Take BIO-214. (Required, Concurrent).

**BIO-216** Medical Terminology 3.00-
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 5.00-
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 -
BIO-225 lab
Take BIO-225. (Required, Concurrent).

**BIO-226** General Human Physiology 5.00-
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**
- BIO-226 lab
  Take BIO-226. (Required, Concurrent).

**BIO-228  Marine Biology 4.00-**
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).

**BIO-228L  Marine Biology Lab**
- BIO-228 lab
  Take BIO-228. (Required, Concurrent).

**BIO-265L  Geographic Information Systems Lab**
- BIO-265 lab
  Take BIO-365. (Required, Concurrent).

**BIO-280  Special Topics Lab 1.00-4.00**
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 1.00-**
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 3.00-**
See PBH-301.

**BIO-305  Neurobiology 3.00-**
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).
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>BIO-310</td>
<td>Biochemistry 3.00-</td>
<td></td>
<td>See CHE-310.</td>
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<td>Take BIO-204. (Required, Previous)</td>
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<td>Take CHE-305. (Required, Previous).</td>
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<tr>
<td>BIO-311</td>
<td>Biochemistry I 4.00-</td>
<td></td>
<td>See CHE-311.</td>
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<td>Take BIO-204. (Required, Previous)</td>
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<td>Take CHE-306. (Required, Previous).</td>
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<tr>
<td>BIO-311L</td>
<td>Biochemistry I Lab -</td>
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<td>BIO-311 lab</td>
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<td>Take BIO-311. (Required, Concurrent).</td>
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<tr>
<td>BIO-312</td>
<td>Biochemistry II 4.00-</td>
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<td>See CHE-312</td>
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<td>Take CHE-311. (Required, Previous).</td>
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<tr>
<td>BIO-312L</td>
<td>Biochemistry II Lab -</td>
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<td>BIO-312 lab</td>
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<td>Take BIO-312. (Required, Concurrent).</td>
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<tr>
<td>BIO-320</td>
<td>Advanced Ecology 4.00-</td>
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<td>A study of the relationships between organisms and their environment at the organismal, population,</td>
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<td>community and ecosystem levels. Three lecture hours and three lab hours per week.</td>
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<td>Take BIO-202. (Required, Previous).</td>
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<tr>
<td>BIO-320L</td>
<td>Advanced Ecology and Evolution Lab</td>
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<td>BIO-320 lab</td>
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<tr>
<td>BIO-321</td>
<td>Conservation Biology Law 3.00-</td>
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<td>This course will examine the causes and consequences of species extinction, and will evaluate</td>
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<td>strategies to ameliorate species loss, restore habitat, and preserve natural areas and resources.</td>
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<td>The primary focus of the course will be on the biological mechanisms involved, although material from</td>
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<td>the fields of ethics, economics, and the social and political sciences will be touched on at times.</td>
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<td>Three lecture hours per week.</td>
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<td>Take BIO-202. (Required, Previous).</td>
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<tr>
<td>BIO-323</td>
<td>Ornithology 4.00-</td>
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<td>An examination of the evolutionary history, ecology, and behavior of birds. The lab consists mainly of</td>
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<td>field identification of species found in Indiana. Two lecture hours and four lab hours per week.</td>
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<td>Lab fee required.</td>
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<td>Take BIO-202. (Required, Previous).</td>
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<tr>
<td>BIO-323L</td>
<td>Ornithology Lab -</td>
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<td>BIO-323 lab</td>
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<td>Take BIO-323. (Required, Concurrent).</td>
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</tbody>
</table>
BIO-327 Behavioral Ecology 4.00-
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-
BIO-327 lab

BIO-329 Plant Biology 4.00-
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 -
BIO-329 lab.
Take BIO-329. (Required, Concurrent).

BIO-330 Histology 4.00-
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 -
BIO-330 lab

BIO-334 Human Medical Physiology 5.00-
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 -
BIO-334 lab
Take BIO-334. (Required, Concurrent).

BIO-340 Advanced Microbiology 4.00-
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**  2.00-
BIO-340 lab
Take BIO-340. (Required, Concurrent).

**BIO-345 Immunology  3.00-**
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  2.00-**
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  4.00-**
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**  2.00-
BIO-350 lab
Take BIO-350. (Required, Concurrent).

**BIO-351 Kinesiology  3.00-**
See ESS-351.
Take 1 group (Take ESS-120 ESS-265 /Take BIO-225). (Required, Previous).

**BIO-351L Kinesiology Lab**  1.00-
See ESS-351L.
Take BIO-351. (Required, Concurrent).

**BIO-352 Physiology of Exercise  2.00-**
See ESS-352.
Take ESS-120. (Required, Previous). | Take BIO-151 BIO-226 or BIO-334. (Required, Previous).

**BIO-352L Physiology of Exercise Lab  1.00-**
See ESS-352L.
Take BIO-352. (Required, Concurrent).

**BIO-355 Environmental Science Methods  4.00-**
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).

BIO-360  Junior Internship  1.00-3.00
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  1.00-3.00
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  1.00-3.00
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  4.00-
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-370  Evolution  3.00-
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  4.00-
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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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>BIO-373L</td>
<td>Zoology Lab</td>
<td>-</td>
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<tr>
<td>BIO-380</td>
<td>Special Topics in Biology</td>
<td>1.00-4.00</td>
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<tr>
<td>BIO-398</td>
<td>Directed Guided Research</td>
<td>1.00-4.00</td>
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<tr>
<td>BIO-410</td>
<td>Cell Physiology</td>
<td>4.00-</td>
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<tr>
<td>BIO-410L</td>
<td>Cell Physiology Lab</td>
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<tr>
<td>BIO-411</td>
<td>Biochemistry and Metabolism</td>
<td>4.00-</td>
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<tr>
<td>BIO-412L</td>
<td>Biochemistry and Metabolism Lab</td>
<td>2.00-</td>
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<tr>
<td>BIO-415</td>
<td>Genomics and Advanced Genetics</td>
<td>3.00-</td>
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</table>

BIO-373L: Take BIO-373. (Required, Concurrent).
BIO-380: 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: 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: 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-411: 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: See ESS-412L.
Take BIO-411. (Required, Concurrent).

BIO-415: 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).
BIO-434  Advanced Physiology of Exercise  3.00-
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 -
BIO-434 lab

BIO-440  Principles of Bioinformatics  4.00-
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 -
BIO-440 lab
Take BIO-440. (Required, Concurrent).

BIO-454  Bioassays  5.00-
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  1.00-6.00
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.

BIO-461  German Hospital Intern Undergraduate  1.00-
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  2.00-
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  4.00-
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 -
BIO-463 lab
Take BIO-463. (Required, Concurrent).

BIO-470  Nutritional Biochemistry  3.00-
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  4.00-
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  4.00-
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 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 -
BIO-474 lab
Take BIO-474. (Required, Previous).

BIO-480 Special Topics in Biology 1.00-4.00
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 1.00-
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 1.00-
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 1.00-4.00
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 1.00-4.00
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.

BME-226 Biomechanics 3.00-
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 3.00-
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 3.00-**
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).

**BME-366  Biotransport  3.00-**
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  3.00-**
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  3.00-**
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).

**BUS-100  Moral Capitalism  3.00-**
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  3.00-**
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  9.00-**
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  1.00-4.00**
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  2.00-**
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 KnightWork and social media that facilitate the job search process. The course concludes with a professionally administered mock interview.
Take BUS-109. (Required, Previous).

**BUS-201  Business Plan Implementation  1.00-6.00**
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).

**BUS-205  Business Statistics  3.00-**
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  9.00-**
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 reasoning 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  3.00-**
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  1.00-3.00**
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  1.00-4.00**
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-301  Business Law  3.00-**
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-309  Comprehensive Analysis of Business  9.00-**
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 BUS-209 or MKT-240. (Required, Previous). | Take BUS-209 or MGT-250. (Required, Previous).

**BUS-313  Fundraising Concepts and Best Practices  3.00-**
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  3.00-**
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.

**BUS-327  Art of the Ask: Identifying, Engaging And Soliciting Donors  3.00-**
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  3.00-
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 BUS-209 or MGT-250. (Required, Previous).

BUS-331  Corporate Social Responsibility  3.00-
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  3.00-
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  3.00-
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 BUS-209 or MKT-240. (Required, Previous).

BUS-359  Logistics of Meeting and Event Planning  3.00-
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  1.00-6.00
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 or BUS-209. (Required, Previous). | Take MGT-250 or BUS-209. (Required, Previous).

BUS-364  Negotiations and Relationship Management  3.00-
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  1.00-3.00
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).

BUS-369  Capstone: Technology, Promotion & Event Execution  3.00-
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  1.00-3.00
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  1.00-
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-401    Business Ethics 3.00-
Integrates the general education theme and readings. Attendance at convocations required. 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 94 credits. (Required, Previous).

BUS-480    Special Topics in Business    1.00-4.00
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    3.00-
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    1.00-3.00
Guided readings and research.

CEN-262    Thermodynamics II    3.00-
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 3.00-
The course will introduce the fundamental concepts of physical processed 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. Take EGR-230. (Required, Previous). | Take EGR-365. (Required, Previous).
CEN-366  Mass Transfer and Separations 3.00-
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 3.00-
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 3.00-
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 3.00-
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 4.00-
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 1.00-
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.
Take CHE-100. (Recommended, Previous or concurrent).

CHE-110  Fundamentals of General Organic, and Biological Chemistry I 4.00-
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  4.00-**
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  3.00-**
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  1.00-**
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  3.00-**
A continuation of CHE 141. Three lecture hours per week.
Take CHE-140. (Required, Previous).

**CHE-143L  General Chemistry II Lab  1.00-**
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  1.00-4.00**
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.

**CHE-215  Intro to Forensic Chemistry  4.00-**
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 -
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 4.00-
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 4.00-
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 -
CHE-270 lab
Take CHE-270. (Required, Concurrent).

CHE-275  Intro to Molecular Modeling & Simulation 2.00-
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 1.00-4.00
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).

CHE-298  Introductory Research 1.00-4.00
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 5.00-**
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 -**
CHE-300 lab
Take CHE-300. (Required, Concurrent).

**CHE-305 Organic Chemistry I 4.00-**
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 -**
CHE-305 lab
Take CHE-305. (Required, Concurrent).

**CHE-306 Organic Chemistry II 4.00-**
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 -**
CHE-306 lab
Take CHE-306. (Required, Concurrent).

**CHE-310 Biochemistry 3.00-**
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 -**
CHE-310 lab. Cross-listed as BIO 310L.
Take CHE-310. (Required, Concurrent).
CHE-311  Biochemistry I 4.00-
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  -
CHE-311 lab. Cross-listed as BIO 311L.
Take CHE-311. (Required, Concurrent).

CHE-312  Biochemistry II 4.00-
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  -
CHE-312 lab. Cross-listed as BIO 312L.
Take CHE-312. (Required, Concurrent).

CHE-315  Chemical Toxicology  3.00-
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  4.00-
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 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  -
CHE-325 lab.
Take CHE-325. (Required, Concurrent).

CHE-326  Physical Chemistry II  4.00-
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  -
CHE-326 lab.
CHE-360  Internship in Chemistry  2.00-6.00
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  1.00-4.00
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  3.00-
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  4.00-
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).

CHE-415L  Instrumental Forensic Chemistry Lab  -
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  4.00-
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  -
CHE-420 lab.
Take CHE-420. (Required, Concurrent).
CHE-425  Computational Physical Chemistry  3.00-
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  3.00-
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  4.00-
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  2.00-6.00
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-480  Special Topics in Chemistry  1.00-4.00
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  2.00-
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  1.00-4.00
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  2.00-4.00
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.

CLS-401 Clinical Hematology I  1.00-8.00
A study of the function, maturation, and morphology of the formed elements of the blood and the coagulation mechanism, as well as the principles and procedures of analysis. Includes supervised clinical experience in hematology, coagulation and phlebotomy techniques. Students perform various procedures both manual and automated to count, differentiate, and/or identify the various cellular and coagulation elements of the blood.

CLS-402 Clinical Hematology II  1.00-8.00
A continuation of CLS-401.

CLS-403 Clinical Chemistry I  1.00-8.00
Covers the basic principles of analytical chemistry in a broad area of investigation including biochemistry, normal and abnormal physiology, laboratory procedures, laboratory math, and instrumental analyses. Emphasis is placed on learning the theory and practice of clinical biochemistry. Students are taught to perform the various manual and automated procedures employed in analyzing blood and body fluids. Theory is presented through formal and informal lectures and practical applications are emphasized through supervised clinical experiences.

CLS-404 Clinical Chemistry II  1.00-8.00
A continuation of CLS-403.

CLS-405 Clinical Microbiology I  1.00-8.00
A study of the principles and procedures for the isolation and identification of clinically important bacteria, parasites (Parasitology), and fungi (Mycology). Antibiotic sensitivity testing is included as well as infection control procedures. Supervised clinical experiences provide practical application.

CLS-406 Clinical Microbiology II  1.00-8.00
A continuation of CLS-405.

CLS-407 Clinical Immunohematology I  1.00-8.00
Covers the principles and procedures of analyses in Blood Banking. Students learn the theory and practice of preparing blood for transfusion, including grouping, typing, and cross-matching blood. Detection and identification of antibodies or other causes of incompatible transfusions is also
emphasized.

CLS-408 Clinical Immunohematology I  1.00-8.00
A continuation of CLS-407.

CLS-409 Laboratory Topics I  1.00-8.00
This course will include a broad spectrum of clinically relevant topics, such as Basic Lab Techniques, Education, Management, Clinical Correlations, and Research.

CLS-410 Laboratory Topics II  1.00-8.00
A continuation of CLS-409.

CLS-411 Immunology and Serology  1.00-8.00
Covers the principles and procedures of analyses in Immunology and Serology. Emphasis is place on teaching the theory and methods used for detecting antigens, antibodies, and other serum substances related to infectious diseases. Normal and altered immune responses to diseases and other clinical conditions are included. Includes supervised clinical experience in the techniques required in these areas.

CLS-412 Clinical Microscopy/Urinalysis  1.00-8.00
Includes physiology of renal function and the significance of cellular and chemical constituents of urine (Urinalysis). Microscopic evaluation of other significant body fluids and clinical diagnosis are covered.

CLS-413 Serology and Virology  1.00-8.00
Covers the principles and procedures of analyses in Serology and Virology. Emphasis is placed on teaching the theory and methods used for detecting antigens, antibodies, and other serum substances related to infectious diseases. Normal and altered immune responses to diseases and other clinical conditions are included. Includes supervised clinical experience in the techniques required in these areas.

CLS-414 Education/Management/Research  1.00-8.00
A study of the principles and techniques of clinical instruction, in-service and continuing education, as well as administration and supervision. Includes a study of scientific investigation as applied in methods evaluation, problem solving, and research. Lectures, group projects, mini-teaching presentations, and panel discussions introduce the student to the basic concepts.

CLS-415 Clinical Practicum  6.00-
This course includes rotations throughout all areas of the clinical laboratory following all pertinent didactic courses. Students learn time management, multi-tasking and team participation as they work alongside clinical laboratory scientists in each section. Basic operation and function of all the
instrumentation as well as common trouble-shooting and problem resolution are emphasized. This course primarily focuses on practical skills, but correlation with clinical material is included as well.

**COL-099 College Reading and Learning Strategies 3.00-**
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 2.00-**
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 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 3.00-**
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 1.00-3.00**
Special Topics in college success and readiness.

**COL-360 Career Exploration Internship 1.00-3.00**
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  3.00-
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  3.00-
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  3.00-
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.

COM-165  Strategic Communication Princi  3.00-
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-190  New Media and Digital Culture 3.00-
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  1.00-
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.
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.

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

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.

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.

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).

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).

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

**COM-239 Professional Writing 3.00-**
See ENG-239.
Take ENG-112. (Required, Previous).

**COM-245 Fact Finding and Checking 3.00-**
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-250 Business & Professional Speaking 3.00-**
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 3.00-**
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 1.00-3.00**
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 3.00-**
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 3.00-**
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  3.00-
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  3.00-
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 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  3.00-
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  1.00-6.00
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  3.00-
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  Writing for New Media  3.00-
The course will focus on understanding communication objectives and meeting audience needs through the development of appropriate strategies/concepts. Writing for interactive media, video, and audio texts. Students will create various new media products to demonstrate their competencies. Cross-listed as ENG-367.
Take ENG-112 or ENG-115. (Required, Previous).
COM-380  Special Topics in Communication  3.00-
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  3.00-
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.

COM-410  Rhetoric and Culture Seminar  3.00-
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  3.00-
See MKT-445.

COM-460  Internship/Practicum in Communication  1.00-6.00
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  3.00-
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 3.00-
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  1.00-3.00
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  3.00-
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.

CPE-246  Advanced Programming  3.00-
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  3.00-
This course will provide basic concepts of computer operating systems. Topics include fundamentals of operating systems. Emphasis on processes, file management, interposes communication, input-output, virtual memory, networking and security. Take CPE-246. (Required, Previous).

CPE-341  Linear Circuit Analysis II  3.00-
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).

CPE-343  Digital System Design  3.00-
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  3.00-
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 3.00-
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 3.00-
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 3.00-
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 3.00-
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).

CRJ-270  Introduction to Criminal Justice 3.00-
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 3.00-
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 3.00-
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 3.00-
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 3.00-
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 3.00-
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 1.00-3.00
Selected topics in criminal justice. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

CRJ-460 Internship in Criminal Justice 2.00-4.00
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 4.00-
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 4.00-
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 1.00-3.00
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 4.00-
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 3.00-
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 4.00-
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.
Take CST-200. (Required, Previous). | Take MAT-230. (Required, Previous).

CST-280 Special Topics in Computer Science 1.00-3.00
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 3.00-
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 3.00-
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 3.00-**
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 3.00-**
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  3.00-**
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 1.00-6.00**
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-371  Software Engineering 3.00-**
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 1.00-3.00**
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 3.00-**
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  3.00-
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-Turning 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  3.00-
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  1.00-6.00
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  1.00-3.00
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-490  Senior Seminar Computer Science  2.00-
This course explores a board 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  1.00-
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  1.00-4.00
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 1.00-3.00**
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 1.00-6.00**
See partner school for course description.

**CUE-200  CUE Partnership Course Title 1.00-6.00**
See partner school for course description.

**CUE-300  CUE Partnership Course Title 1.00-6.00**
See partner school for course description.

**CUE-400  CUE Partnership Course Title 1.00-6.00**
See partner school for course description.

**CVE-301  Surveying With Lab 3.00-**
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).

**CVE-327  Civil Engineering Materials 3.00-**
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 3.00-**
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  3.00-  
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  3.00-  
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 3.00-  
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  3.00-  
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  3.00-  
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).

ECN-200  Introductory Economics  3.00-  
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  2.00-  
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  2.00-**
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-180  Special Topics in Education  3.00-**
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  3.00-**
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.

**EDU-190L  Critical Service Learning I Lab  -**
Take EDU-190. (Required, Concurrent).

**EDU-221  Expressive Arts  3.00-**
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  3.00-**
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.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>EDU-224L</td>
<td>Protocols for Classroom Observation Lab</td>
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<td>Protocols for Classroom Observations Lab</td>
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<td>Take EDU-224. (Required, Concurrent).</td>
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<tr>
<td>EDU-255</td>
<td>Introduction to Schools and Society Society</td>
<td>3.00-</td>
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<td>This foundation course includes politics and</td>
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<td>EDU-255L</td>
<td>Sdy Abd: Schools and Society</td>
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<td>Study abroad experience for students enrolled in</td>
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<td>EDU-255.</td>
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<td>EDU-290</td>
<td>Critical Service Learning II Responsible</td>
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<td>Stewardship</td>
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<td>Future Educators will discover their LEADERSHIP</td>
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<td>role in caring for our environment, beginning</td>
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<td>with healthy, sustainable living. This critical</td>
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<td>service learning will focus on environmental</td>
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<td>and health sciences. Students will have the</td>
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<td>opportunity to work with the Nina Mason Pulliam</td>
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<td>EcoLab and the Ruth Lilly Health Education</td>
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<td>Center to accomplish key goals and impact the</td>
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<td>health of local youth. Take EDU-190. (Required,</td>
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<tr>
<td>EDU-290L</td>
<td>Critical Service Learning II Lab</td>
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<td>Critical Service Learning II: Resp. Stewards Lab</td>
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<td>Take EDU-290. (Required, Concurrent).</td>
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<td>EDU-307</td>
<td>Science of Learning</td>
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<td>Examines the psychological dimensions of the</td>
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<td>learning occurs, evaluation of learning and</td>
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<td>related teaching methods. An emphasis will be</td>
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<td>placed on research-based practices including</td>
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<td>those from the Institute for Education Science.</td>
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<td>This course satisfies the writing intensive</td>
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<td>requirement for the major. Take EDU-224. (Required,</td>
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<td>EDU-307L</td>
<td>Science of Learning Lab</td>
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<td>Science of Learning Lab</td>
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<td>Take EDU-307. (Required, Concurrent).</td>
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<td>EDU-314</td>
<td>Teaching and Learning in Kindergarten 3.00-</td>
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<td>personal, social, and moral development;</td>
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<td>individual and group differences; higher-level</td>
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<td>thinking; and motivation. Key concepts in</td>
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<td>kindergarten curriculum are also addressed. The</td>
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<td>course includes a kindergarten practicum and a</td>
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<td>service learning experience.</td>
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<td>EDU-315</td>
<td>Differentiated Strategies for Teaching And</td>
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<td>Learning 3.00-</td>
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<td>curriculum and assessing and instructing</td>
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<td>children. Styles of learning, multiple</td>
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<td>intelligences, differentiated instruction, formal</td>
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<td>and informal assessment strategies, and use of</td>
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<td>state standards as part of the planning model</td>
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<td>are components of this course.</td>
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EDU-315L  Diff Strat for Tching & Lrning Lab -
Diff Strat for Tching & Lrning Lab Learning Lab
Take EDU-315. (Required, Concurrent).

EDU-318  Eng Lrns in Div & Incls Clsrms Inclusive Classrooms  3.00-
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 -
ENL and Diversity Lab
Take EDU-318. (Required, Concurrent).

EDU-322  Elementary Music Methods  3.00-
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.

EDU-327  Secondary Music Methods  2.00-
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  3.00-
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  3.00-
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 -  
Found of Literacy Instruct Lab  
Take EDU-346. (Required, Concurrent).

EDU-347  Intensive Interventions in Reading  3.00-  
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 -  
Intensive Interventions in Reading Lab  
Take EDU-347. (Required, Concurrent).

EDU-348  Language and Literacy Methods  3.00-  
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 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 -  
Language and Literacy Methods Lab  
Take EDU-348. (Required, Concurrent).

EDU-351  Reading and Writing in the Content Areas  3.00-  
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 -  
Reading and Writing in the Content Areas Lab  
Take EDU-351. (Required, Concurrent).

EDU-355  Education Around the World  3.00-  
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  
3.00-
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.

**EDU-358L**  Assess of Second Lang Lrns Lab-
Assess of Second Lang Lrns Lab
Take EDU-358. (Required, Concurrent).

**EDU-380**  Special Topics in Education  
3.00-
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-390**  Critical Service Learning III: Reconciliation  
3.00-
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 -
Critical Service Learning III Lab
Take EDU-390. (Required, Concurrent).

**EDU-400**  Mission/History of Catholic Schools  
1.00-
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  
3.00-
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** -
Best Practices for Teaching Lab
Take EDU-419. (Required, Concurrent).

**EDU-444**  **Integrated Teaching**  **3.00**-
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-103. (Required, Previous).

**EDU-444L**  **Integrated Teaching Lab** -
Integrated Teaching Lab
Take EDU-444. (Required, Concurrent).

**EDU-446**  **Creating Positive Classroom Environments**  **3.00**-
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.** -
EDU-446 lab.
Take EDU-446. (Required, Concurrent).

**EDU-447**  **Assessment for Learning**  **3.00**-
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** -
Assessment for Learning Lab
Take EDU-447. (Required, Concurrent).
EDU-469  Student Teaching: Exceptional Needs, Middle School  6.00-
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)  9.00-
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)  9.00-
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 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  3.00-
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-490  Senior Seminar, Critical Service Learning Capstone, Peace and Justice  3.00-
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 -
Senior Seminar Lab
Take EDU-490. (Required, Concurrent).

EDU-491  Clinical Internship Senior Seminar  3.00-
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  1.00-6.00**
Guided readings and research.

**EGR-101  Introduction to Engineering  3.00-**
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  3.00-**
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  3.00-**
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  1.00-**
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.

**EGR-221  Engineering Mechanics: Statics 3.00-**
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  3.00-**
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  3.00-**
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  3.00-**
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  3.00-**
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 -**
EGR-241 lab.
Take EGR-241. (Required, Concurrent).

**EGR-261  Thermodynamics  3.00-**
First and second laws, entropy, reversible and irreversible processes, properties of pure substances. Application to engineering problems.
Take PHY-201. (Required, Previous).

**EGR-301  Global Engineering  3.00-**
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 3.00-**
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  3.00-**
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  3.00-**
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  3.00-**
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 1.00-3.00**
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 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  3.00-**
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  3.00-**
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 1.00-3.00**
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 3.00-**
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 4.00-**
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).

**ENG-105  Techniques in Editing 1.00-**
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 1.00-**
Students contribute to student publications as writers, editors, and designers as contracted with the faculty advisor. May be repeated for up to 3 hours.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG-112</td>
<td>Writing and Community</td>
<td>3.00</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ENG-113</td>
<td>Creative Writing in Action</td>
<td>1.00</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ENG-123</td>
<td>Literary Perspectives</td>
<td>3.00</td>
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<td></td>
<td>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. &quot;Perspectives&quot; means we look at literature and writing from historical, cultural, social, economic, aesthetic, professional, and personal angles. Coming at literature and writing from various &quot;perspectives&quot; 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.</td>
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<tr>
<td>ENG-180</td>
<td>Special Topics in Lit and Writing</td>
<td>1.00-3.00</td>
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<td>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).</td>
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<tr>
<td>ENG-201</td>
<td>Responding to Student Writing</td>
<td>1.00</td>
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<td></td>
<td>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. Take ENG-112. (Required, Previous).</td>
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<tr>
<td>ENG-203</td>
<td>Writing Studies</td>
<td>3.00</td>
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<td>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).</td>
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</tbody>
</table>
ENG-204  Introduction to Creative Genres  3.00-
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  1.00-
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  1.00-
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  3.00-
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)  3.00-
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.

ENG-216  Survey of American Literature  3.00-
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-224 Survey of British Literature 3.00-
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 3.00-
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 3.00-
See THE-245.
Take ENG-112 or ENG-115. (Required, Previous).

ENG-252 Grant and Proposal Writing 3.00-
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.
Take ENG-112. (Required, Previous).

ENG-253 Research Methods & Criticism 3.00-
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 3.00-
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 3.00-
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 1.00-**
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  3.00-**
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  3.00-**
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.
Take ENG-112. (Required, Previous).

**ENG-317  American Modernism  3.00-**
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  3.00-**
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  3.00-**
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  3.00-
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  3.00-
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  3.00-
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 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  3.00-
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 3.00-
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  3.00-
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 3.00-
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 3.00-
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  3.00-
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).

ENG-360  Internship in English  1.00-6.00
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  3.00-
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  Writing for New Media 3.00-
See COM-367.
Take ENG-112 or ENG-115. (Required, Previous).

ENG-368  African American Film & Literature 3.00-
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 3.00-
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  3.00-
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  3.00-
This course with 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 GLS-375. Take ENG-112 or ENG-115. (Required, Previous).

ENG-380  Special Topics in Literature and Writing  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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 3.00-**
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 2.00-3.00**
Guided readings and research.

**ENG-L01  English Composition Lab**
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 1.00-**
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.

**ENV-170  Introduction to Environmental Science 3.00-**
see SCI-170.

**ENV-171L  Sci, Environmnt, & Soc- Ecolab Lab 1.00-**
see SCI-171L.
Take ENV-170. (Recommended, Concurrent).

**ENV-172  Intro to Environmental Science 4.00-**
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.

**ENV-173L  Sci, Environmnt, & Soc- Energy Lab 1.00-**
see SCI-173L.
Take ENV-170. (Recommended, Concurrent).
ENV-280  Special Topics in Environmental Science  1.00-3.00
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  1.00-3.00
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  1.00-3.00
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  3.00-
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  2.00-
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-230  First Aid  2.00-
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  3.00-
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).

ESS-245  Theory of Speed and Athletic Development  3.00-
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  3.00-
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 Wellness 2.00-**
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 3.00-**
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 3.00-**
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 Structural Anatomy 3.00-**
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).

**ESS-270 Nutritional Principles for Sport and Exercise 3.00-**
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 1.00-3.00**
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 3.00-
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 2.00-
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 3.00-
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 3.00-
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 3.00-
See PSY-340.
Take PSY-101 or PSY-220. (Required, Previous).

ESS-341 Exercise Psychology 3.00-
See PSY-341.
Take PSY-101 or PSY-220. (Required, Previous).

ESS-342 Clinical Aspects of Nutrition and Wellness 3.00-
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 -
Clinical Aspec. of Nutr & Well
Take ESS-342. (Required, Concurrent).
ESS-350 Coaching and Personal Training 3.00-
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 3.00-
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
Take ESS-351. (Required, Concurrent).

ESS-352 Physiology of Exercise 2.00-
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 1.00-
ESS-352 lab.
Take ESS-352 or ESS-550. (Required, Previous or concurrent).

ESS-353 Sport Physiology 4.00-
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
Take ESS-353. (Required, Concurrent).

ESS-355 Care and Prevention of Athletic Injuries 3.00-
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 1.00-3.00**
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 3.00-**
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 2.00-**
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).

**ESS-375L Scientific Principles of Strength and Conditioning Lab 1.00-**
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 1.00-3.00**
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 2.00-**
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 4.00-**
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 2.00-**
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 3.00-**
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**
ESS-434 lab. Cross-listed as BIO-434L.
Take BIO-434. (Required, Concurrent).

**ESS-445 Clinical Aspects of Exercise Physiology 3.00-**
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 3.00-**
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 3.00-**
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  1.00-3.00
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 3.00-
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  1.00-
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).

ESS-498 Research Project  1.00-3.00
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  1.00-4.00
Guided readings and research.

FIN-111 Personal Finance  3.00-
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  1.00-3.00
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 1.00-3.00
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-310 Managerial Finance 3.00-
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-211 or ACC-250. (Required, Previous).

FIN-311 Advanced Corporate Finance 3.00-
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 3.00-
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 BUS-109 ECN-201 or ECN-202. (Required, Previous).

FIN-352 Public Finance 3.00-
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 BUS-205. (Required, Previous). | Take MKT-240. (Required, Previous). | Take MGT-250. (Required, Previous).

FIN-356 Real Estate 3.00-
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 FIN-310 or BUS-109. (Required, Previous or concurrent).
FIN-357 Risk and Insurance 3.00-
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 FIN-310 or BUS-109. (Required, Previous).

FIN-358 Student Managed Venture Fund 3.00-
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 3.00-
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 BUS-209 or BUS-205. (Required, Previous).

FIN-380 Special Topics in Finance 1.00-3.00
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 3.00-
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 3.00-
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 3.00-**
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 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 3.00-**
Serves as the senior capstone course for accounting and finance majors. 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 ACC-455.
Take 62 credits. (Required, Previous).

**FIN-460 Internship in Finance I 3.00-**
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 3.00-**
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 3.00-**
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** 1.00-3.00
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** 1.00-3.00
Guided study and/or research in finance.

**FRE-101 Introduction to French I** 3.00-
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** 3.00-
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** 1.00-3.00
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** 3.00-
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 3.00-
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 3.00-
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.
Take FRE-201 or FRE-ADV. (Required, Previous). | Take FRE-200 or FRE-ADV. (Required, Previous).

FRE-230  Oral Communication in French 3.00-
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 1.00-3.00
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 3.00-
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 3.00-
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 3.00-
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 3.00-
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 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 3.00-
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 3.00-
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 3.00-
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 3.00-
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  1.00-3.00
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-480  Special Topics  1.00-3.00
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  2.00-3.00
Guided readings and research.

FYS-110  First Year Seminar  3.00-
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  3.00-
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  3.00-
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  3.00-
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 1.00-3.00
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-200  Intermediate German I 3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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-310  Written Communication in German  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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).

**GER-353   German Cinema: a Century in Motion   3.00-**
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   3.00-**
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   3.00-**
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   3.00-**
Guided readings and research.

**GLS-100   Moral Capitalism   3.00-**
See BUS 100.

**GLS-101   Global Perspectives   3.00-**
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.

**GLS-102  Global Encounters  3.00-**
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  1.00-3.00**
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  3.00-**
See COM 190.

**GLS-200  Global Ethics  3.00-**
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  3.00-**
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.

**GLS-202  Evolution and Ecology  4.00-**
See BIO 202.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GLS-205</td>
<td>Survey of Latin American History</td>
<td>3.00</td>
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<td>See HIS-205</td>
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<td>GLS-206</td>
<td>Visual Design Concepts</td>
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<td>See ART 206</td>
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<td>GLS-210</td>
<td>Survey of Global History</td>
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<td>See HIS 200</td>
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<tr>
<td>GLS-213</td>
<td>Survey of African History</td>
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<td>See HIS 213</td>
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<td>GLS-219</td>
<td>Sexual Minorities &amp; Christianity</td>
<td>3.00</td>
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<td>See THL 219</td>
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<td>Take THL-105. (Required, Previous)</td>
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<td>GLS-220</td>
<td>American Constitutional History</td>
<td>3.00</td>
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<td>See HIS 220</td>
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<td>GLS-237</td>
<td>Global Social Work</td>
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<td>Take SWK-110. (Required, Previous).</td>
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<td>GLS-270</td>
<td>Environmental Chemistry</td>
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<td>See CHE 270</td>
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<td>Take CHE-110 CHE-152 or CHE-142.</td>
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<td>GLS-280</td>
<td>Special Topics in Global Studies</td>
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<td>Descriptions prior to summer 2022</td>
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<td>can be viewed at marian.edu/registrar.</td>
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</tbody>
</table>
GLS-290  Model United Nations 2.00-
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 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 3.00-
See EGR 301.

GLS-305  Global Persp in Environmental Science 3.00-
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-308  Conflict/Reconciliation in Latin America 3.00-
See HIS 308.

GLS-313  Stereotyping & Prejudice 3.00-
See PSY 313.
Take PSY-101 or PSY-220. (Required, Previous).

GLS-315  Theological Bioethics 3.00-
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 3.00-
See HIS 316.

GLS-317  Germany's Collective Memory in Lit, Film and Memorials 3.00-
See GER 317.
Take GER-200 GER-201 or GER-ADV. (Required, Previous).

GLS-320  Immigration and Borderland Studies 3.00-
See HIS 320.
GLS-321  Religious Perspectives on Social Issues 3.00-
See THL 321.
Take THL-105. (Required, Previous).

GLS-322  Natural Disasters in the Americas 3.00-
See HIS 322.

GLS-323  Literature and Medicine 3.00-
See ENG 323.
Take ENG-112. (Required, Previous).

GLS-325  Latino Catholic Culture 3.00-
See SPA 325.
Take SPA-201 or SPA-ADV. (Required, Previous).

GLS-326  Writing in the Sciences 3.00-
See ENG 326.
Take ENG-112. (Required, Previous).

GLS-327  The Byzantine East 3.00-
See ARH 337.
Take HUM-210. (Required, Previous).

GLS-329  The Modern British Service Economy 3.00-
See MGT 329.

GLS-330  Global Logistics and SCM 3.00-
See LSM 330.
Take LSM-240. (Required, Previous).

GLS-333  Conflict Transformation 3.00-
See COM-333.

GLS-335  Genocide in Historical Perspectives 3.00-
See HIS-335.

GLS-336  Latino Voices in the US 3.00-
See SPA 335.
Take SPA-220 or SPA-310. (Required, Previous).

GLS-337  History of the World Wars 1870-1936 3.00-
See HIS 337.

GLS-338  Global Marketing 3.00-
See MKT 338.
GLS-341  Music of World Cultures  3.00-
See MUS 340.

GLS-344  The Modern World  3.00-
See ARH 344.
Take ARH-236. (Required, Previous).

GLS-347  Intercultural Art  3.00-
See ARH 347.
Take HUM-210. (Required, Previous).

GLS-350  Humanitarian Logistics 3.00-
See LSM 350.
Take LSM-240. (Required, Previous).

GLS-357  Eastern Religions  3.00-
See THL 357.
Take THL-105. (Required, Previous).

GLS-358  Religion and Globalization  3.00-
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  3.00-
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  3.00-
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  4.00-
See BIO 365.

GLS-366  Death & Dying in Global Persp  3.00-
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).

**GLS-367**  Cross-Cultural Psychology  **3.00-**
See PSY-367.

**GLS-368**  American Indian Film & Literature  **3.00-**
See ENG 366.
Take ENG-112. (Required, Previous).

**GLS-370**  E-Logistics  **3.00-**
See LSM 370.
Take LSM-240. (Required, Previous).

**GLS-375**  Global Cinema  **3.00-**
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  **3.00-**
See SOC-377.
Take GLS-101 or SOC-101. (Required, Previous).

**GLS-380**  Global Studies Seminar  **3.00-**
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  **3.00-**
See COM 382.

**GLS-404**  Images, Identity & Cultures in Mexico  **3.00-**
See HIS 404.

**GLS-406**  Global Women's Movement  **3.00-**
See HIS 406.

**GLS-409**  Global Histories of Witches & Witchcraft  **3.00-**
See HIS 409.
GLS-411  International Finance  3.00-
See FIN 411.
Take BUS-309. (Required, Previous).

GLS-420  Financial Institutions  3.00-
See FIN 420.
Take FIN-310. (Required, Previous).

GLS-423  Theologies From the Margin Pastoral Care & Spiritual Accompaniment 3.00-
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  3.00-
See HIS 439.

GLS-445  Plagues, Pox & Pandemics  3.00-
See HIS-445.

GLS-446  Global Women's Health Issues 2.00-
See NSG 445.

GLS-450  International Business 3.00-
See MGT 450.
Take 1 courses; From rule DA.STATS. (Required, Previous). | Take BUS-209 or MGT-250. (Required, Previous).

GLS-460  Global Engagements  3.00-
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 3.00-
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  1.00-3.00
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 3.00-
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 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 3.00-
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 3.00-
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 History of the Modern World 3.00-
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 1.00-3.00
Readings, discussion, and writing on selected topics. See course section comments for description.
HIS-200 Survey of Global History 3.00-
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 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-205 Survey of Latin American History 3.00-
In this class you will learn about the principal economic, social, and political transformations in Latin America from before the first encounter between European nations and native societies to the present, in order to understand Latin America and its culture. Using primary source documents and historical research, we will focus on major political and cultural trends in Latin America. Equated to GLS-205.

HIS-210 Indiana History 3.00-
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 3.00-
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 3.00-
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 3.00-
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 3.00-
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.

HIS-280 Special Topics in History 1.00-3.00
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-305 Gilded Age Progressive Era 3.00-
From 1873 to 1920 American history was fraught with radical and often violent change. In this class students will learn about the end of Reconstruction, the emergence of Jim Crow era laws, the rise of global American imperialism, the shift to corporate capitalism, the height of the Suffragist movement, the incorporation of the American West in the United States, and the various social and political movements that altered the course of U.S. and then world history.

HIS-307 Women's and Gender History 3.00-
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-308 Conflict/Reconciliation in Latin America 3.00-
This course surveys the historical trajectory of Latin America during the Cold War and takes, as a point of focus, U.S. influence in Latin America. Students examine the role of Latin America globally, and the effects the Cold War had on society and social movements in Latin American countries, particularly in terms of creating a lasting effect on how people in the region understand human rights. We will analyze myriad issues including: diplomacy, democracy, authoritarianism, gender, global trade, human rights, women's movements, youth activism, worker movements, para- militarism, technological diffusion, environmentalism, and more.
HIS-310 History of the US Presidency  3.00-
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 no 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  3.00-
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  3.00-
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-322 Natural Disasters in the Americas  3.00-
Fire, drought, hurricanes, floods, earthquakes, and pollution shape the natural and human world. In this reading-based class we will study different disasters throughout South and North America. Some questions we will examine are: How have natural disasters shaped human history? How have the explanations for and responses to disasters changed over time? What does this tell us about human culture and society? How "natural" are natural disasters? Who has suffered most from environmental crises?

HIS-335 Genocide in Historical Perspectives  3.00-
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  3.00-
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.
HIS-343 African-American History 3.00-
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 3.00-
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 3.00-
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 3.00-
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-354 Labor & Working Class History 3.00-
Often mentioned, but rarely made the center of popular studies, the working class is an element of society that has existed in the United States since before the founding of the country. This class looks at not only the history of labor unions and the labor movement, but does a more in-depth study of who exactly the working class is, how they have impacted history, and how notions like "class" shift from period to period and are informed by foreign policy, race, sex, and income.

HIS-366 American Indian Film & Literature 3.00-
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.
HIS-380 Special Topics in History  3.00-
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-404 Images, Identity & Cultures in Mexico  3.00-
This course examines the history of Mexico through discussions of films, readings, and analysis of primary sources. We will focus on the cultural and environmental history of Mexico in the 20th and 21st centuries. The goal of this course is to examine the history of Mexico while offering new methodologies for the evaluation of visual culture as well as written historical texts. We will examine the political, social, cultural, and nationalistic narratives of Mexico's past. Topics covered include colonial legacies, race and ethnicity, the Mexican Revolution, nation-building and development, Mexico- US relations, popular culture, economic crisis, and the social movements.

HIS-406 Global Women's Movement  3.00-
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 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  3.00-
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  3.00-
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   3.00-
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   1.00-4.00
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   3.00-
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).

HIS-480 Special Topics in History   1.00-3.00
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-490 Senior History Seminar 3.00-
Senior history majors discuss and analyze required general education book and works of major western historians in this capstone course. Attendance at convocations required.

HIS-499 Independent Study   3.00-
Guided readings and research.

HON-340 Great Books Discussion   1.00-3.00
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 1.00-3.00
Honors 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 1.00-
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 1.00-
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 1.00-
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 1.00-
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 1.00-
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 1.00-
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 1.00-
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 associate degree.

HPE-108 Bowling 1.00-
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 1.00-
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 1.00-
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  1.00-
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  1.00-
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  1.00-
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  1.00-
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  1.00-
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 1.00-
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  2.00-
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.

HPE-139  Introduction to Sport Management  3.00-
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  2.00-
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  3.00-
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  1.00-
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  1.00-
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  1.00-
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  1.00-
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  1.00-
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.
Take HPE-128. (Required, Previous).

HPE-160  Team Sports  3.00-
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
HPE-228  Movement and Rhythmic Activities  2.00-
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  3.00-
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  3.00-
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  3.00-
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  Structural Anatomy  3.00-
See ESS-265.

HPE-269  Physical Activities for the Elementary Grades  3.00-
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  2.00-
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  2.00-
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  2.00-
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  2.00-
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  2.00-
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  2.00-
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  3.00-
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  3.00-12.00
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.

HPE-363  Adaptive Physical Education  3.00-
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  3.00-
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  1.00-3.00
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
Guided readings and research. May enroll for one to four credits.

HUM-210  The Search for Meaning Through Culture  3.00-
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  3.00-**
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  4.00-**
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 -**
The discussion group for HUM-230.
Take HUM-230. (Required, Concurrent).

**HUM-231  Literature, Music & Art in Western Tradition II  4.00-**
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 -**
Discussion group for HUM-231.
Take HUM-231. (Required, Concurrent).

**HUM-380  Special Topics in Humanities  1.00-3.00**
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  3.00-**
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 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
ISP-380 Special Topics in International Studies 3.00-
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.

LAT-101 Latin I 3.00-
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 3.00-
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 3.00-
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 3.00-
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 1.00-3.00
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 3.00-
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 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 3.00-**
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 3.00-**
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 3.00-**
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 3.00-**
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).
LAW-262  Legal Liability: Torts for the Paralegal  3.00-
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  3.00-
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  3.00-
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.

LAW-290  Legal Career Preparation and Development  1.00-
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  1.00-
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.
Take LAW-285. (Required, Previous).
LAW-299 Independent Study in Law 3.00-
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 3.00-
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 3.00-
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 3.00-
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.

LSM-240 Intro Logistics and SCM 3.00-
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 3.00-
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  3.00-
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  3.00-
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  3.00-
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.
Take LSM-240. (Required, Previous).

LSM-380  Special Topics in LSCM  3.00-
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  3.00-
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  3.00-
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  3.00-
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  4.00-
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  -
MAT-115 lab.
Take MAT-115. (Required, Concurrent).

MAT-116  Mathematics for Elementary School II Teachers II  5.00-
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  -
MAT-116 lab.

MAT-130  Statistics in the Contemporary World  3.00-
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  3.00-
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 3.00-
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 1.00-3.00
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-211 Mathematical Tools 2.00-
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 3.00-
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 or MAT-145. (Required, Previous).

MAT-230 Calculus and Analytic Geometry I 4.00-
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 4.00-
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 3.00-
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 1.00-3.00
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  1.00-3.00
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  4.00-
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).

MAT-310  Linear Algebra  3.00-
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  3.00-
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  3.00-
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  3.00-
A continuation of MAT-322.
Take MAT-322. (Required, Previous).

MAT-330  Advanced Geometry  3.00-
Study of Euclidean geometry, both classical and modern, finite geometries, geometric transformations and convexity. Axiomatic structure is emphasized.

MAT-331  Modern Geometries  3.00-
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  3.00-
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  3.00-
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).

MAT-370  Financial Mathematics 3.00-
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 1.00-3.00
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  3.00-
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  3.00-
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 3.00-
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  3.00-
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  3.00-**
An axiomatic study of important algebraic systems, including groups, rings, fields, and vector spaces.
Take MAT-250. (Required, Previous). | Take MAT-310. (Required, Previous).

**MAT-441  Abstract Algebra II  3.00-**
A continuation of MAT-440.
Take MAT-440. (Required, Previous).

**MAT-450  Real Analysis  3.00-**
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  1.00-3.00**
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  1.00-3.00**
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  3.00-**
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  2.00-3.00**
Options include topics in real analysis or guided readings and research. May enroll two to three credits.
Take 62 credits. (Required, Previous).

**MCAT-003  MCAT Ultimate Voucher-Based**
This MCAT Prep course is offered through a partnership with the Princeton Review. Each student will receive MCAT Ultimate course books, up to 15 practice tests, 270 days of online student portal access, and up to 123 hours of instruction. Each voucher can be used towards the registration of an MCAT
Ultimate (Live Online or In Person retail course only).

**MCAT-004  MCAT Self-Paced**
This MCAT Prep course is offered through a partnership with the Princeton Review. Each student will receive MCAT Self-Paced course books, access to pre-recorded lectures, up to 15 practice tests, and 270 days of online student portal access.

**MEN-320  Dynamic Systems  3.00-**
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  3.00-**
Vector and tensor algebra and complex-variable methods; ordinary differential equations, qualitative questions of existence and uniqueness; analytic solution methods, numerical methods, power-series 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  3.00-**
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  3.00-**
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  3.00-**
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  3.00-
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  3.00-
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).

MGT-250  Principles of Management  3.00-
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  3.00-
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  3.00-
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   3.00-
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   1.00-3.00
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   3.00-
The Modern British Service Economy class is an innovative course dealing with the British business community and strategic business concepts. The multidisciplinary course will compare and contrast the service 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.

MGT-330    Project Management   3.00-
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   3.00-
See FRE-330.
Take FRE-201 or FRE-ADV. (Required, Previous).

MGT-333    German Business Culture   3.00-
See GER-330.
Take GER-201 or GER-ADV. (Required, Previous).

MGT-334    Business Communication in Global Contexts I   3.00-
See SPA-330.
Take SPA-201 or SPA-ADV. (Required, Previous).

MGT-350    Operations Management   3.00-
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 or BUS-209. (Required, Previous). | Take 1 courses; From rule DA.STATS. (Required, Previous).

MGT-351    Human Resources Management   3.00-
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 1 courses; From rule DA.STATS. (Required, Previous). | Take BUS-209 or MGT-250. (Required, Previous).

MGT-352  Organizational Behavior  3.00-
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 BUS-209 or MGT-250. (Required, Previous).

MGT-358  Employment Law  3.00-
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 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 BUS-209 or MGT-250. (Required, Previous). | Take BUS-301. (Required, Previous).

MGT-361  Talent Management  3.00-
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.

Take 1 courses; From rule DA.STATS. (Required, Previous). | Take BUS-209 or MGT-250. (Required, Previous).

MGT-362  Compensation and Benefits  3.00-
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 BUS-209 or MGT-250. (Required, Previous).

MGT-363  Global Human Resources  3.00-
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 BUS-209 or MGT-250. (Required, Previous).

**MGT-372  Creativity and Change  3.00-**
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 BUS-209 or MGT-250. (Required, Previous). | Take MGT-301. (Required, Previous).

**MGT-379  Business Management: Cases & Application  3.00-**
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.
Take MGT-350 or MGT-351. (Required, Previous).

**MGT-395  Applied Managerial Decision Making  3.00-**
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 BUS-209 or MGT-250. (Required, Previous).

**MGT-430  Strategic Leadership  3.00-**
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.

**MGT-450  International Business  3.00-**
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 BUS-209 or MGT-250. (Required, Previous).
MIL-101  Foundations of Officership  1.00-
Reserve Officer Training Corps (ROTC) course offered in cooperation with IUPUI.

MIL-102  Foundations in Leadership  1.00-
ROTC at IUPUI.

MIL-201  Individual Leadership Studies  2.00-
Reserve Officer Training Corps (ROTC) course offered in cooperation with IUPUI.

MIL-202  Leadership in Changing Environment  2.00-
ROTC at IUPUI.

MIL-301  Leadership and Problem Solving  3.00-
Reserve Officer Training Corps (ROTC) course offered in cooperation with IUPUI.

MIL-302  Leadership Under Fire  3.00-
ROTC at IUPUI.

MIL-321  Military History & Leadership  3.00-
ROTC at IUPUI.

MIL-401  Officership I  3.00-
Reserve Officer Training Corps (ROTC) course offered in cooperation with IUPUI.

MIL-402  Leadership in a Complex World  3.00-
ROTC at IUPUI

MIS-101  Information System Applications  3.00-
A study of various applications of microcomputers to business operations and managerial decision making. Students are introduced to microcomputer hardware and software concepts as well as to major software applications used in managerial problem solving and decision making. This course is only offered in the MAP program.

MIS-201  Management Information Systems  3.00-
An introduction to the field of management information systems. Emphasis is placed on the role of computers and information in a modern organization. State-of-the-art business software is used to analyze managerial problems and develop solutions. A variety of information systems problems are studied using case methods. This course is only offered in the MAP program.
MIS-265  Geographic Information Systems  3.00-
See BIO-265.

MIS-265L  Geographic Information Systems Lab  -
MIS-265 lab.

MIS-280  Special Topics in Information Systems  1.00-4.00
Selected current topics of interest to the M.I.S. field. 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.

MIS-290  Business Applications Development  3.00-
An applied project seminar in business technology. It is expected that the project will address a particular business issue or e-commerce problem targeted toward the student’s major. Students will learn to use applications specific to their major in addition to discussing current issues and future trends in technology as well as strategies for dealing with these changes.
Take BUS-209. (Required, Previous).

MIS-317  Web Applications Development  3.00-
The course will introduce students to the fundamental areas of internet website development and design using simple tools like HTML and FrontPage. This course is for all students who are interested in studying and designing personal, business, or organization web site designs.
Take BUS-109 or MGT-250. (Required, Previous).

MIS-332  Project Management Methodologies  3.00-
Examines business project management methodologies used to effectively plan, direct and control project activities to achieve schedule, budget and performance objectives. Review the project life cycle, organization and charters, work breakdown structures, responsibility matrixes, cost budgeting, scheduling and resource allocation. Explore planning and control methods such as PERT and Gantt charts, earned value management, and an overview of project management software applications. Includes an introduction to requirements for the Project Management Institute PMP (Project Management Professional) Certification Exam, which is required by many employers seeking project managers. This course is only offered in the MAP program.
Take MGT-250. (Required, Previous).

MIS-342  Project Planning and Control  3.00-
Examination of the elements of project planning and control by studying each element in depth. Addresses topics such as work breakdown structure, budgets, costs, resource planning and allocation, project monitoring and reporting, and project and process control methods, as well as the termination and audit of a project. The objective of this course is to understand the importance of planning and scheduling to the successful completion of a project. This course is only offered in the MAP program.
Take MIS-332. (Required, Previous).
MIS-362  Team Building & Interpersonal Dynamics  3.00-
An overview of the issues of quality applied to human resources management. Topics include the
delegation of authority and empowerment, work groups, team building, and employee involvement,
reward/recognition programs and employee morale, and the importance of written and oral
communication skills in the delegation, sharing, and execution of work. Focus will be on managing
indirect reports throughout the project duration from implementation to successful closing. This course
is only offered in the MAP program.
Take MIS-342. (Required, Previous).

MIS-372  Project Accounting Methods  3.00-
A study of the application of cost accounting concepts to a project according to its contractual
parameters. The course will develop alternative cost methods and outline an approach to track and
measure the progress of any project according to its contractual or planned milestones and
measurement of value. Because projects use scarce organizational resources and therefore care must be
exercised in choosing projects that benefit the organization, participants will learn how to justify the
project’s expenses in relation to the value it creates for the organization. A variety of financial
techniques necessary to quantify costs and benefits are explained, including present-value, return-on-
investment (ROI), and break-even analysis. In addition, a number of practical forecasting techniques for
revenue, expenses, and project growth are presented. Finally, a number of decision-making strategies
are shown to help in making informed project decisions. This course is only offered in the MAP program.
Take MIS-362. (Required, Previous).

MIS-380  Special Topics in Information Systems  1.00-4.00
Selected current topics of interest to the M.I.S. field. 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.

MIS-499  Independent Study  1.00-3.00
Guided readings, research and/or development of managerial computer applications. May enroll for one
to three credits.

MKT-240  Principles of Marketing  3.00-
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).

MKT-301  New Media Marketing 3.00-
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 BUS-109. (Required, Previous).
MKT-305  Business Research Methods  3.00-
Students prepare a research paper applying statistical methods to real-world applications.
Take 1 courses; From rule DA.STATS. (Required, Previous). | Take BUS-209 or MKT-240. (Required, Previous).

MKT-338  Global Marketing  3.00-
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 BUS-209 or MKT-240. (Required, Previous).

MKT-341  Promotion  3.00-
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 BUS-209 or MKT-240. (Required, Previous).

MKT-342  Selling and Sales Management 3.00-
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  3.00-
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).

MKT-348  Sport Marketing and Sponsorship  3.00-
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 BUS-209 or MKT-240. (Required, Previous).
MKT-366  Strategic Communication Project  3.00-
See COM-365.
Take 30 credits. (Required, Previous).

MKT-374   Sales, Technology & Analytics  3.00-
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-442  Advanced Professional Selling  3.00-
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, teamselling, 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).

MKT-444  Negotiation  3.00-
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 BUS-209 or MKT-240. (Required, Previous).

MKT-445  National Student Advertising Competition  3.00-
This course encompasses intensive investigation of the special problems involved in developing campaign concepts. Using the AAF National Student Advertising Competition to determine client, budget and campaign objective, students will develop an advertising/marketing/media strategy. The fully developed and designed marketing communications campaign will be ready to present to a panel of industry executives at the AAF District Conference in the spring and, if selected to advance, the AAF National Conference in early June. This course can be repeated and count as 2 upper level marketing electives, or 1 upper level marketing elective and an elective business experience.

MKT-446  Strategic Marketing  3.00-
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 BUS-209 or MKT-240. (Required, Previous).

**MUL-100**  Trumpet  **0.50-1.00**
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  **0.50-1.00**
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  **0.50-1.00**
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-103**  Trombone  **0.50-1.00**
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  **0.50-1.00**
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  **0.50-1.00**
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  0.50-1.00
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  0.50-1.00
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  0.50-1.00
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  0.50-1.00
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  0.50-1.00
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 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  0.50-1.00
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  0.50-1.00
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  0.50-1.00**
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  0.50-1.00**
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  0.50-1.00**
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  0.50-1.00**
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  0.50-1.00**
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-152  Electric Bass  0.50-1.00**
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  0.50-1.00**
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  0.50-1.00**
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  0.50-1.00**
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  0.50-1.00**
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  0.50-1.00**
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-177  Oboe  0.50-1.00**
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  0.50-1.00  
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  0.50-1.00  
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-201  Baritone  0.50-1.00  
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-202  French Horn  0.50-1.00  
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-203  Trombone  0.50-1.00  
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-204  Bass Trombone  0.50-1.00  
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-205  Tuba  0.50-1.00  
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-215 Piano 0.50-1.00**
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-216 Organ 0.50-1.00**
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-217 Harpsichord 0.50-1.00**
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-225 Class Piano III 0.50-1.00**
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 0.50-1.00**
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 0.50-1.00**
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-245 Violin 0.50-1.00
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-246 Viola 0.50-1.00
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-247 Violoncello 0.50-1.00
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-248 Contrabass 0.50-1.00
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-249 Harp 0.50-1.00
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-250 Guitar 0.50-1.00
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-252 Electric Bass 0.50-1.00
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-261  Voice  0.50-1.00**
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-271  Voice Class  0.50-1.00**
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  0.50-1.00**
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-275  Clarinet  0.50-1.00**
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-276  Saxophone  0.50-1.00**
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-277  Oboe  0.50-1.00**
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-279  Bassoon  0.50-1.00**
Open to music majors and minors only, 200-level private lessons help prepare the student for required recitals. 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-304  Bass Trombone  0.50-1.00**
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  0.50-1.00**
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-404  Bass Trombone  0.50-1.00**
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  0.50-1.00**
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 0.50-1.00**
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 0.50-1.00**
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 0.50-1.00**
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**
MUS-103 lab for non-majors only.

**MUS-104 Brass Ensemble 0.50-1.00**
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 0.50-1.00**
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  0.50-1.00
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  0.50-1.00
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-109  String Ensemble  0.50-1.00
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  3.00-
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  3.00-
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).

MUS-126 Theory II  3.00-
A continuation of MUS-125. Fee required. Take MUS-125. (Required, Previous). | Take MUS-167. (Required, Concurrent).

MUS-127 Appreciation of Music  3.00-
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  1.00-
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-143  Musical Theatre Dance Techniques  2.00-
See THE-143.

MUS-158  World Drumming Ensemble  0.50-1.00
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  1.00-
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  1.00-
Continuation of MUS 166 including more advanced sight singing, dictation, chord recognition, error detection, and related activities.
Take MUS-166. (Required, Previous).

MUS-169  Knight Chorale  0.50-1.00
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  0.50-1.00
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 3.00-
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  2.00-
Study of vocal production, introduction to diction and a brief survey of vocal literature.

MUS-227  Diction I  2.00-
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  2.00-
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  2.00-
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  3.00-
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  2.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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 worshiping assembly.

MUS-261  Music Fundamentals for Classroom Teacher  3.00-
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  1.00-
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  1.00-
Continuation of MUS 266 emphasizing advanced chromatic and twentieth-century aural materials.
Take MUS-167. (Required, Previous).

MUS-268  History of Musical Theatre  3.00-
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  3.00-
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  3.00-
Continuation of MUS-325.
Take MUS-325. (Required, Previous). | Take MUS-267. (Required, Concurrent).

MUS-328  Instrumental and Choral Arranging  2.00-
A study of scoring techniques for instrumental and vocal ensembles.

MUS-330  Basic Conducting  2.00-
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  2.00-
Study and pedagogy of the basic techniques of various percussion instruments K-12.

MUS-340  Music of World Cultures  3.00-
A survey of music beyond traditional Western disciplines.

MUS-342  String Teaching Methods  2.00-
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  2.00-
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  2.00-
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  2.00-
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).
MUS-349  Music History II  2.00-
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  2.00-
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  2.00-
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  2.00-
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  2.00-
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  3.00-
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  2.00-
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  2.00-
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 administration, curriculum development, literature selection, instructional planning, and teaching
strategies. This course will include a lab band.

**MUS-376  Choral Music Methods II  2.00-**
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  2.00-3.00**
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  2.00-**
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  2.00-**
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  3.00-**
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  2.00-3.00**
Guided readings and research. May enroll for two to three credits.
NSG-129  Nursing Concepts and Connections  1.00-
Open to nursing majors only. This course introduces concepts of nursing and their relationship to professional nursing practice.

NSG-201  Health Assessment and Communication  4.00-
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 -
NSG-201 clinical. For the campus based nursing students: Clinical schedule is subject to change due to 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  3.00-
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  2.00-
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-233  Nutrition  1.00-
This course focuses on major nutritional concepts and prepares the student with the knowledge, skills and attitudes to promote health and reduce chronic disease risk through education on healthful diets for individuals, families and communities.

NSG-241  Fundamentals  4.00-
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  
NSG-241 clinical. For the campus based nursing students: Clinical schedule is subject to change due to 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  4.00-
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 -
NSG-251 lab.
Take NSG-251. (Required, Concurrent).

NSG-307  Care of the Childbearing Client in Community  3.00-
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).

NSG-307C  Care of the Childbearing Client Clinical -
NSG-307 clinical. For the campus based nursing students: Clinical schedule is subject to change due to 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  2.00-
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  3.00-
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).

NSG-317C  Care of the Pediatric Client Clinical -
NSG-317 clinical. For the campus based nursing students: Clinical schedule is subject to change due to
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).

**NSG-328 Nursing Seminar 3.00-**
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 5.00-**
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**
NSG-331 clinical. For the campus based nursing students: Clinical schedule is subject to change due to 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 4.00-**
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**
NSG-335 clinical. For the campus based nursing students: Clinical schedule is subject to change due to 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  3.00-
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. Take PSY-205 or BUS-205. (Required, Previous).

NSG-360  Internship in Nursing  2.00-
An approved internship in the field of nursing.

NSG-410  Gerontological Issues in Health Care  2.00-
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  3.00-
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  2.00-
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  2.00-
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.

NSG-425  Holistic Self-Care  2.00-
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.
NSG-427  Bereavement and End of Life Care 2.00-
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 3.00-
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 3.00-
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 5.00-
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 -
NSG-431 clinical. For the campus based nursing students: Clinical schedule is subject to change due to 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 2.00-
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 4.00-
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.
Take NSG-431 or NSG-328. (Required, Previous).
NSG-441C  Leadership/Community in the Nursing Prof Clinical  -
NSG-441 clinical. For the campus based nursing students: Clinical schedule is subject to change due to 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 2.00-
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 4.00-
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 5.00-
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  -
NSG-451 clinical.
Take NSG-451. (Required, Concurrent).

NSG-478  Foundations of Faith Community Nursing 3.00-
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).

NSG-480  Special Topics in Nursing 1.00-3.00
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 1.00-**
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  2.00-**
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  1.00-**
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).

**NUA-100  Dosage Calculations  3.00-**

**NUA-120  Fundamentals of Nursing  6.00-**
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  5.00-**
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  -**
NUA-121 clinical.
Take NUA-121. (Required, Concurrent).
NUA-130  Medical Terminology for Nursing  2.00-
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  3.00-
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  5.00-
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 -
NUA-200 clinical.
Take NUA-200. (Required, Concurrent).

NUA-215  Pharmacology  3.00-
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  5.00-
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  
NUA-225 clinical.
Take NUA-225. (Required, Concurrent).

NUA-245  Mental Health Nursing 5.00-
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  
NUA-245 clinical
Take NUA-245. (Required, Concurrent).

NUA-265  Nursing Issues 3.00-
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).

NUA-270  Nursing Capstone 6.00-
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  
NUA-270 clinical.
Take NUA-270. (Required, Concurrent).

NUB-470  Interprofessional Communications 3.00-
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).
PBH-100  Introduction to Human Services & Social Problems  3.00-
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  3.00-
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 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  3.00-
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  3.00-
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  3.00-
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  3.00-
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 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  1.00-3.00
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  3.00-
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  3.00-
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  3.00-
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  1.00-2.00
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).

PHL-130  Human Nature and Person  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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).

PHL-250  Introduction to Symbolic Logic  3.00-
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  3.00-
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  3.00-
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  3.00-
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). | Take PHL-150. (Required, Previous). | Take PHL-215. (Required, Previous).

**PHL-310 Kafka, Kierkegaard, Dostoyevsky and Camus 3.00-**

**PHL-315 Ethical Conduct in Research 3.00-**
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. Take PHL-215. (Required, Previous).

**PHL-320 Philosophy of Knowledge 3.00-**
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 3.00-**
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) 3.00-**
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 3.00-**
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  3.00-**
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 3.00-**
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  3.00-**
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.

**PHL-381  Selected Topics in Catholic Studies  3.00-**
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  3.00-**
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  3.00-**
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  3.00-
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  3.00-
Guided readings and research.

PHL-H30  Honors Human Nature and Person  3.00-
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  4.00-
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.

PHY-110L  General Physics I Lab -
PHY-110 lab.
Take PHY-110. (Required, Concurrent).

PHY-111  General Physics II  4.00-
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 -
PHY-111 lab.
Take PHY-111. (Required, Concurrent).

PHY-201  University Physics I  4.00-
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  -  PHY-201 lab.
Take PHY-201. (Required, Concurrent).

PHY-202  University Physics II  4.00-
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  -  PHY-202 lab.
Take PHY-202. (Required, Concurrent).

PHY-212  Modern Physics  4.00-
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  3.00-
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  4.00-
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  -  PHY-230 lab.
Take PHY-230. (Required, Concurrent).

PHY-240  Materials  2.00-
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  3.00-
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 3.00-
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 3.00-
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 3.00-
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 1.00-3.00
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).

PHY-410 Current Topics in Physics 3.00-
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 3.00-
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 1.00-3.00
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 2.00-
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 1.00-4.00**
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 3.00-**
Guided readings and research.
Take PHY-111 or PHY-202. (Required, Previous).

**POL-102 Introduction to American Politics 3.00-**
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.

**POL-155 Introduction to Peace Studies 3.00-**
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 3.00-**
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 3.00-**
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 3.00-**
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  3.00-
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  1.00-3.00
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  3.00-
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.

POL-325  Game Theory and Strategic Thinking  3.00-
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  3.00-
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  3.00-
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  3.00-
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 3.00-**
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 3.00-**
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 3.00-**
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.

**POL-357 Civil Wars and Ethnic Conflicts 3.00-**
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, nongovernmental 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 3.00-**
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 3.00-**
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
POL-365  Voting, Campaigns, and Elections   3.00-
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  3.00-
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  3.00-
Women and Politics will examine women's 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  1.00-3.00
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-460  Internship in Political Science  2.00-4.00
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  3.00-
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  3.00-
Guided readings and research.

PSY-101  General Psychology  3.00-
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 1.00-
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 3.00-
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 1.00-
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, 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 3.00-
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 3.00-
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 4.00-
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 3.00-**
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 3.00-**
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 Psyc 3.00-**
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 3.00-**
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 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 3.00-**
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 3.00-**
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 3.00-**
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 3.00-**
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 3.00-**
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. Take PSY-101 or PSY-220. (Required, Previous).

**PSY-341 Exercise Psychology 3.00-**
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 3.00-**
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 3.00-**
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  3.00-
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  2.00-3.00
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  3.00-
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).

PSY-367  Cross-Cultural Psychology  3.00-
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  3.00-
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  3.00-
See ART-371.
Take PSY-230. (Required, Previous).

PSY-373  Forensic Psychology  3.00-
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  2.00-3.00**
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  3.00-**
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.

**PSY-405  Advanced Statistics  3.00-**
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  3.00-**
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  3.00-**
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  2.00-3.00**
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 2.00-3.00**
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 3.00-**
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 2.00-**
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 2.00-**
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 1.00-3.00**
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 4.00-**
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 -**
SCI-101 lab.
Take SCI-101. (Required, Concurrent).
SCI-102 Life Sciences 4.00-
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 -
SCI-102 lab.
Take SCI-102. (Required, Concurrent).

SCI-103 Physical Sciences 3.00-
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.

SCI-104L Physical Sciences Lab 1.00-
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 3.00-
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, Environment, & Soc- Ecolab Lab 1.00-
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, Environment, & Soc- Energy Lab 1.00-
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-301 Science and Health for the Elementary Teacher 3.00-
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.

SCI-301L Science and Health for the Elementary Teacher Lab -
SCI-301 lab.
Take SCI-301. (Required, Concurrent).

SCI-305 Global Persp in Environmental Science 3.00-
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 1.00-3.00
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 1.00-3.00
Special topics as deemed necessary. See course section comments for description. Descriptions prior to summer 2022 can be viewed at marian.edu/registrar.

SOC-100 Experiential Learning: Community Service 1.00-2.00
Volunteer experience appropriate to the students interest at an approved site under the supervision of a field supervisor and monitored by a faculty member. Credit may apply toward the 128-hour degree total, but does not satisfy hours toward major, minor or general education requirements. 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 3.00-
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.
SOC-145  Introduction to Social Justice  3.00-
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-175  Introduction to Anthropology  3.00-
This course is a comprehensive introduction to anthropology that emphasizes the integration of the different fields of physical anthropology, archaeology, linguistic and cultural anthropology. The aim is to provide a sampling of anthropological research into human evolution and human cultures from the remote past to the present. This course satisfies general education curriculum standards for behavioral and social knowledge.

SOC-205  Social Science Statistics  3.00-
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  3.00-
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  3.00-
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-255  Environmental Sociology  3.00-
The study of the interactions between the physical environment, social organization and social behavior. This course uses different theoretical perspectives from within the social sciences to study how people are affected by the environment and how people's behavior impacts the environment. This class requires students to become engaged in environmental practices in the community (University, home/living residence, church or workplace).
Take SOC-101 or SOC-175. (Required, Previous).
SOC-265  Introduction to Social Work  3.00-
See SWK-110.

SOC-266  Sociology of Death and Dying  3.00-
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  3.00-
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).

SOC-275  Cultural Anthropology  3.00-
This course analyzes the complex relationships between schooling and inequalities based on social class, race, gender, and sexuality in contemporary society, and the implications of these relationships for educational policy development.
Take SOC-101. (Required, Previous).

SOC-280  Special Topics in Sociology  1.00-3.00
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  3.00-
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  3.00-
This course examines the gendered construction of various social institutions, including family, religion and government, in an historical and cross-national context.
Take SOC-101. (Required, Previous).

SOC-315  Native American Culture History  3.00-
This course provides a general view of the variations in the lifeways of Native Americans. This study places native populations in a broad comparative context, investigating the cultural variation between the societies of the major culture areas of North American and the impact upon them through European contact and subsequent U.S. policies. This course partially fulfills the general education requirement in the cultural awareness category.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SOC-320</td>
<td>Race and Ethnic Relations</td>
<td>3.00</td>
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<td></td>
<td>This course examines the historical social</td>
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<td></td>
<td>construction of race in the U.S., the</td>
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<td>development of racist practices by</td>
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<td></td>
<td>individuals and institutions, and the</td>
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<td></td>
<td>consequences of those practices, especially</td>
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<td></td>
<td>the persistence of racial inequality. This</td>
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<td></td>
<td>course examines U.S. racial/ethnic groups,</td>
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<td>including whites, as well as the</td>
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<td></td>
<td>intersections of race with other</td>
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<td></td>
<td>inequalities, such as class, sexuality, and</td>
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<td>gender.</td>
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<td>Take SOC-101. (Required, Previous).</td>
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<tr>
<td>SOC-325</td>
<td>Social Class, Power, and Inequality</td>
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<td>This course examines class, status, and power</td>
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<td>relations in society as they relate to social</td>
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<td>mobility, work, globalization, and social</td>
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<td>change.</td>
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<td>Take SOC-101. (Required, Previous).</td>
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<tr>
<td>SOC-332</td>
<td>Community Organizing for Social Justice</td>
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<td></td>
<td>See COM-332.</td>
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<td>Take 30 credits. (Required, Previous).</td>
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<tr>
<td>SOC-335</td>
<td>Sociology of Health and Illness</td>
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<td>This course examines the social context of</td>
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<td>health, illness, and healthcare. Topics</td>
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<td>include the social conditions of health and</td>
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<td>illness, social epidemiology, the social</td>
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<td>construction of health and illness,</td>
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<td>environmental health, advanced technologies,</td>
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<td>cultures of risk, mental health and illness,</td>
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<td>health behaviors, experiences of illness, the</td>
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<td>political economy of health and illness, and</td>
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<td>health care systems and reforms.</td>
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<td>Take SOC-101. (Required, Previous).</td>
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<tr>
<td>SOC-336</td>
<td>Sociology of Deviant Behavior</td>
<td>3.00</td>
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<td>This course is an introduction to the study of</td>
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<td>deviance and deviant behavior. This course</td>
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<td></td>
<td>seeks to examine societal reactions to deviant</td>
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<td>behaviors. Particular attention will be given</td>
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<td>to major theoretical perspectives in the</td>
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<td>study of deviance, and we will explore</td>
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<td>controversial topics including suicide, rape,</td>
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<td>gang related behaviors, hate crimes, moral</td>
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<td>panics, prostitution, and murder and school</td>
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<td>shootings.</td>
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<td>Take SOC-101. (Required, Previous).</td>
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<tr>
<td>SOC-360</td>
<td>Experiential Learning: Social Justice In Action</td>
<td>2.00-4.00</td>
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<td>Through collaboration with community activists,</td>
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<td>students work for and provide social justice</td>
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<td>organizations analytical and research skills</td>
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<td>while gaining hands-on experience in the</td>
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<td>practical work of social justice. Course can</td>
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<td>be repeated for up to 6 credits; however, only</td>
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<td>3 credits can count as an elective toward the</td>
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<td>Peace and Justice Studies minor. Graded S/U.</td>
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<td>Take SOC-145. (Required, Previous).</td>
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<td>SOC-366</td>
<td>Death &amp; Dying in Global Persp</td>
<td>3.00</td>
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<tr>
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<td>A comparative, anthropological examination of</td>
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<td>customs, practices, and beliefs surrounding</td>
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<td>life and death. What constitutes life? What</td>
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<td>determines well-being? How are these measured?</td>
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<td>Likewise, what constitutes a good or bad death,</td>
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<td>by what medical definition, and according to</td>
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<td>what rituals and beliefs? Practices related to</td>
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<td>grieving, memorializing the deceased, and</td>
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<td>handling of bodies will be investigated in</td>
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<td>order to understand their origins and</td>
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<td>consequences in social life.</td>
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<td>Take GLS-101. (Required, Previous).</td>
<td>Take SOC-101. (Required, Previous).</td>
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</table>
SOC-375  Social Movements 3.00-
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 3.00-
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 1.00-3.00
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-450  Sociological Theory 3.00-
This course undertakes a historical and analytic exploration of major classical and contemporary social theories with attention to their development and transformations.
Take SOC-101. (Required, Previous). | Take 94 credits. (Required, Previous).

SOC-451  Social Psychology 3.00-
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.
Take SOC-101. (Required, Previous). | Take 62 credits. (Required, Previous).

SOC-460  Internship in Sociology 2.00-4.00
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 3.00-
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 3.00-**
Guided readings and research. May enroll for 1-3 credits.

**SPA-101 Introduction to Spanish I 3.00-**
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 3.00-**
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 3.00-**
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 1.00-3.00**
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.

**SPA-200 Intermediate Spanish I 3.00-**
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  3.00-
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  3.00-
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  3.00-
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  3.00-
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).

SPA-230  Oral Communication in Spanish  3.00-
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  3.00-9.00
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  3.00-**
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  3.00-**
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  3.00-**
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 3.00-**
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 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  3.00-**
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  3.00-**
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 3.00-**
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 3.00-**
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 3.00-**
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.
Take SPA-220 SPA-310 or SPA-311. (Required, Previous).

**SPA-350  History and Culture of Latin America 3.00-**
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 3.00-**
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 1.00-6.00**
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  3.00-9.00
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  3.00-
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  1.00-6.00
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).

SPA-480  Special Topics in Spanish  3.00-9.00
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 1.00-
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  2.00-
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  2.00-3.00
Guided readings and research.
Take 62 credits. (Required, Previous).

SPD-130 Introduction to Exceptional Children  3.00-
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  -
Introduction to Ex Children Lab
Take SPD-130. (Required, Concurrent).

SPD-230 Intro to Special Education for General Education Teachers  3.00-
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  -
Intro to Sped for Gen Ed Tchrs Lab
Take SPD-230. (Required, Concurrent).

SPD-233 Assessment of Children With Exceptional Needs  3.00-
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  -
Assess of Chldn With Ex Needs Lab
Take SPD-233. (Required, Concurrent).

SPD-338 Exceptional Needs: Methods and Program Management  3.00-
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  3.00-**
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** - 
Mthds Trans & Car Assess Lab 
Take SPD-354. (Required, Concurrent).

**SPD-369  Applied Behavior Programming in Special Education  3.00-**
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).

**SPD-369L  Applied Behavior Programming in Special** - 
SPD-369 lab. 
Take SPD-369. (Required, Concurrent).

**SPD-439  Exceptional Needs: Collaboration and Consultation  3.00-**
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** - 
SPD-439 lab. 
Take SPD-439. (Required, Concurrent).

**STA-205  Elementary Applied Statistics  3.00-**
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  3.00-
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  3.00-
see SOC-145

SWK-200  Human Behavior and the Social Environment  3.00-
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  3.00-
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).

SWK-240  Grief and Loss  3.00-
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  3.00-
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  3.00-**
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  1.00-3.00**
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  3.00-**
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).

**SWK-320  Race and Ethnic Relations  3.00-**
see SOC-320
Take SOC-101. (Required, Previous).

**SWK-325  Social Class, Power, and Inequality  3.00-**
see SOC-325
Take SOC-101. (Required, Previous).

**SWK-350  Social Work Research and Assessment  3.00-**
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  3.00-**
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 1.00-3.00
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 3.00-
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 3.00-
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).

SWK-460 Social Work Practicum II 3.00-
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 3.00-
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 3.00-
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 1.00-3.00
Guided readings and research. May enroll for 1-3 credits.

THE-105 Theatre Production 0.50-1.00
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 3.00-
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-120 Acting I 3.00-
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 3.00-
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 2.00-
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 3.00-
See ART-201.

THE-206 Visual Design Concepts 3.00-
See ART-206.

THE-225 Music Theatre Performance Workshop 3.00-
See MUS-200.

THE-231 Design for Theatre I 3.00-
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 3.00-
See COM-235.

THE-245 Page to Stage: Studies in Dramatic Literature and Performance 3.00-
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.

THE-250 Applied Theatre and the Franciscan Value 3.00-
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 3.00-
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 3.00-
See MUS-268.

THE-275 Intro to Film Production 3.00-
See COM-275.

THE-280 Special Topics in Theatre 3.00-
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
THE-310       Survey of Dramatic Literature       3.00-
This course exposes the student to critical approaches to representative major plays and playwrights throughout history.

THE-320       Acting II       3.00-
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       3.00-
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.

THE-333       Modern Drama       3.00-
See ENG-333.
Take ENG-112. (Required, Previous).

THE-334       Modern Women Playwrights       3.00-
See ENG-334.
Take ENG-112. (Required, Previous).

THE-335       Shakespeare       3.00-
See ENG-330.
Take ENG-112. (Required, Previous).

THE-360       Internship in Theatre       3.00-
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       3.00-
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 3.00-
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 1.00-3.00
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 3.00-
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 3.00-
Course may include guided readings, research or production projects.
Take 62 credits. (Required, Previous).

THL-103 Catholic Beliefs and Practices 3.00-
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 3.00-
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) 3.00-
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 3.00-
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 1.00-
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 3.00-
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 education curriculum standards of faith, ethics, and foundations of thought.

THL-130 Introduction to Biblical Greek II 3.00-
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-
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-
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 3.00-
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 0.50-
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 0.50-**
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 1.00-3.00**
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-205 Studies in Jesus the Christ 3.00-**
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 3.00-**
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. (Required, Previous).

**THL-216 Moral Issues 3.00-**
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 3.00-**
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  3.00-
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 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  3.00-
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 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. (Required, Previous).

THL-228  New Testament  3.00-
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. (Required, Previous).

THL-232  History of Christian Thought  3.00-
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. (Required, Previous).

THL-236  Liturgy and Spirituality  3.00-
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-
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-
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  3.00-
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 given to the issue of vocation and discernment. Open only to San Damiano Scholars
Take THL-226 THL-228 or THL-105. (Required, Previous).

THL-272  Sexual Minorities & Christianity Pastoral Care & Spiritual Accompaniment  3.00-
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  0.50-
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  0.50-
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  3.00-
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  3.00-
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. (Required, Previous).

**THL-311  Biblical Interpretation Pastoral Care & Spiritual Accompaniment  3.00-**
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  3.00-**
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 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  3.00-**
A study of sexual ethics with a particular emphasis on the dignity of the human person, conscience formation, and the struggle to live authenticly. 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  3.00-**
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. (Required, Previous).

**THL-322  Catholic Social Teaching  3.00-**
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. (Required, Previous).

**THL-324**  Pentateuch Pastoral Care & Spiritual Accompaniment 3.00-
Take THL-226. (Required, Previous). | Take THL-311. (Required, Previous).

**THL-325**  Poetic & Wisdom Literature Pastoral Care & Spiritual Accompaniment 3.00-
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).

**THL-329**  The Gospels Pastoral Care & Spiritual Accompaniment 3.00-
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 3.00-
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 3.00-
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. (Required, Previous).

**THL-336**  Liturgy, Prayer, & Sacraments Pastoral Care & Spiritual Accompaniment 3.00-
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 3.00-
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 3.00-**
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).

**THL-345 Mentoring in Ministry 0.25-**
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-**
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 3.00-**
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 3.00-**
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 3.00-**
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 3.00-**
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 3.00-
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 the practical side of youth ministry as well as learn to think theologically about youth ministry as an indispensable, holistic, and comprehensive ministry within the 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 0.50-
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 0.50-
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 1.00-3.00
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 3.00-
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  3.00-
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 3.00-
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).

THL-428  Revelation Pastoral Care & Spiritual Accompaniment  3.00-
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-
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-
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  2.00-4.00
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  3.00-
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  3.00-**
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 verbata.

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  3.00-**
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.

**THL-476  Internship  1.00-**
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  1.00-3.00**
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  3.00-**
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  1.00-3.00**
Guided readings and research.
THL-H05  Honors Introduction to Theology  3.00-
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.

VNP-100  Public Health and Safety  1.00-
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  2.00-
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  4.00-
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 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  2.00-
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  3.00-
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  2.00-
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  3.00-
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 2.00-
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, 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  3.00-
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  3.00-
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 or 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 2.00-
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 1.00-
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).

VNP-250 Surgery and Anesthesia 3.00-
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 3.00-
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  3.00-
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  2.00-
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 is 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  1.00-
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 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  3.00-
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  3.00-
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).