



2023-2024 Course Catalog

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Course Information and Descriptions

Course Numbering System

- The first digit shows the level at which a course is ordinarily taught.
 - "1" level courses are open to first-term freshmen.
 - "2" level courses are open to freshmen, but typically have a college-level prerequisite.
 - "3" level courses are upper-level courses.
 - "4" level courses are typically terminal courses within a major.
- The second digit in the course number shows the credit hours of credit the course carries.
- The remaining two numbers indicate a sequence within the discipline.
- The numbers following the course title designate the numbers of lecture/lab hours the course requires each week (based on a traditional 15-week semester).

Independent Study

XXXX 3399 Independent Study: (Topic)

Individual tutorial emphasizing close reading and discussion of literature in an area of the student's interest. Student decides on area of interest, prepares initial draft of syllabus, objectives, and textbook selection. Student presents prepared information to selected faculty sponsor for review and approval. Prerequisites: A 2.75 cumulative GPA and a 3.25 average GPA in either: twelve credit hours of course work in the chosen discipline, including six upper-level-hours. and consent of instructor and Program Coordinator, are required. Additional fee required.

National/International Study

XXXX 3398 National/International Studies: Study of _____. Allows students to experience other cultures first-hand through travel. Experiences are arranged carefully prior to, during and following the trip to enhance student learning. Course may be offered on a Pass/Fail basis and with variable credit from one to three credit hours. Course may be repeated with varied topics. Standard tuition is not charged. Course fee includes cumulative cost of trip + \$200 administrative fee. A travel course lasting four or more days may fulfill all or part of the Experiential Learning requirement.

Accounting

ACC 2301 Fundamentals of Financial Accounting

Students will study the accounting cycle, financial statements, accounting analysis, assets, liabilities, capital and analysis of financial statements.

Pre-Requisites: None; College Algebra or Intro to Statistics strongly recommended.

ACC 2302 Fundamentals of Managerial Accounting

Students will study accounting for partnerships and corporation owner's equity, management accounting, and developing information for production decision making.

Pre-Requisites: ACC 2301

ACC 3301 Intermediate Accounting I

Provides in-depth knowledge of basic accounting principles and procedures including analysis of traditional accounting statements to discern organizational strengths and weaknesses.

Pre-Requisites: ACC 2301 and ACC 2302

ACC 3302 Intermediate Accounting II

A continuation of ACC 3301.

Pre-Requisites: ACC 2301, ACC 2302, and ACC 3301

ACC 3320 Fundamentals of Taxation

Introduction to the role of taxes in contemporary society and their impact on individuals and business entities with emphasis on Federal income taxation.

Pre-Requisites: ACC 2301 and ACC 2302.

ACC 3370 Auditing Theory and Practice

Principles and procedures applied by independent auditors and internal auditors, responsibilities of auditors, development of audit programs, accumulation of evidence, statistical and EDP auditing applications and reporting.

Pre-Requisites: ACC 2301 and ACC 2302

ACC 3382 Fraud Examination

Develops an understanding and appreciation of the major methods employees use to commit occupational fraud. Students will learn how and why occupational fraud is committed, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved.

Pre-Requisites: ACC 2301 and ACC 2302

ACC 4310 Accounting Internship

Provides students with job searching skills, on-the-job work experience and training related to academic education and long-term goals. May be repeated once for credit as an elective, but only three credit hours will count toward any accounting major. Fulfills experiential learning requirement.

Pre-Requisites: ACC 3301, ACC 3302, and 6 additional hours of upper level Accounting coursework

ACC 4380 Advanced Financial Accounting

Accounting problems in respect to multiple ownership, consolidated financial statements and partnership accounts; modern currency translations; segmental reporting, and advanced accounting theory.

Pre-Requisites: ACC 2301, ACC 2302, ACC 3301 and ACC 3302

American Sign Language

ASL 1401 American Sign Language I

American Sign Language (ASL) is the language of the Deaf community in the United States and Canada. The course also treats Deaf culture. This course, together with ASL 1402, meets

requirement for modern language.

Pre-Requisites: None

ASL 1402 American Sign Language II

American Sign Language (ASL) is the further study of the language of the Deaf community in the United States and Canada. American Sign Language I and II (ASL 1401 and ASL 1402) together meet the requirement for modern language.

Pre-Requisites: Successful completion of ASL 1401

Art

ART 1302 Survey of Art History

This class is designed as a survey of the history of Western art from ancient through contemporary times, with emphasis on the major artists and works of art. It will also introduce some of the major methodologies used to approach topics in art history. Class time will be divided between slide lectures and in-class discussions over the readings.

Pre-Requisites: None

ART 1305 Introduction to Art History: Modern

This course covers the history of visual art from the Renaissance to the present. It is taught with a European-American perspective, and includes painting, sculpture, architecture and other major areas of study.

Pre-Requisites: None

ART 1306 Drawing Media

Basic drawing using graphite as the primary media. Will also include some or all of the following: charcoal, ink, metal point, monoprint, and oil sticks.

Pre-Requisites: None

ART 1308 Introduction to Photography

Basic photography course with emphasis upon technical skill development, camera use and operation, digital operation methods and techniques.

Pre-Requisites: None

ART 1315 Art Theory and Practice

A survey which includes study of art history, art criticism, aesthetics, and studio production, including study and use of all principles and elements of art in a variety of media, practicing critical evaluation of art production in progress; and development of knowledge and skills for personal growth.

Pre-Requisites: None

ART 2310 Glass – Fusing and Slumping

An introduction to the sculptural qualities of glass through fusing and slumping processes. Class content will emphasize the process of ideation and design utilizing surface, translucency, and

transparency. May be repeated for credit with instructor permission.

Pre-Requisites: None. Course Fee: \$45

ART 2320 Ceramics

Study of hand building techniques, clay bodies, and glazes using low fire clay. May be repeated for credit.

Pre-Requisites: None. Course Fee: \$45

ART 3308 Color

This color course offers a new interdisciplinary model connecting diverse experiences and practical tools to navigate the complex network of color codes we inhabit. Exploration of color theories includes the practical use of color in its many different everyday engagements.

Pre-Requisites: None

ART 3312 Painting

Study of oil painting techniques, color theory, design application, and styles of various well-known artists. May be repeated for credit.

Pre-Requisites: None. Course Fee: \$45

ART 4306 Art as Vocation

This course prepares you in professional concerns of aesthetics, studio practices, exhibitions, and working with art institutions. Emphasis will be placed on developing an audience, marketing art, planning programs/events, financial planning, writing proposals/grants, and art industry management. Readings will explore artistic vocation with a Biblical, historical, theological, and contemporary perspective.

Pre-Requisites: Successful completion of any 6 credit hours of ART

ART 4312 Painting II

In this course you will continue to increase your skills in oil painting. You will have the opportunity to develop your ideas concerning genres of landscape, still life and the figure, while exploring and expanding your interests in abstraction, representation, collage and digital applications.

Pre-Requisites: Successful completion of ART 3312

Biology

BIO 1101-1106 Field Biology

BIO 1101-1106 are a series of mini-course field experiences to study the ecosystems of selected areas of Texas; some courses require good physical conditioning due to strenuous hiking activity. Field Biology may be repeated for credit under each separate number; the same number course may not be repeated for credit. Up to three of these one-hour courses in any combination may be used as a non-lab Natural Science within the core. These courses require a special course fee to cover travel and special equipment. Fulfills one (1) credit hour of Experiential Learning

Pre-Requisites: Consent of instructor. Course Fee: \$150

BIO 1101 Field Biology East and Southeast Texas

BIO 1102 Field Biology Rio Grande Valley

BIO 1103 Field Biology Southwest Texas

BIO 1104 Field Biology Panhandle and Northwest Texas

BIO 1105 Field Biology Central Texas

BIO 1106 Field Biology Guadalupe Mountains

BIO 1401 Principles of Biology

General concepts of biology with emphasis on man in God's world. This course meets the core natural science requirement for non-science majors. Students should be co-enrolled in the laboratory part of the course, BIO 1401L.

Pre-Requisites: None. Course Fee (BIO 1401L): \$45

BIO 1402 General Zoology

The anatomy, physiology, behavior and ecology of major animal groups. Students should be co-enrolled in the laboratory part of the course, BIO 1402L.

Pre-Requisites: None. Course Fee (BIO 1402L): \$85

BIO 1403 Cellular and Molecular Biology

Modern concepts of cellular functions at the molecular level. This course meets the core natural science requirement. Students should be co-enrolled in the laboratory part of the course, BIO 1403L.

Pre-Requisites: Successful completion of CHE 1341 and 1141, or CHE 1431, with a grade of 'C' or higher. Course Fee (BIO 1403L): \$85

BIO 2403 General Botany

The structure, function, reproduction, taxonomy and ecology of plants. Students should be co-enrolled in the laboratory part of the course, BIO 2403L.

Pre-Requisites: None. Course Fee (BIO 2403L): \$75

BIO 2411 Anatomy & Physiology for Healthcare I

Introduction to the study of human anatomy and physiology for healthcare majors. Begins with an overview of the chemical basis of life and reviews cellular structure, function and metabolism. Course continues with coverage of tissues and five systems (skin and the integumentary system, skeletal system including joints, muscular system, cardiovascular system, and respiratory system) and how they are interconnected, with a particular focus on health. This course may not be used to meet either prerequisites or requisites in majors from the School of Natural and Applied Sciences. Students should be co-enrolled in the laboratory part of the course, BIO 2411L.

Pre-Requisites: Completion of high school Biology and Chemistry or equivalent; preferred completion of CHE 1341 and 1141. Course Fee (BIO 2411L): Varies by course modality.

BIO 2412 Human Anatomy Physiology for Healthcare II

A continuation of the study of human anatomy and physiology for healthcare majors. The course will cover the remaining six systems (nervous system including somatic and special senses, endocrine system, lymphatic system, digestive system, urinary system, and reproductive system) and how they are interconnected, with a particular focus on health. This course may not be used to meet either prerequisites or requisites in majors from the School of Natural and Applied Sciences. Students should be co-enrolled in the laboratory part of the course, BIO 2412L.

Pre-Requisites: Successful completion of BIO 2411 Human Anatomy and Physiology for Healthcare I or BIO 3411 Human Anatomy and Physiology I with a grade of 'C' or higher. Course Fee (BIO 2412L): Varies by course modality.

BIO 2413 Microbiology for Health Sciences

The Microbiology for the Health Sciences class provides an overview of the microbial world. Topics include the basic characteristics of fungi protozoans, bacteria, and viruses. Special emphasis is placed on topics and applications that relate to human health. This course is intended as a prerequisite for entry into the nursing program. This course may not be used to meet either prerequisites or requisites in majors from the School of Natural and Applied Sciences.

Pre-Requisites: None; Anatomy & Physiology I or Cellular & Molecular Biology strongly suggested. Course Fee: \$85

BIO 3302 Tropical Biology

A study of the biology and ecology of tropical ecosystems that includes a substantial field component offered during a semester break or summer. This course also includes a study of environmental concerns and conservation efforts in tropical ecosystems. The field component requires extensive physical exertion and "roughing it." Additional fee for course paid at time of registration. Fulfills Experiential Learning requirement.

Pre-Requisites: Consent of the instructor

BIO 3303 Native Plants

Identification, natural history, economic importance, and ecology of plants native to Central Texas.

Pre-Requisites: None

BIO 3310 Nutrition

A study of the nutrients and other substances in foods and the body's handling of them. Nutrient requirements associated with various life stages and the impact of various disorders and diseases upon nutrition will also be explored.

Pre-Requisites: Completion of a college level laboratory science course

BIO 3350 Biopsychology

An introduction to the structure and function of the nervous system and the relationship between psychological processes and the brain in humans and other animals. Cross-listed with PSY 3350.

Pre-Requisites: PSY 1311 or PSY 1311H. BIO 1403 and BIO 3412 strongly suggested

BIO 3370 Ecology of the Pacific Northwest

A study of the unique wildlife, ecological relationships, and environmental concerns in a variety of aquatic and terrestrial habitats of the U.S. Pacific Northwest. The course includes substantial

independent work throughout the semester and culminates with a field experience typically held in Oregon, Washington, and California that requires substantial hiking, outdoor data collection, and journaling. Additional fee for course paid at time of registration. Fulfills Experiential Learning requirement.

Pre-Requisites: Consent of instructor

BIO 3401 General Microbiology

The structure, physiology, culture, and control of bacteria and other microbes. Students should be co-enrolled in the laboratory part of the course, BIO 3401L.

Pre-Requisites: BIO 1403 with a grade of 'C' or higher. Course Fee (BIO 3401L): \$85

BIO 3403 General Ecology

A study of those factors which affect the abundance, biodiversity and distribution of organisms. Includes ecological theory, mathematical modeling, and natural history and field techniques. Students should be co-enrolled in the laboratory part of the course, BIO 3403L. This course is cross-listed with ESC 3403/ESC 3403L.

Pre-Requisites: BIO 1402 or BIO 2403 with a grade of 'C' or higher. Course Fee (BIO 3403L): \$75

BIO 3404 Genetics

An introduction to classical, molecular, developmental and population genetics with an emphasis on genetic analysis. Students should be co-enrolled in the laboratory part of the course, BIO 3404L.

Pre-Requisites: BIO 1401 or BIO 1403 with a grade of 'C' or higher. Course Fee (BIO 3404L): \$75

BIO 3406 Animal Behavior

An introduction to the study of animal behavior. Cross-listed with PSY 3406.

Pre-Requisites: Any Natural Science course with a grade of 'C' or above. Course Fee: \$75

BIO 3411 Human Anatomy and Physiology I

An introduction to the study of human anatomy and physiology. Beginning with a quick overview of the chemical basis of life and a review of cells and cellular metabolism. The remainder of the course will cover tissues and five systems (skin and the integumentary system, skeletal system including joints, muscular system, cardiovascular system, and respiratory system). Students should be co-enrolled in the laboratory part of the course, BIO 3411L.

Pre-Requisites: BIO 1403 with a grade of 'C' or higher. Course Fee (BIO 3411L): \$85

BIO 3412 Human Anatomy and Physiology II

A continuation of the study of human anatomy and physiology. The course will cover the remaining six systems (nervous system including somatic and special senses, endocrine system, lymphatic system, digestive system, respiratory system, urinary system, and reproductive system) and related topics. Note: Students who have already completed BIO 2401 Human Anatomy and Physiology are not allowed to take this course for credit unless approved by the Coordinator of the Biology Department. Students should be co-enrolled in the laboratory part of the course, BIO 3412L.

Pre-Requisites: BIO 3411 with a grade of 'C' or higher. Course Fee (BIO 3412L): \$85

BIO 3420 Developmental Biology

An introduction to both classical and modern developmental biology including molecular and genetic analysis of development. Students should be co-enrolled in the laboratory part of the

course, BIO 3420L.

Pre-Requisites: BIO 1403 with a grade of 'C' or higher. Course Fee (BIO 3420L): \$75

BIO 3430 Biochemistry

An overview of the macromolecules and small molecules that are the key to all living systems. Topics covered include protein structure and function, enzyme mechanisms, kinetics and regulation, membrane structure and function, bioenergetics, hormone action, intermediary metabolism, including pathways and regulation of carbohydrate, lipid, amino acid, and nucleotide biosynthesis and breakdown. Students should be co-enrolled in the laboratory part of the course, BIO 3430L. This course is cross-listed with CHE 3430/CHE 3430L.

Pre-Requisites: BIO 1403 with a grade of 'C' or higher, and credit or concurrent enrollment in CHE 2401. Course Fee (BIO 3430L): \$85

BIO 4330 Exercise Physiology

This class is a study of the physiological responses of the body to exercise. Emphasis is on the application of the physiological principles deemed most important for understanding physical training. Note: This course does not count for core physical education/wellness requirements.

Pre-Requisites: Grade of 'C' or higher in BIO 3411.

BIO 4410 Biological Science Research

A research course in which students will work as a team to complete research in an area of the biological sciences as set forth by the instructor. Students will learn how to critically read scientific papers and interpret data. All aspects of proposal writing will be explored during this course. The course will culminate with presentation of the students and groups research findings in both oral and written formats. Fulfills Experiential Learning requirement.

Pre-Requisites: Biology majors with senior standing or by permission of instructor. Course Fee: \$85

Business Administration

BADM 1303 Intro to Population Health

This course introduces students to the study of population health and what it means to live a long and healthy life. It includes examining the factors that can influence health and wellness as well as the various fields all connected to health. The course is interdisciplinary. It covers a broad range of issues including health communication, environmental health, infectious diseases, social health, and how to improve your community as well as your own life. This is an exciting eye-opening course that any student interested in his/her well-being or the well-being of others can take. Cross-listed with PUBH 1303.

Pre-Requisites: None

BADM 1310 Intro to Business and Entrepreneurship

This introductory course is designed to help students advance their knowledge of both business and entrepreneurship. This course helps students to develop their critical thinking skills in solving contemporary business issues. The course looks at various entrepreneurial ventures and business disciplines from a variety of perspectives to provide a foundation for business development. Students will be introduced to a variety of careers as well as practical and professional skills.

Pre-Requisites: None

BADM 2310 Global Business and Communication

This course introduces the modern business enterprise with an emphasis on the interdependence of the business functions in a global environment. Topics include the cross-border impacts of culture, communication, politics, and law on trade, investment, marketing, management, and accounting and financial systems.

Pre-Requisites: None

BADM 3311 Principles of Management

Course is a survey of management philosophy, theories, and practices. Topics include management functions of planning, decision making, organizing, staffing, communicating, motivating, leading, and controlling. This course will also consider organizational behavior, international management and the global economy. This course has a writing component.

Pre-Requisites: None

BADM 3314 Essentials of Global Public Health

Examines the main functions of public health; disease prevention and health promotion. Students will learn the history and philosophy of public health, its core values and functions across the globe and in society. Students will examine the factors that impact health and how productivity is influenced by health outcomes since prevention is more cost effective than cure. Students will learn about working in both clinical care settings as well as institutions that promote population health. Case studies will be used. Cross-listed with PUBH 3314.

Pre-Requisites: None

BADM 3315 Comparative Health Care Systems

Examines the healthcare delivery system of the United States, its fundamental characteristics and organization as well as differences in the healthcare systems of other countries. Students will learn about the various agencies involved in health and access to healthcare will be reviewed. Students will have a better understanding of the composition of health workers in the United States and other countries. Innovative technologies and best practices will be studied. Cross-listed with PUBH 3315.

Pre-Requisites: None

BADM 3321 Business Law

Background and role of law in business and society. Specific commercial law topics addressed include Uniform Commercial Code, business torts, property, contract sales, debit/creditor relations, and agency.

Pre-Requisites: None

BADM 3323 Globalization, Trade and Health Policy

Examines the increasing interdependence of the world with greater connectivity affecting the speed of access to information. Key focus will be on the dimensions of globalization including trade in food, pharmaceutical products, tobacco as well as healthcare personnel and the shift in patterns of disease. Case studies will be used. Cross-listed with PUBH 3323.

Pre-Requisites: None

BADM 3330 Project Management

This course emphasizes Project Management skills involved in work planning, control and evaluation to achieve objectives for both simple and complex projects. The course will give students hands-on experience project planning, participating and running their own project.

Pre-Requisites: BADM 3311

BADM 3335 Data Analytics

This course covers data management, exploratory data analysis and visualization, descriptive statistics, and inferential statistics. T-tests, ANOVA, Chi-Square tests, simple regression, multiple regression, interaction/moderation, confounding, and logistic regression are all covered at a pace that assumes some previous knowledge of statistics. All of the topics will be addressed through a student selected research question that can be answered using a large dataset. A statistical programming language (R, SAS, or SPSS depending on the instructor) will be used, along with Zotero and GitHub for document and code management.

Pre-Requisites: MTH 2301, or another introductory statistics course

BADM 3340 Human Resource Management

An introduction to human resource management. Topics include employment, placement and personnel planning, training and development, compensation and benefits, health, safety and security; employee and labor relations. This course has a writing component.

Pre-Requisites: None

BADM 3341 Training and Development

This course explores methods utilized to train and develop employees in ways that positively affect organizational outcomes and success.

Pre-Requisites: BADM 3340

BADM 3350 Principles of Marketing

Practices and market structure, marketing functions and strategies, institutions, pricing, demand creation, industrial and consumer, costs and marketing legislation. This course has a writing component.

Pre-Requisites: None

BADM 3351 Selling and Sales Management

Professional selling principles and practices for industrial and consumer goods. Includes identification and qualification of customers, developing and delivering high quality presentations, persuasive theories and techniques, ethics of selling, and pre/post sales services. Policy matters, product planning, distribution policies and pricing, sales promotion, organization and management of territories and the sales force, control of sales operation.

Pre-Requisites: None

BADM 3352 Integrated Mkt. Communications

This course studies all elements of promotion and integrated marketing communications. Students gain knowledge of the major promotion and communication tools organizations use, how promotion is planned, budgeted, and used in the marketing program, and how to analyze promotion alternatives as they relate to the organization's marketing objectives and market

segments served.

Pre-Requisites: None.

BADM 3353 Consumer Behavior

This course focuses on the analysis and interpretation of the behavior of individuals as buyers and consumers of goods and services. Students will learn to evaluate and interpret the psychological, economic, and socio-cultural factors and trends that influence purchase and consumption of goods and services.

Pre-Requisites: None.

BADM 3354 Entrepreneurship

The Entrepreneurship course introduces the tools, skills, and judgment needed for a long and meaningful life as an entrepreneur. The course considers evaluating opportunities, launching a business, growing the business, and finally harvesting the profits. Students will stand in the shoes of an entrepreneur and make tough decisions, squeezed by the demands of your customers on one side (customers) and the need to make and deliver your product cheaply enough (operations) on the other. The course will focus on businesses that, with vision, hard work and luck can be developed into substantial enterprises. This course will focus on entrepreneurs, on business plans and on businesses that are appropriate for sophisticated angel and/or professional (especially venture capital) investors.

Pre-Requisites: BADM 3360

BADM 3360 Finance

The course provides a working knowledge of the tools and analytical conventions used in managerial finance. The emphasis is on establishing an understanding of the basic elements of financial theory to be used in the application of analytical reasoning to finance problems. This class is designed for the general business student, but is a sufficiently rigorous introduction to this material that it is also suitable for students who are considering additional study in either Finance or Accounting.

Pre-Requisites: ACC 2301 (or an equivalent statistics class)

BADM 3361 Money, Banking, and Credit

The course will cover the role of financial markets in the economy; the determination of interest rates; the role of financial intermediaries and financial intermediation; the role of the central bank in monetary policy; and the macroeconomics of monetary policy and interest rates.

Pre-Requisites: BADM 3360

BADM 3371 Management Information Systems

Course provides students with a fundamental understanding of information technology in contemporary business environments and presents core MIS principles with which every business student should be familiar. Students will also study real cases that are associated with IS applications in order to understand the issues in IS disciplines and the changing role of the IS professional.

Pre-Requisites: None

BADM 3372 Digital and Social Media Marketing

Designed to give students a high-level strategic perspective of how digital media is used to achieve business objectives, as well as practical hands-on experience creating and managing digital marketing campaigns. All marketers are increasing their digital media spending -- creating demand for students entering the workforce with digital media skills. By the end of the course, students will be able to walk into any company with an online presence and improve their use of the internet

Pre-Requisites: BADM 3350

BADM 3375 Negotiations and Conflict Management

The Negotiations course introduces students to the theory and practice of negotiation specific to business. Negotiation is the art and science of securing agreement between two or more independent parties. The course focuses on understanding the behavior of individuals, groups, cultures, and organizations in the context of competitive situations. Students will develop analytical and interpersonal skills necessary for successful negotiations. Business relevant cases and situations will be used.

Pre-Requisites: None

BADM 3380 Production and Ops. Management

The course includes the strategic, tactical, and operational issues that arise in management of production and service operations; product and process design, facilities planning, quality management, materials management, operations planning and scheduling, and emerging technologies in production and service management.

Pre-Requisites: None

BADM 3398 Nat'l/International Travel

A travel course to immerse the student in real-world contexts where students can observe and analyze communication practices in various settings.

Pre-Requisites: Consent of Instructor. Course Fee: Varies by travel course.

BADM 4302 Global Public Health Practicum

Students will be engaged in practicums in organizations in the United States with a health focus (healthcare delivery or population health); or organizations that are regional or international in scope that promote global health. In the future opportunities for practicums will be created for practical experiences working in other countries and in select international organizations (public and private). Fulfills experiential learning requirement. Cross-listed with PUBH 4302.

Pre-Requisites: Junior or Senior level status and completion of lower-level BBA requirements.

BADM 4310 Business Internship

Students are expected to graduate in the calendar year that this course is completed. Provides students with job searching skills, on-the-job experience and training related to academic education and long-term goals. May be repeated once for credit as an elective, but only three credit hours will count toward any Business Management major. An upper-level course for business majors only; graded on a pass/no pass basis. Students must meet all of the internship requirements during the semester in which they are enrolled in the internship. Students may enroll in this course any time during the semester prior to the "last day to withdraw from a class with a W" as published in the

official academic calendar. Fulfills experiential learning requirement.

Pre-Requisites: BADM 3311

BADM 4310P Business PEP Internship

The Business Present Experience Internship course offers seasoned professionals, C-Suite professionals, and business owners who are advanced in their career an alternative course to the traditional internship course and model. Students approved for the course are presently working and are not a good fit for the traditional internship experience. Advanced-career working adults can apply for this option and complete it at their own pace over the semester while using their present job to satisfy both experiential learning credit and the degree internship requirement. The course involves a 360 evaluation process and reflection upon past and current career trajectory. Eligibility and academic approval required.

Pre-Requisites: Eligibility and academic approval.

BADM 4312 Strategic Management

This course provides student with advanced level learning and critical thinking skills in the areas of strategic planning, implementation and control. Integrated learning will take place using the various business disciplines, applying a general management point of view. An overview of historical thought in strategic management will provide a basis for students to think about and form their own theories and management styles. Students will apply their learning through case studies and class projects.

Pre-Requisites: BADM 3311

BADM 4319 Immigration Violence Disasters and Health

Issues that impact vulnerable populations in the United States and other countries including the socioeconomic, behavioral, biological, environmental and other factors that impact human health and contribute to health disparities. Immigration, the impact of violence, natural and man-made disasters, terrorism and the organizations that respond to these issues will be examined. Cross-listed with PUBH 4319.

Pre-Requisites: None

BADM 4321 Public Health Organizations, Ethics, and Law

Examines public health organizations that are local, national and international in focus, how they operate and the role they play in promoting health and preventing disease as well as those organizations not typically associated with health such as the United Nations, World Trade Organization, the Bill and Melinda Gates Foundation and Dell. Cross-listed as PUBH 4321.

Pre-Requisites: Junior or Senior level standing

BADM 4300 Marketing Capstone

This course is an integration of all marketing elements in a strategic marketing framework. The course will provide practical knowledge regarding marketing strategy from planning, formulating, and executing strategic marketing campaigns. The topics covered in this course include strategic marketing planning, marketing ethics, marketing research, competitive advantage, segmentation, branding, positioning, marketing mix (4 Ps), marketing implementation, and customer loyalty.

Pre-Requisites: BADM 3350

BADM 4331 Organizational Behavior and Development

Most organizations focus their efforts on improving two aspects of human behavior: (1) job performance—the degree to which individuals perform the behaviors needed for the organization to achieve its goals; and (2) organizational commitment—the degree to which employees remain loyal to the organization rather than seeking employment elsewhere. This course will guide you through a model that seeks to explain these two areas of organizational behavior, while interweaving and maintaining a fixed view on developing the organization as a whole.

Pre-Requisites: BADM 3340

BADM 4333 Market Research

This course will provide an introduction to market research as a business decision-making tool. Students will learn how market research can help them understand consumer attitudes and preferences to make business decisions and how to transform research findings into actionable business recommendations. Students will learn essential skills including: determining research design, techniques for conducting interviews, quantitative questionnaire design, sampling procedure and statistical projections, data analysis, and dashboard visualizations. Students will work with a real-world client on a research project including defining the business problem, develop a research plan, collect and analyze data and present findings and implications.

Pre-Requisites: BADM 3350

BADM 4341 Human Resource Mgmt Internship

Focuses on providing students with meaningful work experiences in Human Resource Management (HRM) similar to those which are normally found in organizations. Emphasis of the internship program is to provide interns an exposure to a wide variety of opportunities including as much ‘hands-on’ experience as possible. Students are expected to graduate in the calendar year that this course is completed. Incompletes are not allowed in this course. Students may enroll in this course any time during the semester prior to the “last day to withdraw from a class with a W” as published in the official academic calendar. The course may be repeated once for credit as an elective, but only three credit hours will count toward any Business Management major. Fulfills experiential learning requirement.

Pre-Requisites: BADM 3340

BADM 4351 Advertising Management

Through projects and texts, students will develop an understanding of the creation of effective advertising, media planning and budgeting, and advertising strategy as it relates to the overall marketing mix and strategic plan of the organization, with special emphasis on advanced copywriting and layout, for print and broadcast media. Cross listed with COM 4351

Pre-Requisites: BADM 3350

BADM 4352 Internship in Marketing

Provides students with job searching skills, on-the-job experience and training related to academic education and long-term goals. May be repeated once for credit as an elective, but only three credit hours will count toward any BBA concentration. An upper-level course for business majors only; graded on a pass/no pass basis. Students must meet all of the internship requirements during the semester in which they are enrolled in the internship. Students may enroll in this course any time during the semester prior to the “last day to withdraw from a class with a W” as published in the

official academic calendar. Fulfills experiential learning requirement.

Pre-Requisites: BADM 3350

BADM 4361 Investments

Topics covered include financial markets, securities trading, evaluation of the risk/return trade-off, efficient portfolio formation, fixed-income security valuation and interest-rate risk, and an introduction to derivative securities. The course develops the student's expertise in investment and portfolio management, including the ethical issues involved.

Pre-Requisites: BADM 3360 and MTH 2301 (or an equivalent statistics class)

BADM 4363 International Financial Management

The course covers international monetary systems, exchange rate determination, use of currency derivatives in hedging and risk management, currency swaps, modern direct investment, and international capital budgeting.

Pre-Requisites: BADM 3360

BADM 4364 Corporate Finance

Topics include the net present value and internal rate of return criteria for capital budgeting decisions; other criteria for such decisions, the cost of capital; capital budgeting under uncertainty; the lease-or-buy and make-or-buy decisions; and financing fixed assets; including theory of the debt to equity trade-off and dividend policy.

Pre-Requisites: BADM 3360

BADM 4367 Finance Internship

Students are expected to graduate in the calendar year that this course is completed. Provides students with job searching skills, on-the-job experience and training related to academic education and long-term goals. May be repeated once for credit as an elective, but only three credit hours will count toward any the Finance concentration. Graded on a pass/no pass basis. Students must meet all of the internship requirements during the semester in which they are enrolled in the internship. Students may enroll in this course any time during the semester prior to the "last day to withdraw from a class with a W" as published in the official academic calendar. Fulfills experiential learning requirement.

Pre-Requisites: BADM 3360

BADM 4369 Financial Modeling in Excel

This course is the capstone for the finance concentration. Students will learn to model both financial statements and portfolios in this class. This is an advanced spreadsheet engineering course designed for future finance professionals who will need to be able to apply the material that they have previously learned in their more theoretical finance courses to their employers' or clients' finances.

Pre-Requisites: BADM 3360

BADM 4380 Business and Community

Intended for students who are excelling in academic skills and professional skills, engaged, motivated and internally driven. Admittance is granted by recommendation from the faculty and student purpose essay. This course will focus on the role of ethics and social responsibility in

businesses as they serve the community in which they exist. Students will learn practical lessons from speakers and in working on research for the Ethics in Business Award. Classes will involve a mix discussion, guest speakers and experiential learning.

Pre-Requisites: Instructor approval required

BADM 4390 Special Topics in Business

This course provides students with advanced level learning and critical thinking skills in the areas of selected specific topics of business. Integrated learning will take place using the various business disciplines. Students will apply their learning through reading, experience, and class projects. Business students will receive credit toward their Business concentration as deemed appropriate by the COB faculty.

BADM 4398 Program Management and Health Evaluation

Examines health programs and the use of evidence to support the practice of health. Using theories and case studies, students will complete a critical analysis of the public health program of choice integrating lessons learned, best practices and the theories studied. This is a capstone course in which a research paper will be expected. Cross-listed with PUBH 4398.

Chemistry

CHE 1341 Chemistry I

Study of the laws and theories of chemistry, stoichiometry, atomic and molecular structure, chemical bonding, properties of solutions, kinetic-molecular theory, and periodicity of the elements
Pre-Requisites: Math Placement score of 2 or higher, or successful completion of MTH 0320 Intermediate Algebra

CHE 1141 Chemistry I Laboratory

Laboratory investigation of the laws and theories of chemistry, stoichiometry, atomic and molecular structure, chemical bonding, properties of solutions, kinetic-molecular theory, and periodicity of the elements.

Pre-Requisites: Enrollment in or completion of CHE 1341. Course Fee: \$85

CHE 1342 Chemistry II

A continuation of Chemistry I covering kinetics, equilibria, thermodynamics, oxidation-reduction, acids and bases, and an introduction to organic chemistry.

Pre-Requisites: CHE 1341 and MTH 1351 with a minimum grade of 'C' in both, or minimum grade of 'C' in CHE 1341 and Math Placement score of 3

CHE 1142 Chemistry II Laboratory

A continuation of General Chemistry I laboratory covering kinetics, equilibria, thermodynamics, acids and bases and an introduction to organic and biochemistry

Pre-Requisites: Enrollment in or completion of CHE 1342. Course Fee: \$85

CHE 1400 Introduction to Chemistry

Descriptive chemistry with an emphasis on principles and the importance of chemistry for modern life. This course is a prerequisite to CHE 1341 for students who have not had high school chemistry. This course may be used to meet the core natural science requirement, but cannot be used as a prerequisite for CHE 1342. Not open to those who have already earned credit for CHE 1341.

Pre-Requisites: Math Placement score of 2 or higher

CHE 1431 General Chemistry for Healthcare Professionals

This course is intended as a pre-requisite for entry into the nursing program. Fundamental principles of inorganic chemistry; metric measurements, matter and energy, atomic structure, chemical nomenclature, chemical bonding, chemical reactions, stoichiometry, gas laws, properties of liquids, solids, solutions, acids and bases with emphasis on their physiological importance and their application to nursing and other health-related professions. This course may meet the core laboratory natural science requirement. Students should be co-enrolled in the laboratory part of the course, CHE 1431L.

Pre-Requisites: Math Placement score of 2 or higher, or successful completion of MTH 0320. Course Fee

CHE 2401 Organic Chemistry I

Introduction to the basic concepts of organic chemistry and the synthesis and reactions of organic molecules. Students should be co-enrolled in the laboratory part of the course, CHE 2401L.

Pre-Requisites: CHE 1142 and 1342 with a minimum grade of 'C' in both. Course Fee (CHE 2401L): \$85

CHE 2403 Organic Chemistry II

A continuation of the study of basic concepts of organic chemistry with emphasis on aromatic compounds and spectroscopy. Aspects of biological molecules are considered. Students should be co-enrolled in the laboratory part of the course, CHE 2403L.

Pre-Requisites: CHE 2401 with a minimum grade of 'C'. Course Fee (CHE 2403L): \$75

CHE 3301 Inorganic Chemistry

The descriptive chemistry of transition metals including coordination complexes, organometallic catalysis, and bioinorganic chemistry, along with bond theory and symmetry.

Pre-Requisites: CHE 1142, 1342, and MTH 1351 with a minimum grade of 'C' in each course

CHE 3401 Quantitative Analytical Chemistry

Theory and practice of qualitative chemical analysis. Theory and practice of volumetric, gravimetric, pH, colorimetric and chromatographic quantitative chemical analyses. Students should be co-enrolled in the laboratory part of the course, CHE 3401L.

Pre-Requisites: CHE 1142 and 1342 (or 1402) and MTH 1351 (or Math Placement score of 3), with a minimum grade of 'C' in each course. Course Fee (CHE 3401L): \$75

CHE 3402 Environmental Chemistry

A study of the chemical principles and reactions that govern the behavior of both natural environmental systems and anthropogenic compounds important to the quality of the environment. Sampling methods, instrumentation and data analysis will be emphasized. Students should be co-enrolled in the laboratory part of the course, CHE 3402L. Cross-listed with ESC 3402/3402L.

Pre-Requisites: CHE 1142 and 1342 (or 1402) and MTH 1351 (or Math Placement score of 3), with a minimum grade of 'C' in each course. Course Fee (CHE 3402L): \$75

CHE 3404 Instrumental Chemical Analysis

Analysis of chemical compounds using instrumental techniques including: infrared and ultraviolet spectrophotometry, nuclear magnetic resonance, and gas chromatography-mass spectrometry.

Pre-Requisites: CHE 1142 and 1342 (or 1402), CHE 3401, and MTH 1351 or math placement at a higher level with a minimum grade of 'C' in both courses

CHE 3430 Biochemistry

An overview of the macromolecules and small molecules that are the key to all living systems.

Topics covered include protein structure and function, enzyme mechanisms, kinetics and regulation, membrane structure and function, bioenergetics, hormone action, intermediary metabolism, including pathways and regulation of carbohydrate, lipid, amino acid, and nucleotide biosynthesis and breakdown. Students should be co-enrolled in the laboratory part of the course, CHE 3430L. This course is cross-listed with BIO 3430/CHE 3430L.

Pre-Requisites: BIO 1403 with a grade of 'C' or higher, and credit or concurrent enrollment in CHE 2401. Course Fee (CHE 3430L): \$85

CHE 4301 Physical Chemistry I

A statistical mechanics approach to gas behavior, thermodynamics and kinetics. Course can be taken before or after CHE 4302 (Physical Chemistry II).

Pre-Requisites: PHY 1402 and MTH 2402 with a minimum grade of 'C' in both courses

CHE 4201 Physical Chemistry Lab

Laboratory exercises in physical chemistry covering electromagnetism, vibrational and rotational spectra, molecular interactions, and gas behavior.

Pre-Requisites: PHY 1402 and MTH 2402 with a minimum grade of 'C' in both courses. Course Fee: \$75

CHE 4302 Physical Chemistry II

A quantum mechanical approach to atomic structure, spectroscopy and surfaces. Course can be taken before or after CHE 4301 (Physical Chemistry I).

Pre-Requisites: PHY 1402 and MTH 2402 with a minimum grade of 'C' in both courses

Chinese - Mandarin

CHI 1401 Mandarin Chinese I

An introduction to Mandarin Chinese for beginners, providing practice in listening, speaking, reading, and writing.

Pre-Requisites: None

CHI 1402 Mandarin Chinese II

Continued introduction to Mandarin Chinese imparts further communication skills for daily use in these areas: listening, speaking, reading, and writing.

Pre-Requisites: CHI 1401

CHI 2311 Mandarin Chinese III

Continuation of Chinese II, helps students to move from the beginning to the intermediate level of the language. Students will continue to learn essential skills of listening, speaking, reading, and writing for daily communication.

Pre-Requisites: CHI 1402

CHI 2312 Mandarin Chinese IV

Intermediate course in Mandarin Chinese prepares students for advanced Chinese; it offers advanced communication skills in listening, speaking, reading, and writing.

Pre-Requisites: CHI 2311

Communication

COM 1300 Fundamentals of Communication

Designed to help students perceive and experience the multi-faceted presence of communication in life, and gain self-confidence and basic proficiency expressing themselves in different contexts using a variety of media.

Pre-Requisites: None

COM 2100 Communication Practicum I

Open to any student, this is a lower-level course to formally engage student in the practice of communication. Students will use practicum experience for creating featured building blocks for portfolio creation as part of the Communication Capstone course.

Pre-Requisites: None

COM 2301 Human Communication Theory

A careful and systematic discussion of communication theories and their application to life.

Pre-Requisites: None

COM 2303 Mass Media History and Theory

Survey of mass media theories, emphasizing the impact of printing, film making, and broadcasting in society. Research on mass media effects including an examination of emerging media technologies.

Pre-Requisites: None

COM 2308 Writing for the Media and Public Relations

The student will learn fundamentals of writing for different media outlets and publics and will practice writing artifacts such as news reports, editorials, press releases, scripts, advertising copy, public statements, social media promotions, and magazine feature articles.

Pre-Requisites: None

COM 2312 Focused Listening

An in-depth look at how communication technologies and other factors contribute to our distractions or ability to focus whether sitting in silence, engaging in self-reflection, or communicating with others. Analysis and practice of focused listening to reclaim attention, silence,

and authentic conversation.

Pre-Requisites: None

COM 2314 Communication Technology

A survey of communication technologies. The course includes an exploration of the factors surrounding the adoption of new technology. The course will also challenge the student to consider the sociological impact of technology and technological determinism.

Pre-Requisites: None

COM 2317 Cinema and Religion

A course designed to enable students to recognize mythic structures in contemporary film and compare and contrast them to the central themes of Christianity and the Lutheran Ethos, including original sin, mercy, grace and redemption. NOTE: Lengths of films vary, and it is important to examine each in its entirety. The student should be prepared to participate in a 45 minute discussion after the end of each film shown, regardless of length.

Pre-Requisites: None. Course Fee \$50

COM 2319 Digital & Media Literacy

In this course students will explore the current media landscape from a critical perspective, examine its effects on social institutions and interpersonal relationships, and evaluate the role of media literacy in forging a healthier communication climate. Students will learn to engage media critically, thereby becoming better informed citizens.

Pre-Requisites: None

COM 3304 Group Dynamics

Theory and practice in group communication: goal setting, problem solving, listening, feedback, and leadership. Cross-listed as PSY 3304.

Pre-Requisites: COM 1300.

COM 3308 Persuasive Communication

Theory and practice of personal and public persuasion with an emphasis on how to change attitudes, understand purchasing behavior, and increase influence.

Pre-Requisites: None

COM 3310 Public Relations

An introduction to the basics of public relations including best practices, case studies, and ethical concerns. It includes a study of the application of new media communication to the art of public relations.

Pre-Requisites: None

COM 3320 Media Law and Ethics

Development of and rationale for constitutional protections, legal regulations, and ethical responsibilities of the mass media in the United States

Pre-Requisites: None

COM 3325 Interpersonal Relationships

Investigation into the communication and psychology of family dynamics, friendships, and romantic partners. One goal of this course will be to understand our own relationships and seek to improve them. Cross listed with PSY 3325

Pre-Requisites: PSY 1311

COM 3331 Organizational Communication

A study of communication theories and their application for organizations. Students will develop leadership skills in identifying and resolving communication barriers that inhibit efficient organizational performance.

Pre-Requisites: None

COM 3335 Intercultural Communication

Course explores communicating from one culture to another and will include worldview, religion, values, language, nonverbal communication, context and other topics related to becoming a competent communicator in cross-cultural situations. The course will require the student to spend time in a culture different from their own.

Pre-Requisites: None

COM 3340 Visual Communication Design

Explore major theoretical and practical approaches to the creation and analysis of visual images. This course will help students develop their visual literacy skills by teaching them to critically evaluate and responsibly construct visual arguments. Students will hone their visual literacy skills by developing a basic understanding of the physical and cognitive processes of visual communication, the elements of visual language, and the principles of visual organization that can affect perception.

Pre-Requisites: None

COM 3350 Conflict Resolution

Systematic and critical understanding of communication theory and research focused on conflict across various contexts. Application of communication strategies as practical tools for the analysis, management, and resolution of conflict within a broad range of complex interactions.

Pre-Requisites: None

COM 3360 Topics in Communication

Examination of particular trends, contemporary challenges, developing contexts, and emerging technologies relevant to the study of communication and not already a central focus of the existing courses in the Communication major. While the topics will vary, each will provide a focused compliment (depth) to other courses that provide a more general perspective (breadth). This course may be repeated for credit when topic is different.

Pre-Requisites: None

COM 3370 Health Communication

A fascinating study of communication in the field of health; focusing on the origins and theories of health communication, and exploration of the complexities inherent in both verbal and nonverbal communication, and health messaging. Additional focus will be on several contemporary areas

within the field of health communication research and practice. Cross-listed as PUBH 3370.

Pre-Requisites: None

COM 3398 National/International Studies

A travel course to immerse the student in real-world contexts where students can observe and analyze communication practices in various settings.

Pre-Requisites: Consent of instructor. Course Fee: Varies by travel course.

COM 4301 Digital Journalism and New Media Communication

In an effort to remain relevant, news organizations have had to embrace emerging technologies and social media as a means of delivering content and engaging audiences. This course studies the practice of digital journalism through visual storytelling techniques. Students not only learn the basics of digital audio, video, and image production and editing but also explore topics such as how to engage online audiences, how to write and optimize content for search engines, and how to measure performance across various platforms.

Pre-Requisites: None

COM 4310 Communication Internship

Supervised experience working with communication professionals in production, public relations, or other communication-related fields. Fulfills Experiential Learning requirement.

Pre-Requisites: Junior or Senior Level Standing

COM 4340 Visual Production & Design

Introduces students to a range of creative software for graphic design, visual layout, and audio and video editing. In this course students will study the creative, technical and production elements required to produce visuals for a variety of print and digital media. Students will learn to create visual communication materials and marketing collateral including flyers, new packages, podcasts and ads.

Pre-Requisites: None

COM 4350 Communication Capstone

This course assists students in transitioning from their Communication major to a being a professional in the communication field, and is required of all graduating Communication majors. Students will complete on-campus projects in the three concentrations offered alongside the Communication major: interpersonal communication, public relations and advertising, and visual communication. Additionally, students will utilize the knowledge and skills learned in other courses to build their network, working with a professional mentor, and explore job opportunities.

Pre-Requisites: Senior level/standing (90+ completed hours).

COM 4351 Advertising Management

Through projects and texts, students will develop an understanding of the creation of effective advertising, media planning and budgeting, and advertising strategy as it relates to the overall marketing mix and strategic plan of the organization, with special emphasis on advanced copywriting and layout, for print and broadcast media. Cross listed with BADM 4351.

Pre-Requisites: BADM 3313, BADM 3350

Computer Science

CIS 1300 Technology of the Digital Age

This course is an introduction to digital computing, including study of how computers organize, transmit, and process information. Students will consider the ethical, cultural, and legal issues surrounding technology, as well as concepts and tools underlying the web and computer programs. This course satisfies the Technology component of the CTX Common Experience.

CSC 1401 Introduction to Computer Science I

The course introduces a broad overview of computer sciences topics: data storage, computer architecture, networking programming concepts, algorithms, and security. Translate problems into algorithms and implement using Python with basic Python programming skills pertaining to variables, data types input/output, control flow, sequences and functions.

Pre-Requisites: Eligible for Lower College Entry Level Math. Course Fee: \$75

CSC 1402 Introduction to Computer Science II

In this course program design, write, test and debug using Python. Program design includes complex data structure like lists, sets, dictionaries, and libraries. Write scripts for productivity and advanced structured programs using control statements, functions, modules, file I/O, exceptions, and string data types. Review and implement Python programming using object-oriented programming.

Pre-Requisites: CSC 1401 or consent of instructor. Course Fee: \$75

CSC 1410 Introduction to Geographic Information Systems

Introduction to geographic information systems (GIS) and global positioning systems (GPS) for use in data analyses in the sciences and social sciences. Units on basic GIS and cartographic design, internet mapping, cell phone applications, and GPS data collection. This course satisfies the Common Experience Technology requirement, however it does not fulfill the Common Experience Natural Science with Lab requirements. Cross-listed with ESC 1410.

Pre-Requisites: None

CSC 2305 Discrete Structures

This course is an analysis of the basic structures that form the foundations of mathematics and computer science including statements, sets and subsets, number sets, sequences, relations, orderings, partitions, functions, graphs, and trees. Structures defined through induction and recursion, including introduction to the solutions of recurrence relations are addressed. Emphasis will be on formal logical and combinatorial proof. Cross-listed with MTH 2305 Discrete Structures.

Pre-Requisites: CSC 1401 with a grade of "C" or higher. Also MTH 1352 with a grade of 'C' or higher or math placement at Upper College Entry Level

CSC 2306 Business of Software Development

This course explores the business context and financial considerations of software development and infrastructure decisions for a software company. Additional topics include an overview of different business models for SaaS, Mobile, and On-Premise solutions as well as partnership models to develop and sell software products.

Pre-Requisites: None

CSC 2403 Data Structures & Algorithm Analysis

A course in data structures and algorithms. Topics include linked lists, stacks, queues, priority queues, binary trees, search algorithms, sort algorithms, graph algorithms, Recursion, and algorithm efficiency analysis.

Pre-Requisites: Must have completed or be co-enrolled in CSC 1402. Course Fee: \$75

CSC 3303 Computer Architecture

An introduction to the architectural features of single-processor (Von Neumann or SISD) computers.

Pre-Requisites: None. Course Fee: \$75

CSC 3304 Networking: Theory and Applications

Understanding networks topologies, protocols, hardware and software. A hands-on approach to security, protection and management. Distributed applications and migrating different platforms are also discussed.

Pre-Requisites: CSC 3302 and CSC 3303 or consent of instructor.

CSC 3305 Database Design and Analysis

Principles for the design and management of database systems. Data and storage models, relational and hierarchical data models will be studied. Other topics include: normalization forms, canonical schema representations, data integrity and file security techniques.

Pre-Requisites: CSC 1402 or consent of instructor. CSC 2305 is recommended.

CSC 3306 Human Computer Interaction

This course will introduce the human factors area of computer science examining success (and failures) and current work in the subject area.

Pre-Requisites: CSC 1402 or consent of instructor

CSC 3307 Artificial Intelligence

An introduction to the basic concepts and techniques of artificial intelligence using the programming language LISP. Topics covered include natural languages, vision systems, search strategies and control, with an emphasis on representation.

Pre-Requisites: CSC 1401 and CSC 2403 or consent of instructor

CSC 3308 Computer Graphics

An introduction to the generation and manipulation of graphical images on computer displays. Topics include representation of curves and surfaces, 2D and 3D transformations, hidden edge and surface elimination, and shading.

Pre-Requisites: CSC 1402, MTH 2402, and MTH 3311 or consent of instructor.

CSC 3309 Numerical Analysis

Algorithms of numerical analysis are covered. Topics include floating point arithmetic, approximation, numerical integration and differentiation, solution of nonlinear equations, and solution of ordinary differential equations. Programming assignments will give experience in applying selected algorithms.

Pre-Requisites: CSC 1402 and MTH 2402 or consent of the instructor. Cross-listed with MTH 3309.

CSC 3310 Topics in Computer Science

Special topics in computer science that are new or unique that are not covered in existing courses. Possible topics include: computer design, Java programming, parallel and distributed computing. May be repeated for credit when topics differ.

Pre-Requisites: Adjusted according to topic.

CSC 3311 Programming Language Concepts

A comparative study of programming languages covering their history, development, and design criteria; formal definition of syntax and semantics; concepts and constructs; similarities and differences between languages; major language paradigms to include examination of object-oriented, functional, and concurrent languages; exception handling, modularization, scoping, etc. Students program in at least one language they have never used before.

Pre-Requisites: CSC 2403. Course Fee: \$75

CSC 3312 Introduction to Data Science

This course provides an introduction to Data Science and Data Analytics using Python programming language and supporting libraries to integrate aspects of computer science with a variety of data preparation and statistical analysis techniques. Perform, interpret and evaluate analytic inquiries to address explorative or hypothetical outcomes. Specific techniques involve tests of inter-variable association, correlation, regression, and clustering.

Pre-Requisites: CSC 1401 and CSC 1402 and MTH 2301 or BADM 2301, or other introductory statistics course.

CSC 3315 Systems

This course provides a foundational understanding of core software systems and exposure to the utilization of LINUX command line through a cloud-based server. In particular, topics include operating systems, networking and communications, parallel and distributed computing, and systems fundamentals.

Pre-Requisites: CSC 2305 and CSC 2403

CSC 3317 App Development

The intent of the course is to provide a rotating course that would teach a specific computer language, providing students with exposure to additional programming languages. The specific language would vary periodically. Possible projects may be mobile development (iOS or Android), Java, or Java Script.

Pre-Requisites: CSC 2403 and CSC 3311, or consent of the instructor.

CSC 3319 Cryptology

Applications of abstract algebraic and number theoretic concepts to the science of secure cryptography. Topics include historical ciphers, public-key cryptography, signed messages, secure protocols, and cryptanalysis, especially as these deal with electronic communications. Cross-listed as MTH 3319

Pre-Requisites: CSC/MTH 2305 and one of: CSC 1401, MTH 3313, or MTH 3315

CSC 3320 Theory of Computation

This course introduces the theory of computability, including important results from study of automata and formal languages. The course begins with the study of automata and their relationship to regular, context free and context sensitive languages. Notions of decidability and undecidability are discussed and this is related to complexity analysis.

Pre-Requisites: CSC 2403 or consent of instructor

CSC 3330 Information Security

This course provides an overview of information security and assurance, including technical, procedural, and policy considerations. In particular, topics include: threats, vulnerabilities and countermeasures; authentication and authorization; modern cryptography; protection against malicious code and other attacks; security for networks; secure software issues; privacy; and emerging information security challenges.

Pre-Requisites: CSC 2305 and CSC 2403.

CSC 3331 Cloud Computing & Open Source Software

This course provides an understanding of cloud computing principles and infrastructure components to inform architecture and engineering decisions. Additionally, this course explores various Open Source software and frameworks and approaches to use and combine them for new solutions. CTX's Speaking Center workshops (e.g., impromptu speaking and presentations, team dynamics workshops) and coaching will be integrated into the course.

Pre-Requisites: CSC 2305 and CSC 2403

CSC 3410 Geospatial Technologies

Introduction to geographic information systems (GIS) and global positioning systems (GPS) for use in environmental analyses and mapping. Units on cartographic design; internet mapping; cell phone applications and add-ons; GPS and drone navigation and data collection. Laboratory will focus on GIS applications. Cross listed with ESC 3410.

Pre-Requisites: CIS 1300 or 1401

CSC 4301 Senior Design/Independent Study

A working study/project led by an instructor. Projects consist of design and development of computer science related hardware or software systems for local businesses or any other commercial organization, but within the capacity of a senior student to complete within a term.

Pre-Requisites: Senior level computer science student or consent of instructor.

CSC 4310 Computer Science Internship

Students will participate in an on-the-job computer science work experience under the direct supervision of professionals in a corporation or government agency. A senior level course for computer science majors only. Graded on a pass/no pass basis. Fulfills Experiential Learning requirement.

Pre-Requisites: Junior or senior standing

CSC 4311 Experiential Learning Capstone I

This is the first of a two-course series. This series is designed to provide students “real world” experience with the Software Development Life Cycle (SDLC) by developing a project for a local

technology organization. Projects may be a R&D, automation, or value-add initiative for the partner organization. During this series students will apply both the technical and communication skills that have been developed while pursuing the interdisciplinary Computer Science major. This course provides students with the opportunity to gain the desired experience with the additional guidance and support from a faculty member overseeing the project development and delivery.

Pre-Requisites: CSC 1401, CSC 1402, CSC 2403, CSC 2305, CSC 3303, CSC 3311, CSC 3330 and senior status as a computer science major

CSC 4312 Experiential Learning Capstone II

This is the second of a two-course series. In this course, students continue the project started in CSC 4311 with a focus on the design and implementation of the project. This series is designed to provide students “real world” experience with the Software Development Life Cycle (SDLC) by developing a project for a local technology organization. Projects may be a R&D, automation, or value-add initiative for the partner organization. During this series students will apply both the technical and communication skills that have been developed while pursuing the interdisciplinary Computer Science major. This course provides students with the opportunity to gain the desired experience with the additional guidance and support from a faculty member overseeing the project development and delivery.

Pre-Requisites: CSC 4311

Criminal Justice

CRIJ 1301 Introduction to Criminal Justice

This course is a general overview of the criminal justice system including a description of the major agencies: police, prosecution, courts, and corrections, and an analysis of their interdependence in the criminal justice process. This course introduces the core working philosophies of the criminal justice system from the crime control and due process models of justice and an understanding of the agencies that follow those methodologies.

Pre-Requisites: None

CRIJ 2313 Corrections, Probation, & Parole

Provides an overview of the major facets of the American correction system, a historical look at our penal system to the innovations of Parole and Probation as well as other community based corrections systems and their overall impact on the criminal justice system. The success or failures of rehabilitation efforts and other programs, juvenile probation and juvenile boot camps will be discussed.

Pre-Requisites: CRIJ 1301

CRIJ 2328 Policing Systems and Practices

An extensive overview of the policing systems used in America. Looks at our criminal justice system from its roots in the British system, the Code of Hammurabi, Mosaic Laws, London Metropolitan Police Department and Bow Street Runners as precedents to our modern system of criminal justice agencies which emerged in New York, Boston, and Philadelphia. Examines different models or styles of policing, from the watchman, legalistic, and service styles and examine the recent innovations such as Community Policing and Intelligence Led Policing and their

relevance in today's policing agencies.

Pre-Requisites: CRIJ 1301

CRIJ 3300 Faith and Justice

Explores the interaction of our country's retributive justice system with our faith's call for justice, including examination of justice themes as applied to economic, immigration, trafficking and slavery, peacemaking, social, restorative, environmental, prison ministry, civil and voting rights, and related justice efforts.

Pre-Requisites: CRIJ 1301

CRIJ 3301 The Faithful Lawyer

Explores the conflict among ethical, moral, and faithful conduct for attorneys licensed by the state, the outcomes expected by public and private clients, the vocational stress produced by professional demands and boundaries, and our faith's call to do justice, to love mercy, and to walk humbly with our God.

Pre-Requisites: CRIJ 1301

CRIJ 3302 Criminal Law

Designed to provide a basic concept of criminal law and to provide legal ground work for those who seek to enter the criminal justice system. This course will focus on the impact of statutes and case law on criminal justice system practitioners; included are the 4th, 5th, 6th, 8th and 14th Amendments as they affect the accused, the convicted, and the employees working in the criminal justice system as well as issues of arrest, search and seizure, admittance of evidence and the rights of the accused. Serves as a legal update of current changes in the law.

Pre-Requisites: CRIJ 1301

CRIJ 3304 Criminal Investigations

examination of criminal investigation fundamentals including the establishment of a crime scene perimeter, unified command, and various methods of crime scene searches, collection and preservation of evidence, interviews, interrogation, case preparation, and the familiarization with specific instrumentation in crime detection and evidence selection for evidentiary value. This course will also introduce areas of administrative law and its impact on the function of bureaucracies and public agencies.

Pre-Requisites: CRIJ 1301

CRIJ 3305 Forensic Science and Criminalistics

Explores forensic science from the biological, chemical, and criminalistics perspective, including application from the crime scene to the court process; uses laboratory methods of instruction; examines evidence, court procedures, legal and ethical issues, and the role of forensic science in the field of criminal justice; and distinguishes appropriate techniques based on crime typology.

Pre-Requisites: CRIJ 1301

CRIJ 3306 Management in Law Enforcement

A study of management functions in a modern criminal justice organization, the internal and external environmental factors affecting organizational efficiency, and the application of quantitative and behavioral science. The function of the leader and principles of management are

viewed from an integrative perspective, including line and staff interactions and relationships. Theories of management, authority and responsibility, issues of centralization and decentralization, planning, organizing, staffing, directing and controlling will also be studied in the course.

Pre-Requisites: CRIJ 1301

CRIJ 3309 Gangs & Organized Crime

Examines both gangs and organized criminal groups. Traces the origins and historical development of the activities known as "organized crime". Focuses on American gangs, both youthful street gangs and militaristic prison gangs with strict hierarchy. Topics include the history of gangs, gang and gang member characteristics, gang life, and strategies of gang control. The link between youth street gangs, prison gangs, and other deviant collectivities will be explored.

Pre-Requisites: CRIJ 1301

CRIJ 3310 Juveniles in Criminal Justice

An in-depth study of the juvenile justice system. Topics covered are the development of delinquent behavior, victimology, initial handling and proper referrals, preventive police techniques, special police problems with juveniles, juvenile law, and related juvenile justice agencies. Plea bargains, juvenile probation, restorative vs. rehabilitative models and other best practices in juvenile justice will also be discussed.

Pre-Requisites: CRIJ 1301

CRIJ 3311 Criminology

Explores issues such as crime causation and the involvement of the criminal justice and corrections systems in these issues. Provides an analysis of the major criminological theories from the predominant "schools" of criminological thought; including the classical theories and rational choice; positivism and trait theories, psychoanalytic theories, social structure, social process, and social bonds theories. Particular focus upon the evolution of the theories from the classical and positivism schools of thought to the modern choice and trait theories, as well as the evolution of the sociological theories. Cross-listed with SOC 3311.

Pre-Requisites: CRIJ 1301

CRIJ 3312 Criminal Profiling

Explore the interwoven biological, psychological and social antecedents and correlates of criminal behavior. Psychological issues and their relation to criminal and anti-social behavior will be studied. An overview of profiling techniques; provides a definition of the modus operandi and signature aspects of serial crimes with a focus on serial rape, arson, and murder investigations and the tactics and techniques of using methods of both inductive and deductive reasoning to solve cases which pose the greatest threat to both law enforcement and the public.

Pre-Requisites: CRIJ 1301

CRIJ 3313 White Collar Crime

Explores domestic and international white collar crime, agencies tasked with investigating and prosecuting white collar crime, applicable criminal laws, underlying sociological and criminological theories, the criminals who commit such crimes, and victim impact.

Pre-Requisites: CRIJ 1301

CRIJ 3314 Ethics in Criminal Justice

Presents ethical issues that arise in the three major areas of criminal justice: police, courts, and corrections as case studies with discussion of their application. General philosophical theories of ethics from both historical as well as biblical accounts will be discussed and an elaboration provided about the codes of ethics that operate to control the institutional and personal behavior of police, courts and correctional systems.

Pre-Requisites: CRIJ 1301

CRIJ 3316 Victimology and Victim Rights

This course has the dual purpose of looking at the impact of crime upon victims and on our legal system, and conducts a brief overview of the crime victim role, criminal-victim relationships (either passive or active), and societal reaction to victimization, including crisis-intervention centers, court related victim/witness services, restitution and compensation.

Pre-Requisites: CRIJ 1301

CRIJ 3320 Homeland Security

Designed to introduce the student to the scope of issues facing the American public, the private sector and law enforcement on securing the country against threats posed by domestic and international terrorist groups, students will be given an overview of different terrorist and extremist groups to understand their goals, objectives and modus operandi. Threats to American interests abroad will be analyzed. Emphasis will be given to prevention, preparedness, and response. The roles of local, state and federal agencies in homeland security and critical infrastructure and key resource (CIKR) protection are examined.

Pre-Requisites: CRIJ 1301

CRIJ 3322 Roots of Terrorism

Understanding terrorism as a political crime. Focus is on the historical aspect of terrorism and how the use of terrorism as a tool of the weak has evolved from its use by the Jews in Roman times, by radical ancient Muslims, and then to its current contextual use by the French, Russian, Irish, and Basque movements and finally the modern radical Islamic terrorist groups. Various methods of attack from ancient poisons to modern bombing techniques culminating with the aircraft used during the attacks of 9/11 will be compared and contrasted to symmetrical and other asymmetrical forms of combat.

Pre-Requisites: CRIJ 1301

CRIJ 3330 Sociology and Psychology of Terrorism

This course helps the student in understanding terrorism as a political crime. The focus includes an examination of the sociological and psychological aspects of terrorist behavior; it includes portions on the different tactics of terrorism recruitment and attacks as well as the social psychology and religious aspects of terrorist group recruiting and formation to give the student a well-rounded understanding of the use of terrorism as a tool or tactic.

Pre-Requisites: CRIJ 1301

CRIJ 3335 – Social Science Methods

This course focuses on the use of quantitative and qualitative research methodology that is most commonly utilized by social science practitioners. It will emphasize the use of techniques and

ethical constructs that are typically employed by those working in social science fields. Cross-listed with POLS 3335.

Pre-Requisites: CRIJ 1301.

CRIJ 3377 – Gender & Crime

Gender disparities in contemporary patterns of crime, victimization, and incarceration will be explored. Focus will be on key concepts, major theories, and empirical research studies around gender and crime.

Pre-Requisites: CRIJ 1301

CRIJ 3388 – Race and Punishment

The social construct of race has played a central part in the inception and dramatic expansion of the U.S. criminal justice system over the past 50 years. This course will explore the causes and consequences of this expansion of the carceral state. The course will examine how race shapes, and is shaped by the carceral state by investigating how racialized social systems create inequalities in the delivery of punishment historically.

Pre-Requisites: CRIJ 1301

CRIJ 4305 Crime Mapping & Intelligence

An analysis of intelligence techniques and serves as a broad overview of military and crime analysis techniques and methodologies. The fundamental (steps of the analytic process) and philosophies beginning with traditional Military Intelligence and the movement that has led to Intelligence Led Policing will be discussed. Uses of analysts and systems to assist in investigations as they examine crime patterns and resolve community crime problems will be discussed. Analytical techniques including link diagrams, telephone tolls, and visual investigations will be discovered along with a theoretical and practical introduction to the benefits of crime mapping and the spatial analysis of crime.

Pre-Requisites: CRIJ 1301

CRIJ 4350 Criminal Justice Capstone

Examines the emerging trends in policing, from Homeland Security and Intelligence Led Policing to Crisis Intervention and Community Policing, and balances the theoretical goals of the police with their realistic expectations. Culminates in the development and production of a senior-level research paper grounded in relevant criminal justice literature regarding one of those topics. Emphasis is placed on the integration of knowledge acquired in previous courses and its practical application to problem sets provided throughout the class as projects.

Pre-Requisites: CRIJ 1301

Curriculum & Instruction (Ed.D.)

CAI 6320 Curriculum Theory

Examines major curriculum philosophies that have influenced educators within the last century. Students will analyze four educational visions (Scholar Academic, Social Efficiency, Learner Centered and Social Reconstruction). Students will reflect on their personal educational philosophies.

Pre-Requisites: None

CAI 6321 Strategies for Professional Development

Designed to engage students in the examination of current research and trends in professional development for campus and district instructional staff. Students will have the opportunity to learn about development, implementation and evaluation of campus and district-level professional development and will explore adult learning strategies and motivation.

Pre-Requisites: None

CAI 6322 Curriculum Design

Examines the impact of 21st Century Standards on the development, implementation and evaluation of state and local curricula.

Pre-Requisites: CAI 6320

CAI 6323 Research IV - Proposal

Focuses upon preparation of the dissertation proposal which will include selection of topic, development of problem statement and research hypotheses/questions, initial review of literature, design of study, and significance and limitations of study.

Pre-Requisites: None

CAI 6324 Assessment of Student Learning

Provides students with the tools to develop, maintain, and evaluate an effective student learning assessment process. Exploration of the assessment process will include: how to write appropriate learning objectives, the utilization of learning goals, formative and summative assessment, the differentiation of testing formats and what they really assess, the utilization of rubrics for improved instruction and feedback, and an understanding of the values of writing ethical assessments to meet the needs of all students.

Pre-Requisites: None

CAI 6325 Contemporary Issues

Explores the issues in curriculum and instruction which are current as well as those that continue as ongoing issues in education. Topics such as teacher accountability, a centralized curriculum, equity and access, high-stakes testing, and culturally responsive teaching are among the topics to be explored. This will be an evolving course driven by the issues that affect educators.

Pre-Requisites: None

CAI 6351 Program Evaluation

Examines different theoretical models of evaluation and will evaluate an educational program by constructing and administering instruments, analyzing the data gathered, determining the worth of the program, writing an evaluation report, and presenting the report to the personnel of the program evaluated, including presentation for the class.

Pre-Requisites: None

CAI 6352 Supervision & Leadership

Examines research related to the effective supervision of curriculum and instruction at the school, district, and system levels

Pre-Requisites: None

CAI 6335 Practicum I

The first of two semesters of fieldwork of the Ed.D. Curriculum & Instruction program, wherein students will spend time with one or more mentors in a campus or central office setting and record hours in each of the applicable program objectives.

Pre-Requisites: None

CAI 6336 Practicum II

The second of two semesters of fieldwork of the Ed.D. Curriculum & Instruction program, wherein students will spend time with one or more mentors in a campus or central office setting and record hours in each of the applicable program objectives.

Pre-Requisites: None

Early Childhood Education

ECE 3320 Early Childhood Education Curriculum Methods and Materials

This course will examine organization, materials, curriculum, and methods in preschool, kindergarten, and primary education. Techniques in working with primary age students will be emphasized. Therefore, course meetings and learning experiences are interactive and participatory. Fieldwork at a local school in an early childhood setting is required as part of this course.

Pre-Requisites: Admission to the Teacher Ed Program

Economics

ECO 2301 Introduction to Macroeconomics

Macroeconomics is the social science that studies the way societies, in the aggregate, allocate scarce resources to unlimited wants. Topics of the course include introductions to: supply and demand, Gross Domestic Product, inflation, recession, unemployment, aggregate private investment, government fiscal policy, monetary policy, international trade, and the effects that each of these have on the nation's economy in the classical, Keynesian, and monetarist frameworks.

Pre-Requisites: None

ECO 2302 Introduction to Microeconomics

Microeconomics is the social science that studies the ways individual economic agents allocate scarce resources to unlimited wants. Topics of the course include introductions to: supply and demand, elasticity of supply and demand, consumer behavior, firm behavior, competition, monopoly, oligopoly, and monopolistic competition, resource markets, market failures, antitrust policy, and issues of economic equity.

Pre-Requisites: None

Education

EDU 1201 Intro to Education

An introduction to the roles and responsibilities of the teacher, the characteristics of America's schools and curriculum, and selected issues facing today's teachers. Observation/activities will focus on the child as learner, teaching strategies, management procedures, classroom climate, and roles of the teacher. Fieldwork required. Required of all education major. Fulfills Experiential Learning requirement. Requires time log and reflections to be submitted when applying for admission into the Teacher Education Program

Pre-Requisites: None. Course Fee: \$55

EDU 2304 Children's Literature

A survey of the evolution of children's literature, and the exploration, analysis, and evaluation of significant literature for children's needs, interests, and capabilities. Emphasis is given to the study of the various genres of children's literature and styles of illustration. Suggestions are shared for elementary level storytelling, oral reading, and literacy projects. Extensive documented reading of children's books is required.

Pre-Requisites: None

EDU 2310 Intro to Exceptional Learners

This course focuses on the foundation of special education. Students will be introduced to basic theories and concepts related to identification and classification of exceptional learners, legislation and litigation in special education, best practices for classroom instruction for exceptional learners, and factors that promote effective consultation and collaboration with families, educators, and other professionals. 15 hours of fieldwork required.

Pre-Requisites: Grade of 'C' or higher in EDU 2201.

EDU 2320 Teaching Culturally & Linguistically Diverse Students

This course explores best practices in teaching culturally and linguistically diverse students. It is designed to build pre-service teachers' understanding of the influences of culture and home language(s) on language development and prepare them to assess and address the linguistic strengths and needs of students. This course is required of all Education students.

Pre-Requisites: None

EDU 2323 Educational Technology

This class is designed to familiarize students with the Technology Applications Standards and Competencies for Texas teachers and help prepare them to effectively use technology in planning and delivering instruction. Required of all education majors. Fulfills Technology requirement for teacher education students.

Pre-Requisites: Admission to the Teacher Education Program

EDU 2343 Educational Psychology

Educational Psychology is designed to introduce psychological principles, theories, and methodologies to issues of teaching and learning in schools. Topics include learning theory, learner characteristics, intelligence, creativity, motivation, measurement and evaluation, and models of teaching for all learners. Examination of cognitive, social, moral development of students as they

interact in the learning process also takes place. This course is required of all education students.
Pre-Requisites: PSY 1311 Introduction to Psychology

EDU 3261 Vocation of the Christian Educator

The topics of this course center on the systemic development of the Lutheran tradition of education in America. Emphasis will be placed on the present status of The Lutheran Church—Missouri Synod system of formal education as it has grown into the world's second largest non-public system of education. This course also emphasizes the tasks and function of the Christian educator in the role of commissioned minister status. Required of students seeking a Lutheran Teacher Diploma.
Pre-Requisites: None

EDU 3311 Teaching Strategies & Assessment

Instructional techniques and strategies that emphasize practical application of the teaching/learning process to include writing of instructional objectives and lesson plans, delivery strategies, and grouping practices based on learning theory and learning styles as well as multiple intelligences. Includes formal and informal assessment, measurement and evaluation of curriculum, teaching strategies and student learning in the elementary classroom with an emphasis on the use of technology.

Pre-Requisites: Admission to the College of Education

EDU 3331 Teaching Physical Education

Students will discover effective methods and techniques for teaching physical education while integrating the dimensions of wellness for healthy living. Major components of the course include writing instructional objectives and lesson plans, applying principles of organization and class management, and incorporating delivery strategies unique to physical education. Satisfies the Wellness requirement for the Common Experience. Cross-listed with KIN 3333.

Pre-Requisites: Grade of 'C' or higher in KIN 2301 or KIN 2302, or Admission to the Teacher Education Program.

EDU 3333 Teaching Religion

This course is designed to prepare students for the teaching ministry. Emphasis will be the concepts, content, materials, and strategies necessary in teaching religion in the elementary, middle, secondary, and special education classrooms. Integration of the Christian faith into all aspects of parish and school ministry will be covered. Fieldwork in Lutheran schools affiliated with the Lutheran Church-Missouri Synod is required for all students seeking a Lutheran Teacher Diploma. Fieldwork in Christian schools is required for all students seeking a Christian Teacher Diploma. Fulfills Experiential Learning requirement.

Pre-Requisites: Admission to the Teacher Education Program

EDU 3340 Societal Relationships & Classroom Management

This course will explore the vital and necessary interrelationships between the three elements present in the overall education of students or learners: school, home, and community. This course will also explore methods of effective classroom management strategies. This course is required of all education students.

Pre-Requisites: SPED 3301

EDU 4101 Teacher Education Seminar

This course prepares teacher education students to meet the qualifications to enter their second fieldwork practicum. Students will prepare for and meet standards on their TexES pedagogy and content exams and complete all Texas teacher trainings required to be recommended for certification. Graded as Credit/No-Credit.

Pre-Requisites: Admission to the Teacher Education Program (2).

EDU 4601 Teacher Residency

Teacher candidates will develop their teaching skills under the mentorship of a highly qualified teacher with the support of a university supervisor in a yearlong co-teaching placement using a gradual release model. This course is taken in conjunction with the second practicum and repeated with clinical teaching. Graded as Credit/No-Credit.

Pre-Requisites: Students must apply for residency and be approved by the program coordinator. Course Fee: \$600

EDU 4300 Secondary Content Methods

Application of classroom management and instructional strategies specific to the individual content area. In addition to academic study in their content area, students will observe master teachers, develop, deliver, and reflect on lesson plans, build professional relationships, and collaborate with their cooperating teachers in preparation for clinical teaching. Fieldwork required.

Pre-Requisites: Benchmark 3 (Methods Checkpoint) or Program Director approval.

EDU 4301 Urban Immersion Seminar

This two-week interactive immersion seminar is designed to expose students to diverse classroom settings in another city. Students will visit and lead in the classroom, arrange and participate in city excursions, share devotions, and reflect on their experiences. Students will engage in approximately 40 hours of fieldwork experiences observing classes and will complete reflections, participate in discussions and complete assignments after the observations. Students who successfully complete the Urban Immersion Seminar may apply up to 25 of their field experience hours toward the required hours in one of their subsequent practicum classes: RDG 3326 or 4327 (Interdisciplinary Studies majors) or RDG 3342 or EDU 4300 (Education Content Curriculum majors). Graded as Credit/No-Credit.

Pre-Requisites: Benchmark 3 (Methods Checkpoint). Course Fee: \$700.

EDU 4305 Mathematical Methods-Elementary

Methods and strategies of teaching: logic, sets, relations, functions, operations, numeration systems, number theory, rational numbers, real numbers, informal geometry, measurement, probability, and statistics. Technology used to support math curriculum is explored. Fieldwork required. Fulfills Experiential Learning requirement.

Pre-Requisites: Admission to the Teacher Education Program. Co-requisite courses: EDU 4307 and RDG 4327.

EDU 4307 Science & Health Methods-Elem

Content and teaching methods for science and health in the elementary school. Application of child development theories in the teaching of science and health. Emphasis on active involvement of the child in inquiry. Extensive field experience required.

Pre-Requisites: Admission to the Teacher Education Program. Co-requisite courses: EDU 4305 and RDG 4327. Course Fee: \$15

EDU 4312 Methods of Social Studies

Students discover geographic, historical, and culture content and strategies specific to designing and delivering effective social studies instruction for students in grades K-8. Technology and language arts are integrated across the ten themes of social studies through unit plans and activities. Fieldwork required.

Pre-Requisites: Admission to the Teacher Education Program (Benchmark 2).

EDU 41200 Clinical Teaching

Under the coaching guidance of cooperating teachers and university supervisors, students develop proficiencies in each of the educator standards through directed observation, co-teaching, planning and delivering lessons, managing a classroom and reflecting on their experiences. Students will be assigned to a classroom which matches their anticipated certification level and content(s) and must participate a minimum of 70 full school days. Fulfills Experiential Learning requirement.

Pre-Requisites: EDU 4101 and Admission to the Professional Semester. Course Fee: \$600

Education (Ed.D.)

EDU 6310 Christian Values & Ethics

A study of major ethical principles, especially a Christian influenced ethic, and how these principles apply to one's personal life, and the challenges facing the world, primarily as those challenges impact the area of education. Students will be challenged to use ethical principles to analyze and resolve real world ethical dilemmas.

Pre-Requisites: None

EDU 6311 Research I – Academic Writing

This course will prepare the student to begin the dissertation required for the terminal degree. Emphasis will be placed on both academic conventions and technical form for the five-chapter dissertation or other similar product. Topics will include academic writing standards of mechanics, grammar, style, APA form, citation use and placement, dissertation topic, structure, IRB considerations, presentation, and defense.

Pre-Requisites: None

EDU 6312 Research II – Quantitative Research

Presents core statistical concepts and methods that all social science majors, including education, must master in order to understand and do social research. The emphasis is on the use of concepts and tools of statistics in the analysis of social science data.

Pre-Requisites: None

EDU 6313 Multicultural Experiences

A study of skills and techniques to diagnose and solve organizational problems and to influence actions of individuals, groups and organizations in a multicultural school community.

Pre-Requisites: None

EDU 6314 Grant Writing

Develops the knowledge and skills involved in writing competitive grants for federal, state and private funds.

Pre-Requisites: None

EDU 6315 Research III – Qualitative Research

Examines qualitative methods used in social science research, focusing primarily on applications in educational fields. Qualitative research follows an inductive process that involves the collection and analysis of non-numerical data to search for patterns, themes and holistic features that underlie behavioral patterns. The five common research design approaches will be explored: ethnography, grounded theory, case study, phenomenology, or narrative.

Pre-Requisites: None

EDU 6341 Digital Learning

Explores the rapidly changing landscape of learning organizations in the 21st century. Students will explore learning in a globally and digitally connected world and how new learning trends such as problem-based learning, self-directed learning, and flipped classrooms are changing the way children and adults learn and the nature of educational systems.

Pre-Requisites: None

EDU 6380 Research V Dissertation

Production of the dissertation, a formal document which demonstrates the candidate's ability to conduct research that makes an original contribution to theory or practice. The candidate must complete nine hours of this course; this course is repeatable until the student completes and defends the dissertation. *Course Fee: \$600*

EDU 6383 Research V Cumulative Research-Based Inquiry of Practice

Production of the Cumulative Research-Based Inquiry of Practice (CRIP), a formal project which demonstrates the candidate's ability to conduct research that makes an original contribution to education practice. The candidate must complete nine hours of Research V; this course is repeatable until the student completes and defends the CRIP. *Course Fee: \$600*

Educational Administration (M.Ed.)

EDAD 5154 Practicum I

Principal certification candidates will begin the process of preparing for their required certification exam in EDAD 5154. They will work to earn their release for the 268 Exam by demonstrating 80% mastery on practice assessments. Candidates will also draft preliminary plans for their three PASL Tasks in this course. Graded as Pass/No-Pass.

Pre-Requisites: None. Course Fees: \$85

EDAD 5155 Practicum II

Principal certification candidates will prepare for their internship semester in this course by planning their leadership activities in advance, to ensure they fulfill all TEA requirements and plan learning experiences that are aligned with the Principal Domains and Competencies outlined by the state of Texas. They will also continue to prepare for the implementation of their PASL Tasks in

their internship semester to be completed on their respective campus. Graded as Pass/No-Pass.
Pre-Requisites: None. Course Fee: \$75

EDAD 5156 Practicum III

This course is a semester-long internship on the candidate's respective campus, working in concert with a campus mentor and a university supervisor to earn 160 leadership hours. The internship is authentic and meaningful in the development of the intern as a future campus leader. This course must be passed and all requirements for the internship met successfully in order to fulfill TEA requirements for principal certification. Graded as Standard Letter.

Pre-Requisites: None. Course Fee: \$600

EDAD 5322 Legal Foundations of Education

A study of how recent trends and institutional changes in society have impacted the legal aspects of formal education. This class will provide research, class discussions, and activities which will increase students' knowledge of legislation, court precedents, tort and contract law, negligence and liability, societal issues, and how legal issues influence employment, academic/classroom, campus, and administration behavior. Emphasis will be on real problems educators face and on practical and legal responses to those problems.

Pre-Requisites: None

EDAD 5323 Evaluation and Assessment In Education

This course considers a framework for building data literacy through core building blocks and campus applications. Connectors between data-based theory and relevant practice are emphasized.

Pre-Requisites: None

EDAD 5351 School Diversity Leader

A course of study giving students an opportunity to develop and increase skills and knowledge in the areas of religion, ethics, conflict resolution, counseling, the historical influences on ethnic diversity interaction, community relations, and leadership of the school environment. It is necessary for the school administrator to be the force by which these groups cannot only coexist, but to share common goals and work together in a collaborative manner, so all students can be successful and be a productive force in the community, nation and world.

Pre-Requisites: None

EDAD 5352 School Resource Leader

A course of study centered on the administrator's ability to efficiently manage and utilize the human resources, effectively utilize and manage the financial resources, and physical resources for the optimum benefit of students and the learning environment.

Pre-Requisites: None

EDAD 5353 School Professional Development and Continuing Education Leader

A course of study centers on staff development and continuing education of the educational staff. Students will learn to develop a continuing educational program at the local campus and develop staff development training that will meet the needs and continued professional development of the staff at all levels of experience. AEL and TTESS training provided when taught on-ground.

Pre-Requisites: None. Course Fee: \$250

Educational Leadership (Ed.D.)

EDL 6320 Program Analysis & Evaluation

Provides school administrators the skills necessary to review, analyze, and evaluate current programs in the school system in which they operate.

Pre-Requisites: None

EDL 6321 Issues in District Leadership

Explores a wide variety of issues that will confront district-level leaders including establishing collaboratively the vision and mission of a school district, appropriate staff and community communications, facilitating change, and proper use of data.

Pre-Requisites: None

EDL 6322 Organization & Public Relations

Examines best practices for school communications, public relations, and branding; evaluates successful and unsuccessful bond and tax ratification elections; and considers options for dealing with a “communication crisis vortex.”

Pre-Requisites: None

EDL 6323 Research IV – The Proposal

Focuses upon preparation of the dissertation proposal which will include selection of topic, development of problem statement and research hypotheses/questions, initial review of literature, design of study, and significance and limitations of study.

Pre-Requisites: None

EDL 6324 Leadership in the District

Examines a broad view of leadership styles but with concentration on servant leadership as its main focus. The examination of servant leadership will acquaint the student with the advantages of approaching leadership from a shared rather than dominant position. The course will also have an emphasis on ethical behavior and leadership.

Pre-Requisites: None

EDL 6325 Advanced School Law

Focuses on examination of current legal issues which impact the educational community, the process of policy development for school systems, as well as the agencies, courts, and legislative bodies which develop rules and regulations effecting educational systems.

Pre-Requisites: None

EDL 6351 Finance in Education

Centers on the reality of managing budgets for a Texas public school district. Focus will be on acting with integrity, fairness, and competence in dealing with school revenue, expenditure allocations, construction finance, special program finance, and “business office” operations in order to promote success of all students.

Pre-Requisites: None

EDL 6352 Conflict Resolution

Designed to provide a basic understanding of the nature of conflict from an educator's perspective and how it can be more effectively managed in our schools. Students will examine conflicts that arise between students, teachers, support staff, paraprofessionals, parents, administrators, school board members, community members, and anyone else who comes in the school setting. Strategies, processes, and skills for managing conflict will be presented and practiced throughout the course.

Pre-Requisites: None

EDL 6335 Practicum I

The first of two semesters of fieldwork of the Ed.D. Educational Leadership program, wherein students will spend time with one or more mentors in a campus or central office setting and record hours in each of the applicable program objectives.

Pre-Requisites: None

EDL 6336 Practicum II

The second of two semesters of fieldwork of the Ed.D. Educational Leadership program, wherein students will spend time with one or more mentors in a campus or central office setting and record hours in each of the applicable program objectives.

Pre-Requisites: None

Educational Technology (M.Ed.)

EDTC 5315 Foundations of Innovative Design

This course will explore the systematic approach to innovation and creative problem-solving from an interdisciplinary perspective. Students in the course will explore the fundamentals of different design models, including educational technology frameworks, and how design thinking and creativity can be used to enable innovation, curriculum, and training development. This course looks at how individuals and organizations use creativity and design skills to identify and choose opportunities that enable innovation.

Pre-Requisites: None

EDTC 5317 Innovative Design and Delivery of Learning

This course focuses on best practices and the implementation of blended learning to improve learning and outcomes. Students in this course will develop an actionable outline for a blended learning course targeting an instructional area of their choice to be deployed in a training and/or instructional setting that addresses such topics as competency-based learning, personalized learning, Universal Design for Learning (UDL), computer-based learning, differentiation, adaptive learning, and eLearning.

Pre-Requisites: None

EDTC 5319 Artificial Intelligence, Virtual Reality, and Immersive Learning

This course explores the history and relevance of artificial intelligence, virtual reality, and immersive virtual experiences to enhance learning. Students in this course will identify and research relevant virtual technologies to apply to their specific environment (educational, corporate, medical,

etc.) and begin creating virtual models to impact learner engagement.

Pre-Requisites: None

EDTC 5321 Learning and Leadership with Data Analytics

This course focuses on gathering, analyzing, and using data to inform decision making to increase learning. Students in this course will identify potential, relevant data repositories, apply data analytic processes, pinpoint potential trends and predictions, and combine visual elements to communicate trends, outliers, and patterns in data to better inform learning designers and marketing.

Pre-Requisites: None

EDTC 5323 Assessing Performance with Technology

This course explores research and best practices as it relates to using technology to help evaluate learner success through both formative and summative evaluation models in a digital world. Students in this course will apply appropriate evaluation frameworks to analyze and develop authentic, formative, and summative assessments that provide measures of student success in digital environments.

Pre-Requisites: None

EDTC 5325 Supporting Diverse Populations with Instructional Technology

This course focuses on identifying and addressing learner demographics and characteristics that impact learning outcomes. Students in this course will develop a proposal that identifies strategies and a variety of digital tools that support the achievement of learning objectives by diverse populations.

Pre-Requisites: None

EDTC 5327 Legal, Privacy, and Security Issues in Technology

This course will explore the legal, privacy, and security issues in technology from an interdisciplinary perspective. Students in the course will explore laws, policies, and emerging trends and legislation related to the ethical and proper use of technology, access, and data. This course closely examines staff and student legal privacy, and security issues related to technology and raises awareness for how individuals and organizations can remain proactive relating to security issues.

Pre-Requisites: None

EDTC 5329 Special Topics: Innovation & Engagement Technologies

This course focuses on the development and implementation of innovative technologies in an educational setting to positively impact the engagement and comprehension of the audience as they develop content mastery. The course also examines educational psychology as it relates to educational technology.

Pre-Requisites: Successful completion of EDTC 5315, 5317, 5319, 5321, 5323, 5325, 5327, and MED 5305, 5308.

English

ENG 1316 Academic Research and Writing

Introduction to academic composition, research, and information literacy skills. Fulfills the Concordia Common Experience Curriculum Written Communication requirement.

ENG 1317 Introduction to Literature

This is the entry level course in literature. Emphasis on analyzing the literary components of each of four literary forms: poetry, short story, novel, and drama. Critical interpretive skills demanded by each genre are learned and practiced through discussion and composition. Writing assignments, including analytical essays and tests, will constitute at least 75% of the course grade. Fulfills the English Literature requirement in the Concordia Common Experience curriculum.

Pre-Requisites: Completion of ENG 1316 with a minimum grade of "C."

ENG 1371H Honors Writing as Self-Discovery

Writing as self-discovery that leads to a passion for writing about issues external to self. This course incorporates elements of creative nonfiction, academic composition, research, and information literacy skills.

Pre-Requisites: Admission to the Honors Program

ENG 1318 Technology for the Humanities

Introduction to current technological tools appropriate to the Humanities. Cross-listed with HIS 1318.

Pre-Requisites: None

ENG 2301 Survey of Classicism

Major masterpieces of classic Greek and Roman literature with a grounding in mythology.

Pre-Requisites: ENG 1317 or ENG 2371H

ENG 2303 American Literature

The course will present a selection of major canonical authors of American Literature from the colonial time period until the mid-twentieth century. Oppositional voices will be introduced in relation to the Canon. The historical and cultural setting for each literary work will likewise be evaluated for its ideological significance.

Pre-Requisites: ENG 1317 or ENG 2371H

ENG 2305 Survey of British Literature

This course introduces students to the British literary tradition, from the earliest recorded poems to the twenty-first century. Features all literary genres.

Pre-Requisites: ENG 1317 or ENG 2371H

ENG 2307 Survey of British Literature

A survey of the development of western literary criticism from Greek and Roman to twentieth century theories. Students read, analyze, and discuss each critical theory; formal and informal

critical responses to specified literary texts using each of the critical theories studied.

Pre-Requisites: None

ENG 2371H Honors Great Texts: Classic and Contemporary

Analysis of selected important texts across genres from the Western tradition and significant texts across genres from non-Western traditions in order to understand them in their historical, sociological, and cultural contexts and to evaluate their influence on selected contemporary texts.

Pre-Requisites: Honors Program

ENG 2350 Digital Humanities Theory and Praxis

Theory and practice in the developing field of digital humanities. This course required students to survey and choose theoretical applications for a demonstrable DH project that can transfer to the practicum course and offers professional DH applications.

Pre-Requisites: None.

ENG 3301 The Novel- British

An overview of the history and development of the form. Specific novel techniques explored in class discussions and analyzed in short papers.

Pre-Requisites: ENG 1317 or ENG 2371H

ENG 3302 Drama

A survey of dramatic literature in which students read, analyze, and respond critically to representative plays from each of the major dramatic periods: Greek, Roman, Medieval, Renaissance, Restoration, Romantic/Realistic, and Modern. Students learn distinguishing characteristics of each major period's dramatic form.

Pre-Requisites: ENG 1317 or ENG 2371H

ENG 3303 Short Story

Development of the short story. Style, form, interpretation and evaluation of short fiction. Topical, current social and emotional issues discussed in relation to goals of short fiction.

Pre-Requisites: ENG 1317 or ENG 2371H

ENG 3305 Poetry

An intensive study of the major poetic forms. Emphasis on reading, explicating, and interpreting selected poems. Students will complete two papers, two tests, a variety of written exercises, and a comprehensive final exam.

Pre-Requisites: ENG 1317 or ENG 2371H

ENG 3308 The Novel-American

An overview of the history and development of the genre. Specific novel techniques explored in class discussions and analyzed in short papers.

Pre-Requisites: ENG 1317 or ENG 1371H

ENG 3310 English Internship

Supervised on-the-job experience in publishing or other professional-writing sectors, including nonprofit organizations. Over the course of one semester, students provide at least 150 hours of

service and produce a writing portfolio. May only be used once to fulfill ENG credit; may be repeated once for elective credit. Fulfills Experiential Learning requirement.

Pre-Requisites: Junior or Senior standing

ENG 3311 Advanced Writing

The study of clear, graceful, and stylistic essay writing in functional, pragmatic, real-life situations.

Pre-Requisites: ENG 1317 or ENG 2371H

ENG 3312 Business and Technical Writing

Advanced writing skills to meet the challenge of communication in the job market.

Pre-Requisites: ENG 1317 or ENG 2371H

ENG 3314 Creative Writing

Many types of writing will be examined, with an emphasis on short stories and free verse poetry. In-class writing exercises will be used to learn various techniques and aspects of creative writing. Students will be expected to produce a portfolio of two original pieces of fiction and four original poems, critique the writing of others, and prepare a manuscript for publication or submission to a literary contest.

Pre-Requisites: ENG 1317 or ENG 2371H

ENG 3318 Writing for Publication

This course requires students to write a variety of non-fiction compositions suitable for publication in a professional university or public magazine, journal or newsletter. Writing assignments will address investigative articles; reviews of texts, culture and events; editorial perspectives; and the interview article. Students will learn correct composition strategies for each of these perspectives. Students will be required to submit their compositions to appropriate print forums for publication and the response of the publication department if available to their submission. Students will submit a portfolio of their three best compositions as the final exam requirement.

Pre-Requisites: ENG 1317 or ENG 2371H

ENG 3323 Shakespeare

Reading and interpreting of major Shakespearean plays, emphasizing the playwright's artistic development, social context, and use of characterization and imagery.

Pre-Requisites: ENG 1317 or ENG 2371H

ENG 3332 Teaching Writing with Adolescent Literature

A survey of the evolution of adolescent literature, which teaches strategies for exploring, analyzing, and discussing various genres, as well as how to craft meaningful writing assignments in response to these texts. Students are introduced to theoretical foundations of and best practices for individual and classroom-based writing instruction. Extensive reading is required. *Pre-Requisites: Successful completion of any 2000-level English course.*

ENG 3341 Hispanic Writers of the U.S

Writings by and about Hispanic writers of the United States. All of the readings will be made available in English and the class will be taught in English.

Pre-Requisites: None

ENG 4201 Senior Thesis I

The first required course in the two-part capstone sequence for English majors. Culminating portfolio must be completed satisfactorily before student may move on to Senior Thesis II. Graded as "Credit" or "No Credit."

ENG 4101 Senior Thesis II

The second required course in the two-part capstone sequence for English majors. Requires completion and formal presentation of substantive final writing project.

ENG 4301 English Special Topics

It requires close examination and exploration of the chosen topic through reading, discussing, and composing critical responses to key texts.

Pre-Requisites: Successful completion of any 3000 level English literature class

Environmental Science

ESC 1102L Introduction to Environmental Science Lab

Laboratory and field investigation of the scientific and socioeconomic principles underlying the environmental sciences.

Pre-Requisites: None

ESC 1102H Honors Introduction to Environmental Science Lab

Laboratory and field investigation of the scientific and socioeconomic principles underlying the environmental sciences.

Pre-Requisites: Admission to the Honors Program

ESC 1201 Fall Texas Master Naturalist Certification

For students who wish to earn course credit in the Fall semester for beginning verification as a Texas Master Naturalist through the Balcones Canyonlands Chapter at Concordia University Texas. Training courses will be taught by CTX faculty and by professionals from the conservation field. To receive credit for the Fall offering, students must complete at least half of the certification requirements (20 hours basic training, 4 hours advanced training and 20 hours of service).

Pre-Requisites: None. Course Fee: \$85

ESC 1202 Spring Texas Master Naturalist Certification

For students who wish to earn course credit in the Spring semester for beginning verification as a Texas Master Naturalist through the Balcones Canyonlands Chapter at Concordia University Texas. To receive credit for the Spring offering, students must complete the second half of the certification requirements (20 hours basic training, 4 hours advanced training and 20 hours of service). Total for certification is 40 hours basic training, 8 hours advanced training, and 40 hours of service achieved through Fall and Spring course work.

Pre-Requisites: ESC 1201. Course Fee: \$85

ESC 1302 Intro to Environmental Science

An overview of the Earth's geological, hydrologic, atmospheric, and biological environments. Discussions of the physical, social, economic, and political implications of human modification of the environment. An application of the scientific method to solve complex environmental problems. Concordia Preserve tour required.

Pre-Requisites: None

ESC 1402 Intro to Environmental Science

This is an online-only, combined version of ESC 1302 and ESC 1102L. An overview of the Earth's geological, hydrologic, atmospheric, and biological environments. Discussions of the physical, social, economic, and political implications of human modification of the environment. An application of the scientific method to solve complex environmental problems. Concordia Preserve tour required. Co-requisite laboratory course ESC 1402L required.

Pre-Requisites: None. Course Fee (ESC 1402L): \$75

ESC 1410 Introduction to Geographic Information Systems

Introduction to geographic information systems (GIS) and global positioning systems (GPS) for use in data analyses in the sciences and social sciences. Units on basic GIS and cartographic design, internet mapping, cell phone applications, and GPS data collection. This course satisfies the Common Experience Technology requirement, however it does not fulfill the Common Experience Natural Science with Lab requirements. Cross-listed with CSC 1410.

Pre-Requisites: None

ESC 3303 Environmental Law

The origins, politics, policies, and enforcement of environmental law.

Pre-Requisites: None

ESC 3306 Natural Resources Conservation

Ecological, political, and economic factors that influence decisions relating to natural resources, land-use, and sustainable development; appraisal of alternative strategies to cope with conservation issues in the areas of water, energy, forests, range, fisheries, wildlife, and soils. Discussions of conservation history, laws, and ethics.

Pre-Requisites: Any Common Experience natural science lab course

ESC 3308 Environmental Education

Prepares students to implement environmental education opportunities in formal and non-formal education settings. Topics include concepts and philosophy of effective environmental education, education and environmental law/regulations, environmental issues, curriculum alignment and integration and effective environmental education methodologies.

Pre-Requisites: None

ESC 3330 Environmental Modeling

Design and application of modeling techniques using system dynamics and computer software.

Prerequisites: MTH 1351 or math placement at a higher level and 6-8 credit hours of natural science and/or math beyond the core requirements. This course may not be used to satisfy natural

science requirements.

Pre-Requisites: None

ESC 3340 Wildlife Management

Principles of managing wildlife populations and habitat with special consideration given to management in urban environments. Students will apply specific management techniques to improve and maintain habitat on the Concordia campus, Concordia Preserve, and the Balcones Canyonlands Preserve system. Field trips may be required.

Pre-Requisites: ESC1302 or BIO1402 or BIO2403

ESC 3350 Watershed Management

Principles of managing watersheds to improve hydrology, water quality, range, wildlife habitat, and aesthetics. Includes units on soils, policy, planning, economics, and public relations. Field trips may be required

Pre-Requisites: Any Common Experience natural science lab course

ESC 3402 Environmental Chemistry

A study of the chemical principles and reactions that govern the behavior of both natural environmental systems and anthropogenic compounds important to the quality of the environment. Sampling methods, instrumentation and data analysis will be emphasized. Cross-listed as CHE 3402. Students should be co-enrolled in the laboratory part of the course, ESC 3402L.

Pre-Requisites: CHE 1142 and CHE 1342 (or CHE 1402), MTH 1351 (with a minimum grade of "C" in both courses), or math placement at a higher level. Course Fee (ESC 3402L): \$75

ESC 3403 General Ecology

A study of those factors which affect the abundance, biodiversity and distribution of organisms. Includes ecological theory, mathematical modeling, natural history and field techniques. Cross listed as BIO 3403. Students should be co-enrolled in the laboratory part of the course, ESC 3403L.

Pre-Requisites: BIO 1401 or BIO 1402 or BIO 2403 or consent of instructor. Course Fee: \$75

ESC 4310 Environmental Science Internship

Students will participate in an on-the-job environmental work experience under the direct supervision of professionals in a corporation or government agency Graded on a Pass/No Pass basis. Fulfills Experiential Learning requirement.

Pre-Requisites: Junior or Senior level standing

ESC 4360 Special Topics

A detailed exploration of specific topics in environmental science and conservation. Topics will vary by semester and may include: invasive species, GIS, climate change, environmental health and safety, Christian perspectives on environmental issues, and multiple topics relating to conservation in urban environments. Each offering will be discussion-based and reading-intensive. Field trips may be required. May repeat once when topic varies.

Pre-Requisites: Any Common Experience natural science lab course; Junior or Senior classification

ESC 4361 Conservation Project

For advanced students who wish to design and implement a conservation-themed project on campus or in the community. Project design will be done in collaboration with the instructor, other faculty, CTX staff, and/or ESC partners, and final plans must be approved by all stakeholders prior to implementation. May be repeated once in the following semester to allow project completion. May not substitute for ESC major requirements.

Pre-Requisites: Junior or Senior standing

ESC 4411 Research in the Environmental Sciences

Student will pursue an environmental topic or issue through library, field and laboratory investigations as well as data collection, analysis and a final presentation consisting of a written paper and a poster/seminar session.

Pre-Requisites: Junior or Senior standing. Course Fee: \$75

Fine Arts

FA 2301 Honors Arts Experience of Austin

This course introduces students in the Honors Program to the myriad arts institutions, events, and opportunities in Austin. Students will attend professional and university music and theatre events as well as visiting art galleries and museums.

Pre-Requisites: Admission to the Honors Program

FA 2310 Fine Arts Methods

Students preparing for the Texas certification exams (particularly the EC-6 Core Subjects exam) require competencies in the Fine Arts (Music, Art, and Theatre); this course is designed to prepare students for this portion of the exam in coordination with their other Fine Arts courses at Concordia. In addition, students will learn methods and strategies to integrate Fine Arts paradigms and projects into all parts of their curricula.

Pre-Requisites: None. Course Fee: \$50

French

FRE 1401 French I

Introductory French imparts communication skills for daily use in these areas: listening, speaking, reading, and writing. Instruction emphasizes linguistic and cultural accuracy.

Pre-Requisites: None

FRE 1402 French II

Continued introductory French imparts further communication skills for daily use in these areas: listening, speaking, reading, and writing. Instruction emphasizes linguistic and cultural accuracy.

Pre-Requisites: FRE 1401

Geography

GRG 1311 Principles of Geography

A geographic overview of basic Physical Systems (landforms, climate, vegetation...) and Human Systems (cultural geography, political geography, medical geography, geography of sports...) and their interactions at international, national, and local levels.

Pre-Requisites: None

German

GER 1401 German I

Introductory German imparts communication skills for daily use in these areas: listening, speaking, reading and writing. Instruction emphasizes linguistic and cultural accuracy.

Pre-Requisites: None

GER 1402 German II

Continued introductory German imparts further communication skills for daily use in these areas: listening, speaking, reading, and writing. Instruction emphasizes linguistic and cultural accuracy.

Pre-Requisites: GRE 1401

GER 2311 German III

Intermediate German imparts advanced communication skills for daily use in these areas: listening, speaking, reading, and writing. It emphasizes advanced skill in linguistic and cultural accuracy.

Pre-Requisites: GRE 1401 and GRE 1402 or equivalent background

GER 4321 German IV

This course offers students further reading of authentic German texts and viewing of German filmic literature (unmodified, original readings and original German-language film) and practice in discussion of the topics these artifacts treat; that is, students will extend and enforce their knowledge of vocabulary, grammar, and culture. This advanced level of instruction also offers strategies in learning, so students can proceed in their acquisition of language independently. Finally, this reading, viewing and conversation course imparts critical thinking and the ability to develop a sound written thesis.

Pre-Requisites: GRE 1401, GRE 1402, and GRE 2311 or equivalent background

Geology

GLG 3301 Geology

The earth from the perspective of physical and historical geology. Not available for audit.

Pre-Requisites: Three credit hours of a physical science.

Greek

GRE 2311 Greek I

Fundamentals of Greek using Koine and Classical approaches.

Pre-Requisites: None

GRE 2312 Greek I

Continuation of GRE 2311, with reading in Greek New Testament.

Pre-Requisites: GRE 2311

GRE 3313 Greek III

Reading in the New Testament and Hellenistic Greek with correlated grammar review.

Pre-Requisites: GRE 2312

GRE 3314 Greek IV

Readings in the New Testament and in Classical Greek with survey of comparative grammar.

Pre-Requisites: GRE 3313

GRE 4215 Advanced Greek Readings

For those who have satisfactorily completed the basic Greek grammar courses. Selections will be drawn from the New Testament, the Greek Old Testament (the Septuagint) and other Greek literature. May be repeated for credit when readings are varied

Pre-Requisites: GRE 3314.

Health Care Administration

HCA 3300 Health Care Org. and Delivery

This course presents an overview of the healthcare system and the role healthcare organizations have played and will continue to play in the future. It provides an analysis of the organizational structure of healthcare organizations and other healthcare agencies. An examination is made of the administrative and management elements necessary for policy determination, decision making and control to achieve institutional goals and objectives.

Pre-Requisites: None

HCA 3312 Management Essentials in Healthcare Admin

This course provides the student with the foundational concepts of management with functional applications in the healthcare setting.

Pre-Requisites: HCA 3300

HCA 3330 Information Tech in Healthcare

This course examines the rapidly changing role of computers and information systems as key decision support and critical operations facilitation resources in the management of healthcare organizations. The course establishes a framework for understanding the requisite elements of a properly chosen, effectively implemented, and efficiently utilized healthcare information system. As

technological software changes, students will learn about the most up-to-date systems that are being utilized to effectively and efficiently manage and operate healthcare organizations.

Pre-Requisites: HCA 3300

HCA 3360 Principles of Healthcare Finance

This course provides foundational instruction in the practices and responsibilities of the finance function in the healthcare organization and a beginning look at an administrator's role in the use of financial information.

Pre-Requisites: HCA 3300

HCA 4340 Legal Aspects of Healthcare Admin

This course presents an overview of the legal issues important to the health administrator, and provides students with a basic working knowledge of health law. Students are provided with the basic elements of health law and its application to the real world.

Pre-Requisites: HCA 3300

HCA 4370 Healthcare Economics

Built upon both financial management principles and theories of economics, this senior level study of healthcare economics provides a framework for the healthcare manager to analyze the healthcare marketplace and assess potential for profitability.

Pre-Requisites: ECO 2301 or ECO 2302, or permission of Program Director

HCA 4410 Healthcare Admin Practicum

Capstone course for the student majoring in Healthcare Administration. The student is provided actual managerial experience in a healthcare setting. The course is project-oriented, and requires 60 hours of time over a 15-week term dedicated to the practicum setting. Prerequisites: Course taken in last year of degree program. Fulfills Experiential Learning requirement.

Pre-Requisites: HCA 3300 or approval of the program director; upper level standing

Hebrew

HEB 3401 Biblical Hebrew I

The script, vocabulary, and structure of Biblical Hebrew.

Pre-Requisites: None

HEB 3402 Biblical Hebrew II

Continuation of HEB 3401.

Pre-Requisites: HEB 3401

HEB 4201 Hebrew Bible Readings

Continued practice in reading and translating sections of the Hebrew Bible, with review of grammar. This class may be repeated for credit.

Pre-Requisites: HEB 3402

History

HIS 1301 U.S. History to 1877

A survey of U.S. history from European colonization to 1877, relating events of the past to current areas of American life. Emphasis on the origins and development of economic, social, and cultural trends. May be used to fulfill History requirement in the Concordia Common Experience curriculum.

Pre-Requisites: None

HIS 1302 U.S. History from 1877

A survey of U.S. history from the Reconstruction Era to the present. Emphasis on economic cycles, political issues, social and cultural change, and emergence of the United States as a world power. May be used to fulfill History requirement in the Concordia Common Experience curriculum.

Pre-Requisites: None

HIS 1312 Human Geography

A study of the cultural, political, and economic geographies of the regions of the world. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences.

Pre-Requisites: None

HIS 1318 Technology for the Humanities

Introduction to current technological tools appropriate to the Humanities. Cross-listed with ENG 1318.

Pre-Requisites: None

HIS 2301 Historical Methods

An introduction to the discipline and field of history, including what it means to “think historically,” historical research and writing, historiography, and careers in the history field.

Pre-Requisites: None

HIS 2303H Honors United States History

An introduction to the discipline and field of history, including what it means to “think historically,” historical research and writing, historiography, and careers in the history field.

Pre-Requisites: Admission to the Honors Program

HIS 2306 Race and Ethnic Relations

Emphasis on race and ethnic relations as a national concern with emphasis on these concerns in the Southwest. Cross-listed as SOC 2306.

Pre-Requisites: SOC 1301 or HIS 1301 or HIS 1302

HIS 2311 World History to 1500

A survey of the political, philosophical, social, cultural, and economic trends throughout the world to about 1500 focusing on the rise of civilizations, the development of political and legal systems,

religion and philosophy, economic systems and trans-regional networks of exchange. Emphasis is on comparative history and the study of cross-cultural encounters. May be used to fulfill History requirement in the Concordia Common Experience curriculum.

Pre-Requisites: None

HIS 2312 World History from 1500

A survey of the political, philosophical, social, cultural, and economic trends throughout the world after about 1500 focusing on maritime exploration and transoceanic empires, nation/state formation and industrialization, imperialism, global conflicts and resolutions, and global economic integration. Emphasis is on comparative history and the study of cross-cultural encounters. May be used to fulfill History requirement in the Concordia Common Experience curriculum.

Pre-Requisites: None

HIS 3301 History of Mexico

An overview and analysis of the history of Mexico from the pre-Columbian period to the present, including the civilizations of pre-Columbian Mexico, Spanish exploration, the establishment of nationhood, the modernization of Mexico, the Mexican Revolution, and the major political, economic, and social movements following the Revolution. Emphasis will be given to the development of Mexican cultural and national identity. Prerequisite: Three credit hours of history.

Pre-Requisites: Three (3) credit hours of history

HIS 3302 Introduction to Policy History

An introduction to the interdisciplinary field of policy history noting the application of historical perspectives to public policy studies and contemporary policy issues. Students are introduced to basic policy history issues and methodologies.

Pre-Requisites: Three (3) credit hours of history

HIS 3304 The History and Culture of the Mexican American

An analysis of the history and culture of Mexican Americans in the United States over the past two centuries, focusing particularly on the U.S.-Mexican War, the emergence of Mexican American identity, the evolution of thinking about race in the early twentieth century U.S., the growth of Mexican American communities in Texas, immigration policy, labor, and present-day border issues. The course will also explore the unique cultural traditions of Mexican Americans in religion, values, music, and folklore. Cross-listed as SOC 3304.

Pre-Requisites: Three (3) credit hours of history or SOC 1301

HIS 3306 Introduction to Public History

An introduction to public history surveying the major topics in the field through readings, discussion, and guest lectures. Students will learn about the history of public history, employment opportunities for public historians, and public historical issues. Emphasis will be placed on the application of theories of public history to real-world situations.

Pre-Requisites: Three (3) credit hours of history

HIS 3308 Asian History and Culture

This course provides an overview and analysis of the history of the Asian continent. It examines the interaction among peoples of different genders, national origins, races and cultures, and how

such interaction has shaped Asian societies.

Pre-Requisites: Three (3) credit hours of history

HIS 3311 Texas History

An overview and analysis of political, social, economic, and cultural developments of Texas from the era of Spanish colonization to the present including an examination of the roots and development of “Texan” identity.

Pre-Requisites: Three (3) credit hours of history

HIS 3314 Traditions and Values of Classical Civilizations

An historical and thematic approach to the contributions of the classical Greek and Roman worlds to Western civilization.

Pre-Requisites: Three (3) credit hours of history

HIS 3320 Latin American Seminar

Research in current issues and topics in Latin American studies.

Pre-Requisites: HIS 3304

HIS 3321 International Relations Since 1919

An analysis of world events since 1919 that affected relations between nations including wars; peace negotiations; economics, intellectual, and social crisis; and attempts at international cooperation.

Pre-Requisites: Three (3) credit hours of history

HIS 3341 The Civil War Era

An analysis of the major events leading to the outbreak of the American Civil War, wartime politics in both the Union and Confederacy, military aspects of the war, and the economic, social, and political aspects of the Reconstruction Era.

Pre-Requisites: Three (3) credit hours of history

HIS 3342 The American West

An overview and analysis of the history and geography of the American frontier from the colonial period to the late nineteenth century; the frontier experience and its impact on the nation; and the political, social, economic, geographical, and urban developments within the Great Plains, Mountain West, and Pacific West after 1900.

Pre-Requisites: Three (3) credit hours of history

HIS 3343 Post-World War II America

An analysis of the cultural, social and political history of the United States from the end of World War II to the end of the Cold War.

Pre-Requisites: Three (3) credit hours of history

HIS 3344 American Environmental History

An examination of three centuries of changing American attitudes and actions toward the natural environment, the rise of the conservation movement, and the development of an ecological

perspective and the environmental movement.

Pre-Requisites: Three (3) credit hours of history

HIS 3352 History of the Middle Ages

This course will investigate the history of Europe and the Near East from the dissolution of the Roman Empire to the start of the Renaissance. It will study the political, economic, social, and cultural development of the three successor civilizations of the ancient world: Byzantium, Islam, and Western Christendom, with particular emphasis on the Christian West. It will look at how these civilizations developed and interacted in both peace and war.

Pre-Requisites: Three (3) credit hours of history

HIS 3354 History of Christianity

An overview of the history of Christianity from the New Testament era to the present. The course will focus on the central persons, ideas, issues, and events that have shaped the Christian Church and its worship, doctrine, ethics, organization, and mission. Cross-listed as REL 3354.

Pre-Requisites: REL 1301

HIS 4201 Senior Thesis

The Capstone course for history majors comprised of a personally designed research program that culminates in a journal quality research paper. NOTE: Students who complete the thesis requirements in HIS 4201 will receive a letter grade. Students who plan to complete the thesis requirements in HIS 4101 Senior Thesis Continued will receive an "Administrative Incomplete" which will be removed when HIS 4101 is completed and a grade is assigned.

Pre-Requisites: HIS 2301 Historical Methods and at least six hours of upper-level HIS coursework

HIS 4101 Senior Thesis Continued

This course allows a student to complete the research, writing, and presentation of the Senior Thesis, HIS 4201. This course may be taken only once. If a student receives an "F" for HIS 4201 and No Credit for HIS 4101, that student will have to retake HIS 4201. Graded as "Credit" or "No Credit." NOTE: This course allows a student to complete the research, writing, and presentation of the Senior Thesis, HIS 4201. This course may be taken only once. The letter grade assigned to this course will replace the "Administrative Incomplete" in HIS 4201, Senior Thesis.

Pre-Requisites: HIS 4201

HIS 4310 History Internship

Supervised on-the-job experience and involvement at one of Austin's museums, libraries, archives, agencies or businesses. Interns will work with professionals in the history field. Prerequisites: Junior or senior standing, 3.00 GPA in the major, 2.50 cumulative GPA and a grade of C or better in HIS 2201 Historical Methods, and at least six hours of upper-level HIS coursework. May be repeated once for credit as a history elective. Fulfills Experiential Learning requirement.

Pre-Requisites: Junior or Senior standing, 3.0 GPA in major, 2.5 cumulative GPA, and HIS 2301

HIS 4360 Topics in History

A seminar style examination, discussion, and analysis of a historical issue, time period, person, or group.

Pre-Requisites: Six (6) credit hours of history

Instructional Leadership (M.Ed.)

IL 5311 Leading Instructional Improvement

The ability to improve student outcomes at the campus or district level is paramount for school leaders in today's world. School improvement is guided by the State of Texas through the use of the Effective Schools Framework (ESF). It is important for aspiring leaders to become familiar with the State's ESF process and to develop the knowledge and skills required to implement the Effective Schools Framework on their own campuses or within their respective districts. *Pre-Requisites: None*

IL 5312 Academic Coaching

Academic coaching is essential for school reform; it is imperative to teach the efficacy of, and outcomes associated with, effective coaching. The course will: 1) define academic coaching, 2) demonstrate implementation; 3) identify effective outcomes that will improve teacher performance and increase student learning.

Pre-Requisites: None

IL 5313 Developing Organizational Capacity

This course is designed to take a practical approach to exploring individual and organizational strategies designed to simulate adult learning and build capacity in schools and districts through the coaching process to achieve higher levels of performance. In addition, this course is aimed at promoting understanding of how to improve performance results through individual and organizational accountability.

Pre-Requisites: None

IL 5322 Legal Foundations of Education

A study of how recent trends and institutional changes in society have impacted the legal aspects of formal education. This class will provide research, class discussions, and activities which will increase students' knowledge of legislation, court precedents, tort and contract law, negligence and liability, societal issues, and how legal issues influence employment, academic/classroom, campus, and administration behavior. Emphasis will be on real problems educators face and on practical and legal responses to those problems.

Pre-Requisites: None

IL 5351 School Diversity Leader

A course of study giving students an opportunity to develop and increase skills and knowledge in the areas of religion, ethics, conflict resolution, counseling, the historical influences on ethnic diversity interaction, community relations, and leadership of the school environment. It is necessary for the school administrator to be the force by which these groups cannot only coexist, but to share common goals and work together in a collaborative manner, so all students can be successful and be a productive force in the community, nation and world.

Pre-Requisites: None

Kinesiology

KIN 1132 Racquet Sports (Skill)

Basic rules and fundamental skills of badminton, racquetball, and tennis taught through participation. May not be repeated for credit.

Pre-Requisites: None

KIN 1133 Basketball/Softball (Skill)

Basic rules and fundamental skills of each activity taught through participation. May not be repeated for credit.

Pre-Requisites: None

KIN 1134 Bowling/Archery (Skill)

Basic rules and fundamental skills of each activity taught through participation. Students must pay bowling fees. May not be repeated for credit.

Pre-Requisites: None

KIN 1136 Golf/Volleyball (Skill)

Basic rules and fundamental skills of each activity taught through participation. Students must pay golf fees. May not be repeated for credit.

Pre-Requisites: None

KIN 1137 Introduction to Martial Arts (Skill)

An activity course designed to develop and enhance movement skills in Judo, Karate, and Tai Kwon Do. May not be repeated for credit.

Pre-Requisites: None

KIN 1139 Table Tennis/Pickle Ball (Skill)

Addresses the five components of skill-related fitness. The development of agility, speed, quickness, coordination and power are necessary for a balanced fitness regimen. Student participation is key to the success of any skill-based activity course, as repetition is the cornerstone of acquiring sports skills. The skill components of table tennis and pickle ball are transferable and reinforce the learning of the skill component. May not be repeated for credit.

Pre-Requisites: None

KIN 1140 Intercollegiate Golf – Women

Credit awarded to those who participate in the entire season of intercollegiate golf. May be repeated for credit.

Pre-Requisites: None

KIN 1141 Intercollegiate Basketball – Men

Credit awarded to those who participate in the entire season of men's intercollegiate basketball. May be repeated for credit.

Pre-Requisites: None

KIN 1142 Intercollegiate Tennis – Men

Credit awarded to those who participate in the entire season of men's intercollegiate tennis. May be repeated for credit.

Pre-Requisites: None

KIN 1143 Intercollegiate Baseball – Men

Credit awarded to those who participate in the entire season of men's intercollegiate baseball. May be repeated for credit.

Pre-Requisites: None

KIN 1144 Intercollegiate Golf – Men

Credit awarded to those who participate in the entire season of intercollegiate golf. May be repeated for credit.

Pre-Requisites: None

KIN 1145 Intercollegiate Cross Country – Men

Credit awarded to those who participate in the entire season of intercollegiate cross country. May be repeated for credit.

Pre-Requisites: None

KIN 1146 Intercollegiate Cross Country – Women

Credit awarded to those who participate in the entire season of intercollegiate cross country. May be repeated for credit.

Pre-Requisites: None

KIN 1147 Men's Intercollegiate Track & Field

Activity course designed to provide students with the opportunity to develop and/or improve their existing psychomotor skill abilities in the events of track and field. Students will practice the movement patterns of the various events and become competent in the execution of those skills. Additionally, students will be exposed to instructional methodologies used in the teaching of track and field.

Pre-Requisites: None

KIN 1157 Women's Intercollegiate Track & Field

Activity course designed to provide students with the opportunity to develop and/or improve their existing psychomotor skill abilities in the events of track and field. Students will practice the movement patterns of the various events and become competent in the execution of those skills. Additionally, students will be exposed to instructional methodologies used in the teaching of track and field.

Pre-Requisites: None

KIN 1151 Intercollegiate Basketball – Women

Credit awarded to those who participate in the entire season of women's basketball. May be repeated for credit.

Pre-Requisites: None

KIN 1152 Intercollegiate Tennis - Women

Credit awarded to those who participate in the entire season of women's tennis. May be repeated for credit.

Pre-Requisites: None

KIN 1153 Intercollegiate Softball - Women

Credit awarded to those who participate in the entire season of women's softball. May be repeated for credit.

Pre-Requisites: None

KIN 1154 Intercollegiate Soccer – Women

Credit awarded to those who participate in the entire season of intercollegiate soccer. May be repeated for credit.

Pre-Requisites: None

KIN 1155 Intercollegiate Soccer – Men

Credit awarded to those who participate in the entire season of intercollegiate soccer. May be repeated for credit.

Pre-Requisites: None

KIN 1156 Intercollegiate Volleyball – Women

Credit awarded to those who participate in the entire season of women's volleyball. May be repeated for credit.

Pre-Requisites: None

KIN 1176 Wt. Training & Conditioning (Fitness)

An activity course designed to develop and enhance muscular strength and endurance. May be repeated for credit.

Pre-Requisites: None

KIN 1177 Aerobic Walking (Fitness)

Addresses the components of health-related fitness. The development of cardiovascular endurance, muscular endurance, body composition and flexibility are necessary for a balanced fitness regimen. Student participation is key to the success of any activity course, and walking is a classic learning environment for the appreciation of fitness as improvement is rapid and the basic movements necessary to master the activity are pre-existing. May be repeated for credit.

Pre-Requisites: None

KIN 1200 Scuba

The scuba class provides familiarity with the knowledge, skills, and equipment necessary to obtain Open Water Certification with Scuba Schools International (SSI). *Pre-Requisites: None. Course Fee: \$500. Maximum number of students limited to 8.*

KIN 1235 Introduction to Fencing

Basic rules and fundamental skills of fencing taught through participation. Students will learn fundamental attacks, defenses, and tactics with the foil. This course may not be repeated for credit.
Pre-Requisites: None. Course Fee: \$50. Maximum number of students limited to 15.

KIN 1301 Personal Wellness

This course is designed to promote a healthy lifestyle derived from proper physical activity and informed lifestyle choices. Major topics of emphasis include an overview of the principals of wellness, stress management, nutrition and weight management, and concepts and principals of physical fitness. With the assistance of related laboratory experiences, students will be provided the opportunity to evaluate their current state of wellness in each of the topic areas and plan appropriate lifestyle change strategies. May be used to fulfill Kinesiology requirement in the Concordia Common Experience curriculum.

Pre-Requisites: None

KIN 1302 First Aid and Safety

Safety in prevention of injuries; first aid treatment, including CPR, emergency care and treatment of injury with special emphasis on playground and school injuries. Note: Does NOT count for core physical education requirements.

Pre-Requisites: None

KIN 2301 Personal and Community Health

Personal health problems, venereal disease, AIDS, birth control, cancer, heart diseases, nutrition, fitness, mental health, family living, and community and consumer health. Prerequisite: Sophomore standing or consent of instructor. Note: Does NOT count for core physical education requirements. Note: If a student presents a medical doctor's letter that precludes participation in activity courses, KIN 2301 will be allowed in lieu of the three one hour KIN courses in the core.

Pre-Requisites: None

KIN 2302 Introduction to Physical Education

Overview of the foundations of physical education and various careers available in this field. Note: Does NOT count for core physical education requirements.

Pre-Requisites: None

KIN 2303 Theory & Application of Physical Fitness

A study of the various theories of human physical fitness and their application in forming conditioning protocols. An acceptable fitness profile, through in-class conditioning, is to be developed and fitness testing field experience is required. Note: Does NOT count for core physical education requirements.

Pre-Requisites: None

KIN 2330 Prevention & Treatment of Movement Injuries

This class covers the methods and techniques for the treatment and prevention of injuries related to participation in physical activities. Emphasis is placed on injury management procedures, knowledge of movement injuries and conditioning, and taping and bracing procedures.

Pre-Requisites: None

KIN 3311 Musculoskeletal Anatomy and Biomechanics

The musculoskeletal system: application of basic mechanical principles in human movement. Note: Does NOT count for core physical education requirements.

Pre-Requisites: None

KIN 3313 Motor Development and Learning

An introduction to the theories of motor learning and skills acquisition. Does NOT count for core physical education requirements. Physiological development of the child in relation to physical performance. Note: Does NOT count for core physical education requirements.

Pre-Requisites: None

KIN 3315 Org & Admin of Physical Ed & Sport

Principles, practices, and procedures in organizing and administering physical education/athletic programs; staffing, facilities, budgeting, equipment, and safety. Note: Does NOT count for core physical education requirements.

Pre-Requisites: None

KIN 3316 Evaluation in Physical Ed and Sport

Principles of measurement and evaluation, elements of statistical techniques appropriate to physical education, criteria for test selection, construction and evaluation of human performance in the cognitive and motor domains. Note: Does NOT count for core physical education requirements.

Pre-Requisites: None

KIN 3331 Coaching Team Sports

An introduction to team sports-history, psychology, rules, skills, equipment, instructional techniques, safety principles, adaptations for the physically disabled and competitive programs. Note: Does not count for core physical education requirements.

Pre-Requisites: None

KIN 3332 Coaching Individual Sports

An introduction to individual sports-history, psychology, rules, skills, equipment, instructional techniques, safety principles, adaptations for the physically disabled and competitive programs. Note: Does NOT count for core physical education requirements.

Pre-Requisites: None

KIN 3333 Methods of Teaching Phys Ed

Students will discover effective methods and techniques for teaching physical education while integrating the dimensions of wellness for healthy living. Major components of the course include writing instructional objectives and lesson plans, applying principles of organization and class management, and incorporating delivery strategies unique to physical education. Satisfies the Wellness requirement for the Common Experience. Cross-listed with KIN 3333.

Pre-Requisites: Grade of 'C' or higher in KIN 2301 or KIN 2302, or Admission to the Teacher Education Program.

KIN 3334 Exercise and Sport Psychology

This class covers the psychological aspects of movement activities that underline performance. It also covers the intrinsic and extrinsic factors that must be recognized in order to understand, motivate, and evaluate human movement. Note: Does NOT count for core physical education requirements. Cross listed with PSY 3334.

Pre-Requisites: None

KIN 3336 NASM Fitness Lifespan YES/SFS

Students will learn to expand their knowledge to understand and serve youth/ senior populations by applying appropriate and relevant exercise selections with special considerations.

Pre-Requisites: None

KIN 3337 Applied Nutrition Coaching

Students will learn all the latest information regarding nutrition, behavior change, and coaching, all while using cutting-edge technology—developed for proficiency, competency, and student success, in becoming a Certified Nutrition Coach.

Pre-Requisites: None

KIN 3340 Legal and Ethical Aspects of Sports Administration

This course is an introduction to the study of legal and ethical issues that arise in sports administration. Students will learn the nature of ethical conduct and will practice decision making to solve legal and ethical challenges that arise in the industry of sports administration. The course will encourage students to evaluate ethical theories and their application to specific issues in sports, including fairness in competition, cheating, racial and gender equality, gambling, and violence.

Pre-Requisites: None

KIN 3345 Sports Communication

An introduction and overview of sports communication including theoretical assumptions, sports communication history and current models, the impact of sports communication in print and electronic media, and current socio-cultural and legal issues in sports communication. Students will critically assess the impact of sports communication processes on sport management organizations. Students will critically evaluate the communication efforts of sports administration organizations while learning how to develop their own communications in the field of sports administration.

Pre-Requisites: None

KIN 4310 Kinesiology Internship

Provides students with the opportunity to demonstrate and gain experience building and using diagnostic skills, organization skills, group process skills, and program skills in a community, school or university setting. May be repeated once for credit. Fulfills Experiential Learning requirement.

Pre-Requisites: Junior or senior standing

KIN 4330 Exercise Physiology

This class is a study of the physiological responses of the body to exercise. Emphasis is on the application of the physiological principles deemed most important for understanding physical training. Note: Does NOT count for core physical education requirements.

Pre-Requisites: Grade of "C" or higher in BIO 3411

Latin

LAT 1301 Latin I

This course covers the basic grammatical structure of the language. Readings include selections from the Vulgate and Medieval Church Latin.

Pre-Requisites: None

LAT 1302 Latin II

This course continues with more advanced grammatical study. Readings include selections from Ecclesiastical Latin and passages from Ovid's *Metamorphoses*.

Pre-Requisites: LAT 1301

LAT 2311 Latin III

A continuation of the study of Latin grammar with readings from Cicero, Vergil, Ovid, and from the Vulgate.

Pre-Requisites: LAT 1302

Leadership

LDR 1100 Life & Leadership

This course is designed to assist students in a successful adjustment to college life at Concordia University Texas. Required of all first-year undergraduate students at Concordia, students will engage in lessons and activities that provide opportunities for higher level success in academics, social interactions, institutional affinity and personal growth. Students will learn both practical skills like time management and healthy relationships, as well as dig into deeper concepts like Christian leadership, vocation, and diverse mindsets. Fulfills one of the Leadership requirements of the Concordia Distinctive.

Pre-Requisites: None

LDR 1100T Life & Leadership Transfer

This course is designed to assist transfer students in a successful adjustment to college life at Concordia University Texas. Required of all first-year undergraduate students at Concordia, students will engage in lessons and activities that provide opportunities for higher level success in academics, social interactions, institutional affinity and personal growth. Students will learn both practical skills like time management and healthy relationships, as well as dig into deeper concepts like Christian leadership, vocation, and diverse mindsets. Fulfills one of the Leadership requirements of the Concordia Distinctive.

Pre-Requisites: None

LDR 2201 Leadership Theory

This course will provide students a theoretical and practical understanding of leadership theories that will enable them to engage in leadership in healthier and more effective manners. Through the use of individual and group projects, students will consider different leadership models and strategies, examine the role of followers, and develop a personal theory of leadership that can be

used in various settings. Fulfills one of the Leadership requirements of the Concordia Distinctive.
Pre-Requisites: LDR 1100 or LDR 110T

LDR 2116S / 2116T Student Leadership Practicum

This course will provide students with an opportunity to experience a variety of directed and supervised leadership experiences. Students will select (or be selected to) a leadership program and be expected to fully engage in the required level of preparation and participation needed for the program or experience. Students will be directed by a Concordia faculty member, possibly in conjunction with an outside agency. Acceptable experiential leadership programs include, but are not limited to, the following: Student Government, Concordia Tradition Team Leaders, Texas Civic Ambassadors, Community Board Experience. This course is not intended for full-time employment or internship opportunities. Course number suffixes relate to different iterations of the leadership practicum. Students may repeat this course up to three times for credit.

Pre-Requisites: None

LDR 3301 Peer Leaders

The purpose of this course is to develop student leadership by having current students serve as leaders in Life and Leadership freshmen classes at Concordia University Texas. Students apply and are selected to serve as Peer Leaders, to walk with incoming freshmen as they transition into college and work with an assigned instructor to help facilitate the class. This class provides students the opportunity to learn about specific leadership theories that they can use as they connect with and build positive influence and mentoring opportunities with freshmen. Class participants are required to attend trainings, Peer Leader class sessions, meetings of their assigned Life and Leadership section and other specific events or activities as assigned. This course can be substituted for LDR 2201 or taken as an upper-level elective.

Pre-Requisites: LDR 1100 or LDR 1100T and Course instructor permission required.

LDR 3311 Diversity, Equity & Inclusion in Leadership

Students will explore diversity concepts, analyze equitability in leadership, and learn to cultivate an inclusive environment in their communities and workplaces. This course will define these concepts for students while simultaneously giving them a way to put these concepts into leadership practice.

Pre-Requisites: LDR 2201 or LDR 3301 (or concurrent enrollment in LDR 2201 or LDR 3301)

LDR 3312 Community & Volunteer Leadership

Students will gain a deeper understanding of the importance of effective leadership in community and volunteer opportunities. This course will specifically explore ideas related to coalitional leadership, values based leadership, and motivational theories and examine how theories like these impact leadership at more local levels.

Pre-Requisites: LDR 2201 or LDR 3301 (or concurrent enrollment in LDR 2201 or LDR 3301)

LDR 3313 The Depths of Followership

Popular culture elevates leaders while often ignoring or disparaging followers; yet followers serve critical roles in any organization or structure. In this course, students will learn about the significance of being an effective follower and how to develop skills of effective followership. Additionally, students will learn how to build dynamic relationships between followers and leaders and to connect followership skills to leadership skills for effective results.

Pre-Requisites: LDR 2201 or LDR 3301 (or concurrent enrollment in LDR 2201 or LDR 3301)

LDR 43XX Creating Lasting Change

Change is widely recognized as a hallmark of effective leadership. However, creating change that is both successful and lasting is a significant challenge. In this course, students will learn the principles of change, learn to look at change through different styles of leadership, and build skills to help them work through the steps needed to create, foster and maintain positive change as change agents.

Pre-Requisites: LDR 1100, LDR 2201 (or LDR 3301), and two of the LDR Minor Required courses (Community & Volunteer, DEI in Leadership, or Depths of Followership)

LDR 4101C / 4101G / 4101E Leadership & Career

Students will master the meaning of vocation as they explore individual competencies, and prepare professional instruments such as a resume, online profile, and supporting materials. Additionally, students will learn about diversity in the workplace, inclusivity and belonging, benefits and leadership at all levels. Students will connect what they have learned in their individual majors to transferable skills as they move toward meaningful work or graduate school. There are three variations of this course: LDR 4101C which is open to all students, LDR 4101G which is targeted toward students looking at graduate programs, and LDR 4101E which is restricted to Education majors due to the specific competencies in the course.

Pre-Requisites: LDR 1100 or LDR 1100T and successful completion or concurrent enrollment in LDR 2201 or LDR 3301, and upper-level standing (60+ hrs).

Master of Business Administration (MBA)

MBA 5103 Leadership - Self

Leadership Seminars are designed to provide a space for students to integrate course content, personal commitments, and real world experience to transform themselves as leaders. The Seminars enable students to do this with the support and input of their cohort peers. Each seminar covers an essential aspect or “site” of leadership and consists of relevant assessment and discovery tools, discussion, self-reflection, and integration of course material.

Pre-Requisites: None

MBA 5113 Leadership - Others

Leadership Seminars are designed to provide a space for students to integrate course content, personal commitments, and real world experience to transform themselves as leaders. The Seminars enable students to do this with the support and input of their cohort peers. Each seminar covers an essential aspect or “site” of leadership and consists of relevant assessment and discovery tools, discussion, self-reflection, and integration of course material.

Pre-Requisites: None

MBA 5200 Data Analytics

This course is designed to equip managers and leaders with the knowledge to understand, manage, and visualize the data, and apply the appropriate analysis tools to translate managerial, financial, or economics problems into timely business applications. This course will also examine data management, exploratory data analysis and visualization, descriptive statistics, inferential statistics, regression analysis, and data mining in the decision-making process of solving complex business problems.

Pre-Requisites: Students may be required to take Peregrine Software before the course begins per admission criteria.

MBA 5201 Marketing Management

This course focuses on the marketing decisions made by businesses and organizations, covering the strategic role of marketing, marketing problems typically encountered in business, and the analytical concepts and techniques used in marketing. Students will understand marketing planning and strategy in the context of organizational plans as well as how to integrate the functional areas of business administration into a realistic approach to solving complex problems at the executive level.

Pre-Requisites: None

MBA 5202 Managerial Economics

This course covers the economic forces that have a fundamental influence on a business' profitability, growth, and sustainability. It provides the core economic concepts that guide managerial decision-making. Topics include Supply/Demand, Capital Markets, Consumer Theory, Structures of Markets, Trade-offs, Cost-Benefit Analysis, Forecasting and Budgeting. Prerequisites: *Peregrine Software module may be required depending upon admission requirements.*

Pre-Requisites: None

MBA 5207 Financial Accounting & Management

This course covers the use of accounting data and processes in managing a business or an organization. In particular, it focuses on the concepts, processes, and models that provide information and control for managers, as well as the ways in which accounting supports and enables marketing and strategy decisions, performance, and operations management. Prerequisites: *Peregrine Software module may be required depending upon admission requirements.*

Pre-Requisites: None

MBA 5208 Organizational Ethics, Behavior and Change

This course covers the ethical interconnection of worldviews, values, and behavior in an organization. The course analyzes the impact of ethical decisions on organizational stakeholders, as well as tools for creating and sustaining an ethical culture in understanding theoretical models and interplay of moral, legal, and social issues in managing one's self, individuals, groups, and organizations in a complex environment where stakeholders often have competing interests. Topics include Leadership, Collaboration/Groups, Change, Culture, Resilience, and Organizational Learning.

Pre-Requisites: None

MBA 5216 Managing Operations and Supply Chain

This course covers key operational aspects of a business: tactical and strategic decision-making, project management, lean operations, Six Sigma, TQM, and change management. Supply chain management topics include: business continuity planning, inbound logistics planning for environmental sustainability and corporate responsibility, and IT solutions for agile supply chain management. Course emphasizes the use of IT, social media, and the Internet for business processes and communication.

Pre-Requisites: None

MBA 5220 Business, Society and Public Policy

This course examines current political, legal, and social forces acting on business and the ways in which business influences these forces. It focuses in particular on legislative and regulatory actions, policy making and implementation, and the interaction of the political-economic systems, public policy, and business. The course also examines the evolving relationship of business, government, and nonprofit organizations in America today, especially the rise of business-public-private-nonprofit collaborations.

Pre-Requisites: None

MBA 5222 Leadership - Community

Leadership Seminars are designed to provide a space for students to integrate course content, personal commitments, and real world experience to transform themselves as leaders. The Seminars enable students to do this with the support and input of their cohort peers. Each seminar covers an essential aspect or “site” of leadership and consists of relevant assessment and discovery tools, discussion, self-reflection, and integration of course material. Leadership Seminar III will help students understand the needs of their local community and explore how they can personally make an impact for the common good within their community.

Pre-Requisites: None

MBA 5225 Entrepreneurship and Innovation

Principles and techniques of opportunity identification, new venture creation, innovation and sustainability. This course considers entrepreneurial innovation from concept to market. The course emphasizes social innovation and social entrepreneurship, including how principles of each benefit traditional businesses. Designed to support students’ venture creation in MBA Capstone.

Pre-Requisites: Students must have completed the majority of the MBA program and successfully complete MBA 5207 and MBA 5312 before enrolling in this course.

MBA 5306 Critical Thinking

This course is designed to give new MBA students a common foundation in management concepts, analysis, and technologies. Students will improve their skills in self-awareness, reflection, listening, and making sound judgments. Students will learn how to research and write at the graduate level, prepare and analyze case studies, improve their speaking and presentation skills, along with working in teams. Students will also develop skills necessary to evaluate the assumptions, evidence, and inferences of what one thinks, reads and hears, and to present ideas in a logical, thorough, and persuasive manner.

Pre-Requisites: None

MBA 5310 Internship

The internship provides students with the opportunity to apply the cumulative knowledge and skills in the MBA program to a real-world work environment. The internship involves the following steps: 1) selecting a work site; 2) developing a contract that ensures both employer and student benefit; 3) fulfilling the contract activity through ongoing work; and 4) preparing a paper that summarizes the learning experience and outcomes. The expectation is for a minimum of 150 hours completed in this internship. The internship course does not warrant course substitutions or course transfers.

Pre-Requisites: Students must successfully complete 6 credit hours of the MBA program and must have a minimum of a 3.0 GPA to be eligible.

MBA 5312 Corporate Finance and Investments

This course focuses on finance concepts and tools necessary for successfully running a business and making effective decisions. Emphasis placed on preparing students with the practical tools necessary for running a business. Topics include Debt/Equity mix, Cash Flow, Opportunity Cost, Risk-Return, Valuation of Assets/Projects. Students will participate in the investment stock market simulation *StockTrak* global trading software throughout the semester.

Pre-Requisites: Peregrine Software module may be required depending upon admission requirements. MBA 5207.

MBA 5313 Organizational Processes in Consulting and Coaching

This is an application course exploring the profession of management consulting and coaching. Designed to teach through understanding the art and science of internal and external management consulting/coaching, students are offered an opportunity to explore the relationship between theory and practice, and the continual changing nature of the consultation industry. Students must take this course in their last semester of the MBA-ODL program.

Pre-Requisites: None

MBA 5318 Principles of Corporate Training and Learning

In this course students will examine critical processes associated with the planning, developing and implementing of training and education programs that build upon an organization's vision and mission. The processes will mesh proven methods with new trends that connect theories, models and strategies within organizational development.

Pre-Requisites: None

MBA 5319 Talent Management

This course emphasizes the process between workforce engagement, motivation and development. Especially examined in this course is the role that talent management and motivation has in the realm of organizational learning and training. The course investigates into various motivational and talent management theories to help the student to understand the complexities and meaning/purpose of work - why do people work, and how effective motivation can lead to future employee success.

Pre-Requisites: None

MBA 5447 Capstone

This course allows students to establish a link between their academic knowledge and practical applications by partnering with business and industry in their community. Students will plan, develop, and propose a capstone project with emphasis on management consulting or integrate their learning experiences throughout the program in the creation of a venture or project they might pursue once they have left the program. Designed to build off concepts and techniques taught in the Entrepreneurship and Innovation Course.

Pre-Requisites: Students must have completed the majority of the MBA program and successfully complete MBA 5207 and MBA 5312 before enrolling in this course. Course Fee: \$300

MBA 5350H Healthcare Strategy and Business Planning

This course will examine strategic planning processes and will focus on the key components of business planning in the healthcare management environment. Healthcare reform, ethical concerns

and social justice are additional topics in managing the dual tracks of strategic and operational planning for today's healthcare leader.

Pre-Requisites: None

MBA 5352H Ethical and Legal Issues in Healthcare Management

This course presents an overview of the ethical and legal issues important to the healthcare manager, and provides students with a working knowledge of ethics and health law. Students will learn the contemporary elements of health law and its application to healthcare management with a range of topics from professional standards, patient rights, government regulation, negligence and malpractice and medical records.

Pre-Requisites: None

MBA 5354H Policy Trends and Considerations for the Healthcare Manager

The purpose of this course provides students with an accurate understanding of the policy challenges in the U.S. healthcare care system today. The course will focus on the challenges of cost, quality, and access, the relationship between market failure and the passage of the Affordable Care Act (ACA), and the expected and potential impact of the ACA on the organization, structure, delivery and outcomes of the health care system.

Pre-Requisites: None

MBA 5356H Quality Methods for Healthcare Performance

This course serves as a capstone course for students in their last semester that will examine methods and tools for managing quality in health facilities, physician practices, managed care and public health organizations. Topics will cover developments in quality assurance and improvement processes, risk management, the Affordable Care Act, and utilization management practices and trends.

Pre-Requisites: None

Master of Education (M.Ed.)

MED 5303G/5303E Curriculum Design and Practice

Provides an intensive study of pedagogical approaches and materials for teaching in schools, such as state curriculum documents and the curricular recommendations of professional associations. Specific emphasis will be given to study of alternative approaches to curriculum theory, design, practice and evaluation.

Pre-Requisites: None

MED 5305G/5305E Educational Research

Study of research methodology which explores various research modules, analyzes examples of research to identify models of acceptable and unacceptable research, and develops skills in using statistical techniques which enable the educator to be a reflective practitioner.

Pre-Requisites: None. Course Fee (MED 5305E): \$105

MED 5308G/5308E Ethics and Leadership in Education

All Master of Education students take Ethics and Leadership. This course is designed to promote deep and reflective thinking about important matters. Included will be important ethical issues in contemporary schooling such as cultural and religious diversity, professional conduct, student and parental rights, discipline, and technology. Students will evaluate their effectiveness as leaders. As a result of class activities, they will develop an awareness of personal leadership strengths, weaknesses, preferences, styles, and behaviors.

Pre-Requisites: None

MED 5309G/5309E Differentiated Instruction & Learning Theory

Characteristics of effective teaching for all learning styles as well as major theories of learning will be studied. Recognizing the need to correlate the theoretical knowledge of learning and the ability to deliver the material in a manner that is relevant to the learner are essential for effective teaching. This course will provide students with an understanding of the various theories for learning and of differentiated styles of instructional delivery to correspond with various needs and abilities of learners.

Pre-Requisites: None

Master of Public Health (MPH)

MPH 5300 Essentials of Health Behavior

This graduate level course prepares students to understand how individual behavior impacts health while examining the social, political and economic factors that influence the 'big picture' on population health overall. This course is grounded in the practical everyday behaviors of both individuals and populations with a focus on the key theories of human behavior drawn from the social sciences as well as public health. It will examine the range of methods for changing behavior that can negatively impact your health and how to apply these methods to programs that promote healthy lifestyles and programs that prevent diseases.

Pre-Requisites: None

MPH 5301 Community Health

This course examines population health from a community perspective. Communities can be different and diverse and include people from various cultures. This course examines the cultural values and practices that impact population health including how issues such as structural bias, social inequities and racism can undermine health especially at the community level. This course will engage students in understanding the strategies to identify stakeholders and build partnerships to influence health outcomes as well as to advocate for political, social and economic policies that will improve the health of populations in different communities.

Pre-Requisites: None

MPH 5302 Principles of Health Education

Many people care about their health but may not know what to do to ensure they are living a healthy lifestyle. This graduate level course teaches students how to educate others (individuals, populations, communities and whole societies) on how to improve their health in the short term as well as the long term. This course provides a combination of tools that are designed to help populations increase their knowledge on healthy living. Through case studies and real world

examples, current challenges, needs and barriers to health education will also be investigated while practical solutions and best practices for diverse populations are also addressed.

Pre-Requisites: None

MPH 5305 Global Health Systems

This course examines the importance of population health in different parts of the world including how factors such as globalization can affect the global burden of disease. The course compares the organization, structure and function of healthcare systems across both national and international settings and introduces students to different health systems, their benefits as well as their challenges. This course examines development, human rights, immigration issues, humanitarian emergencies and some of the more complex global health challenges facing our world along with great innovations and strategies and ideas that have been tried or are being tried to resolve them.

Pre-Requisites: None

MPH 5306 Essentials of Environmental Health

This course focuses on the environmental factors that can impact a population's health and allows students to understand how ecology is connected to human health. The concept of ONE health is examined including the interaction and interconnectedness between human health, animal health and the health of ecosystems in order to maintain sustainable environments that will improve population health rather than harm it. Environmental concerns, issues related to climate change, urbanization, population density and changing demographics will also be included.

Pre-Requisites: None

MPH 5308 Public Health Economics and Management

Students will learn about the economic factors that impact the health industry, how organizations use the basic principles and tools of budget and resource management to maintain their stability. Students will also learn about the economic factors that impact individual choices on lifestyle and health needs. In-depth cases will be studied including the ever-changing dynamics in the wider society that impact the supply and demand of different types of healthcare products, service and delivery methods.

Pre-Requisites: None

MPH 5309 Public Health Communication

This course examines how communication theory, strategies, and implementation design impact health outcome improvement. Students will learn to apply communication strategies in a variety of settings to impact health behavior change while evaluating successful and unsuccessful health communication campaigns. Students will be challenged to develop and use written and oral communication skills along with strategies of persuasion to impact individual, organizational, and community-level audiences.

Pre-Requisites: None

MPH 5310 Global Public Health Policies and Trends

The main purpose of this course is to teach students that the making of public health policy is a complex multidimensional process. It will allow students to gain a deeper understanding of the policy making challenges in the U.S. healthcare care system as well as the challenges of international organizations in working with different countries to improve population health. The course will examine the importance of diverse groups being involved in the policy-making process

and evaluate policies for their impact on population health in the United States as well as other countries. It will also examine the role of international organizations and the question of who governs the governing bodies in the international arena and how that impacts population health.

Pre-Requisites: None

MPH 5401 Principles of Epidemiology

Students will study disease patterns in order to understand why diseases occur, who they impact, where they occur, when they occur and the factors that influence their growth, reduction in growth as well as how to prevent them from occurring in the first place. Students will learn the diverse tools used to study diseases and apply both quantitative and qualitative tools to list the major causes and trends for illness and or disease in the United States and other parts of the world.

Pre-Requisites: None

MPH 5402 Essentials of Biostatistics

This graduate level course introduces students to the competencies related to evidence-based research in public health, particularly quantitative research and analysis. This course focuses on analyzing quantitative data using biostatistics, informatics, and computer-based programming programming software. Students will learn how to select quantitative collection methods appropriate for a given public health context and they will learn how to interpret results of quantitative data analysis for public health research, policy, or practice.

Pre-Requisites: None

MPH 5501 Global Public Health Ethics and Research

In this course students will learn how to select methods to evaluate public health programs as well as interpret results of data analysis for public health research, policy or practice and discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence. Students will also learn about the protection of human subjects (participants) in research and the ethical concerns that must be dealt with in a study design at the local, national and global levels. Case studies will be analyzed and students will be trained in ethical behavior, while conducting research (particularly qualitative studies) whether real or practice based (which would be a class based activity only) and well as how to respond to ethical concerns in study designs. Students will be trained to complete an IRB application and maintain ethical conduct throughout the duration of their real or simulated research study.

Pre-Requisites: None

MPH 5505 Public Health Leadership Practicum and Capstone

This course focuses on applying the principles of leadership, governance and management to address population health needs. In this course students will learn strategies on creating a vision, how to empower others and how to foster collaboration for making strong decisions. Students will further learn how to negotiate and apply mediation skills to different types of settings and situations, organizational and/or community challenges that can occur in the practice of public health. As the practicum and capstone this course allows students to participate in experiential learning by working in a health or health-related organization of choice. This is a culminating course. Students will also design a population-based policy, program, project or intervention as part of their capstone/thesis paper.

Pre-Requisites: None

Mathematics

MTH 0313 Fundamentals of Mathematics

This is a course to review basic academic skills in mathematics and elementary algebra with special emphasis on problem solving. This course does not satisfy the mathematics requirements for a degree and is graded on a Credit/No Credit basis.

Pre-Requisites: Placement at the Lower Developmental Level

MTH 0320 Intermediate Algebra

This course is a review of the high school algebra courses. It is designed to provide preparation for college entry math courses. This course does not satisfy college mathematics requirements for a degree and is graded on a Credit/No Credit basis.

Pre-Requisites: MTH 0313 or placement at the Upper Developmental Level

MTH 1323 Quantitative Literacy

This course includes a study in the uses of mathematics in society today. Fundamental concepts of logic and mathematics are explored to develop students' ability to think logically, quantitatively, and mathematically and to help them develop their problem solving abilities. Topics include logic, mathematics of finance, probability and statistics.

Pre-Requisites: MTH 0320 or placement at the Lower College Entry Level.

MTH 1330 Applied Finite Math

This course includes application of arithmetic and algebra to business in order to solve supply and demand, break even, maxima-minima, and similar problems. Other topics included are systems of equations solved by Geometric, Gauss-Jordan elimination, and inverse matrix methods. Several applications of math of finance and basic concepts of probability are incorporated into the course. (Adult Degree Program use only.)

Pre-Requisites: MTH 0320 or placement at the Lower College Entry Level

MTH 1331 Finite Mathematics

This course includes applications of algebra to business, matrices, linear programming, simplex method, and derivatives.

Pre-Requisites: MTH 0320 or placement at the Lower College Entry Level

MTH 1332 Applied Calculus

Topics in this course include differential and integral calculus with emphasis on business, economics, life sciences, and social sciences applications.

Pre-Requisites: MTH 1351 with a grade of C or higher.

MTH 1341 Probability

Topics include permutations, combinations, equally likely outcomes, conditional probability, independence and dependence, mathematical expectations, and binomial distributions.

Pre-Requisites: MTH 0320 or placement at the Lower College Entry Level

MTH 1351 College Algebra

Topics in this course include the concept of functions and their graphs, with emphasis on polynomial, rational, exponential and logarithmic functions. The Fundamental Theorem of Algebra with application to zeros of polynomials and solutions to equations and inequalities using matrix arithmetic are incorporated into the curriculum.

Pre-Requisites: MTH 0320 or placement at the Lower College Entry Level

MTH 1352 Precalculus

Algebra and trigonometry topics necessary for further study in Calculus I are addressed in this course. Topics include linear and quadratic functions, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, trigonometric identities, and applications of trigonometric functions to solutions of triangles, arithmetic of complex numbers, and the polar coordinate system.

Pre-Requisites: MTH 1351

MTH 1370H Honors Mathematics and Effective Thinking

This course introduces students in the Honors Program to developments in modern mathematics. Topics include fractals, the fourth dimension, statistics, probability, and graph theory. Special emphasis will be placed on the elements of effective thinking.

Pre-Requisites: MTH 0320 or placement at the Lower College Entry Level and membership in the Honors Program or permission of the instructor

MTH 2301 Introduction to Statistics

This course provides students with the methods and logic necessary to perform elementary statistical analysis. Topics may include descriptive measures, probability, sampling, theory of random variables, binomial and normal distributions, estimation and hypothesis testing, analysis of variance, regression and correlation, and nonparametric methods.

Pre-Requisites: MTH 0320 or placement at the Lower College Entry Level

MTH 2305 Discrete Structure

This course is an analysis of the basic structures that form the foundations of mathematics and computer science including statements, sets and subsets, number sets, sequences, relations, orderings, partitions, functions, graphs, and trees. Structures defined through induction and recursion, including introduction to the solutions of recurrence relations are addressed. Emphasis will be on formal logical and combinatorial proof. Cross-listed with CSC 2305 Discrete Structures.

Pre-Requisites: CSC 1401 with a grade of "C" or higher. Also MTH 1352 with a grade of 'C' or higher or math placement at Upper College Entry Level.

MTH 2401 Calculus I

This is the first course in single-variable calculus. It includes a review of basic functions, limits and continuity, definitions of derivatives and integrals, and differential rules. Introduction to the Fundamental Theorem of Calculus, Extreme Value Theorem, Rolle's Theorem, and Mean Value Theorem are included. Applications of related rates, curve sketching (speed and acceleration), optimization, and introduction to numerical integration are incorporated into the course.

Pre-Requisites: MTH 1352 with a grade 'C' or higher or placement at Upper College Entry Level

MTH 2402 Calculus II

This course is a continuation of MTH 2401, Calculus I. Integration techniques include substitutions, integration by parts, partial fraction decomposition, and integration tables. Sequences, series, convergence, and Taylor's Theorem are examined. Applications to numerical integration, first-order differential equations, and analytic geometry are incorporated into the course.

Pre-Requisites: MTH 2401 with a grade of 'C' or higher

MTH 3101 Problem Solving: Algebra, Geometry, and Trigonometry

General problem solving techniques and specific problem solving strategies will be used in solving algebra, geometry, and trigonometry problems.

Pre-Requisites: MTH 1352 with a grade of 'C' or higher or placement at Upper College Entry Level

MTH 3102 Problem Solving: Number Theory

General problem solving techniques and specific problem solving strategies will be used in solving number theory problems.

Pre-Requisites: MTH 2401 with a grade of 'C' or higher.

MTH 3103 Problem Solving: Combinatorics

General problem solving techniques and specific problem solving strategies will be used in solving combinatorics problems. This is a level 3 course.

Pre-Requisites: MTH 1352 with a grade of 'C' or higher or placement at Upper College Entry Level

MTH 3104 Problem Solving: Miscellaneous Problems

General problem solving techniques and specific problem solving strategies will be used in miscellaneous problems including recreational problems.

Pre-Requisites: MTH 1352 with a grade of 'C' or higher or placement at Upper College Entry Level

MTH 3301 Mathematics for Teachers I

Designed for students completing degrees that prepare students for teacher certification in one of the following areas: Core Contents (EC-6 or 4-8) or Math 4-8. Topics: number concepts and theory; patterns and relationships. Students will integrate problem solving, reasoning, manipulatives and technology throughout.

Pre-Requisites: MTH 1351 with a grade of 'C' or higher

MTH 3302 Mathematics for Teachers II

This course is designed for students completing degrees that prepare students for teacher certification in one of the following areas: Core Contents (EC-6 or 4-8) or Math 4-8. Topics: proportional reasoning, geometry concepts, measurement, data, probability and statistics. Students will integrate problem solving, reasoning, manipulatives and technology throughout.

Pre-Requisites: MTH 1351 with a grade of 'C' or higher

MTH 3305 Mathematics for Teachers III

This course is designed to develop and extend the mathematical content knowledge of prospective middle school and high school teachers. Topics include problems in algebra, trigonometry, analytic geometry, calculus Euclidean geometry, probability, statistics, and discrete mathematics using technology. Graphing calculators and computers will be employed to illustrate and encourage

conjecturing and problem solving with an emphasis on applications. In addition, a brief survey will be made of major documents and resources pertinent to secondary mathematics teachers, such as the NCTM Standards, state standards, teaching certification, and math anxiety. *Pre-Requisites: MTH 3301 and MTH 3302 with a grade of 'C' or higher*

MTH 3309 Numerical Analysis

Algorithms of numerical analysis are covered. Topics include floating point arithmetic, approximation, numerical integration and differentiation, solution of nonlinear equations, and solution of ordinary differential equations. Programming assignments will give experience in applying selected algorithms. Cross-listed with CSC 3309.

Pre-Requisites: CSC 1402 and MTH 2402 with a grade of 'C' or higher

MTH 3311 Linear Algebra

This course includes systems of linear equations, vector spaces, linear transformations, representation of linear transformations by matrices, matrix algebra, and determinants.

Pre-Requisites: MTH 2401 with a grade of 'C' or higher

MTH 3313 Number Theory

Divisibility, primes, congruences, quadratic reciprocity, Diophantine equations and simple continued fractions are examined in this course.

Pre-Requisites: MTH 2401 with a grade of 'C' or higher

MTH 3315 Abstract Algebra

Topics in this course include the basic concepts of groups, rings, integral domains, fields, isomorphisms, and group homomorphism.

Pre-Requisites: : MTH 2305 and MTH 3311

MTH 3316 Geometry

The extension of geometry concepts including the study of tessellations, transformations, isometrics, topology, and non-Euclidean geometries.

Pre-Requisites: MTH 2401 with a grade of 'C' or higher

MTH 3317 Ordinary Differential Equations

Solutions to ordinary differential equations and initial value problems, their existence and uniqueness are addressed with an emphasis on solution methods including the Laplace transform. Equations studied include first-order separable, linear, and exact equations; higher-order linear equations; and systems of linear equations. Also included is an introduction to series solutions, numerical solutions, and stability in nonlinear systems.

Pre-Requisites: MTH 2402 with a grade of 'C' or Higher

MTH 3325 Real Analysis

Construction of the real numbers and rigorous study of their properties, including topological considerations, limits of sequences, continuity and differentiation of functions, the Riemann and Lebesgue integrals, and the topologies of function spaces.

Pre-Requisites: MTH 3410 and MTH 2305

MTH 3330 Mathematical Modeling

This course is designed to provide students with an introduction to the entire mathematical modeling process. Students will be involved in creative and empirical model construction, in model analysis, and in model research.

Pre-Requisites: MTH 2401 with a grade of 'C' or higher

MTH 3341 Theory of Probability

This course is an introduction to probability at the undergraduate level. Topics include probability spaces, random variables, basic discrete and continuous probability distributions, and conditional probability. Additional topics may include an introduction to multivariate distributions, generating functions, and statement of basic limit theorems of probability.

Pre-Requisites: MTH 2402 with a grade of 'C' or higher

MTH 3410 Calculus III

This course includes multivariable calculus topics such as vectors, 3-D geometry, and vector-valued functions. Differential and integral calculus of functions of several variables, vector fields and theorems including Fundamental Theorem for Line Integrals, Green's Theorems, Divergence Theorem, and Stokes's Theorem are also examined. Applications to optimization and modeling of motion are incorporated into the course.

Pre-Requisites: MTH 2402 with a grade of 'C' or higher

MTH 3412 Advanced Calculus for Applications

Topics for this course include infinite series, ordinary differential equations, partial differential equations, and Fourier series.

Pre-Requisites: MTH 2402 with a grade of 'C' or higher

MTH 4101 Advanced Problem Solving

General problem solving strategies and specific problem solving techniques will be used in solving advanced problems in undergraduate mathematics. Classical problems as well as contemporary problems will be studied at the discretion of the instructor and the interests of the students.

Pre-Requisites: MTH 3410, 3311, and 3317 with a grade of 'C' or higher

MTH 4310 Cryptology

Applications of abstract algebraic and number theoretic concepts to the science of secure cryptography. Topics include historical ciphers, public-key cryptography, signed messages, secure protocols, and cryptanalysis, especially as these deal with electronic communications.

Pre-Requisites: MTH 3313 or MTH 3315 and CSC 1401

MTH 4317 Partial Differential Equations

This course introduces the students to the three basic boundary value problems. It covers both the classic Fourier series method for solving the problems, as well as the more modern and flexible finite element method.

Pre-Requisites: MTH 3317 with a grade of 'C' or higher

MTH 4330 Complex Analysis

This course is an introduction to analytic and harmonic functions and complex analysis

Pre-Requisites: MTH 3410 with a grade of 'C' or higher

MTH 4340 Topology

This course is an introduction to the central concepts of topology: open and closed sets, continuity, compactness, and separation.

Pre-Requisites: MTH 2305 with a grade of 'C' or higher.

MTH 4390 Math Internship

Students will participate in an on-the-job mathematics work experience under the direct supervision of professionals in a corporation or government agency.

Pre-Requisites: Junior or Senior mathematics major and approval of the head of the mathematics department

Ministry

MIN 1101 Ministry Preparation

A Pass/No Pass course required every term for pre-seminary students providing experience and training in personal development, reflecting and spiritual growth, relationship building, Bible study, ministry field experience, career options and related topics.

Pre-Requisites: None

MIN 1110 Organizational Ministry Leadership

Students will explore, observe, and examine the complexities of organizational structure in traditional and nontraditional ministry. This course will present students with these different ministry structures, but then also teach students how to work effectively in these settings as they potentially develop into Ministry Executives, middle managers, and on the ground team leaders.

Pre-Requisites: None

MIN 1120 Team Ministry Leadership

The Church is one foundation with Christ at the center who has gifted His Church to do the work of Ministry put before them. This course explores the gifts that Christ gives in professional Church-workers as well as para-professionals, contract, and volunteer workers within the church. Together, these workers assemble a team that does Ministry together. This course will have students examine this team, learning how to communicate, collaborate, and commiserate with their teams in ministry in order to continue to spread the Gospel of Christ Jesus.

Pre-Requisites: None

MIN 1130 Leading in Diverse Ministry Contexts

Students will examine urban, rural, small town, global, and school ministry contexts (learning structure) and learn how to serve, live, and thrive in said contexts (via practical application). This course will present students with these different ministry spaces and connect professionals/organizations who work in these settings as well.

Pre-Requisites: None

MIN 1140 Ministry Teaching

Christ has given His Church the gift of Teaching. This important development of the Faith that He Himself implanted falls on the shoulders of those who minister to others via preaching, teaching, and gospel proclamation. This course will explore ministry teaching from a Biblical Perspective, developing students as and exposing students to teaching in ministry settings.

Pre-Requisites: None

Music

Applied Music Lessons – Initial Level (All Lessons Repeatable for Credit)

1 credit (MUS X1XX) = 1 thirty-minute lesson each week

2 credits (MUS X2XX) = 1 sixty-minute lesson each week

Other requirements for credit include:

- periodic group classes that students are required to attend throughout the semester
- attendance at musical performances
- written reports

Course Fee: \$100 per credit hour

Pre-Requisites: None

MUS 1110 Piano-Keyboards

MUS 1111 Guitar

Only Guitar lessons are available in a private or group setting. Lessons meet once a week where students learn the basic fundamentals of guitar in small groups.

MUS 1112 Organ-Keyboards

MUS 1115 Woodwind Lessons

MUS 1116 Brass Lessons

MUS 1117 Percussion Lessons

MUS 1118 Strings

MUS 1119 Voice Lessons

MUS 1124 University Choir

MUS 1128 Symphonic Winds

MUS 1210 Piano-Keyboards

MUS 1211 Guitar

MUS 1212 Organ-Keyboards

MUS 1215 Woodwind Lessons

MUS 1216 Brass Lessons

MUS 1217 Percussion Lessons

MUS 1219 Voice Lessons

MUS 1218 Strings

Applied Music Lessons – Advanced Level (All Lessons Repeatable for Credit)

Advanced students may pursue upper-level lessons. These advanced students have already had significant instruction at the initial level. Students may either register for half-hour (31XX) or one-hour (32XX) lessons.

Other requirements for credit include:

- periodic group classes that students are required to attend throughout the semester
- attendance at musical performances
- written reports

Course Fee: \$100 per credit hour

Pre-Requisites: Consent of instructor after successful completion of an upper-level jury.

MUS 3110 Piano-Keyboard

MUS 3111 Guitar

MUS 3112 Organ-Keyboard

MUS 3115 Woodwind Lessons

MUS 3116 Brass Lessons

MUS 3117 Percussion Lessons

MUS 3119 Voice Lessons

MUS 3118 String Lessons

MUS 3210 Piano-Keyboard

MUS 3211 Guitar

MUS 3212 Organ-Keyboard

MUS 3215 Woodwind Lessons

MUS 3216 Brass Lessons

MUS 3217 Percussion Lessons

MUS 3219 Voice Lessons

MUS 3218 String Lessons

MUS 1124 University Choir

The primary vocal ensemble of Concordia University Texas. Concerts include a range of historic and modern repertoire in a variety of styles. Membership determined by audition. Suggested concurrent enrollment in voice lessons. Repeatable for credit.

Pre-Requisites: None

MUS 1128 Symphonic Winds

Students may participate in the Concordia Symphonic Winds (for winds, brass, string and percussion players) or Living Praise (travelling worship band), both by audition. Suggested concurrent enrollment in instrumental music lessons. Repeatable for credit.

Pre-Requisites: None

MUS 1129 Vocal Ensembles

Small vocal ensemble performing music from the standard chamber vocal literature. Membership is by audition only. May be repeated for credit..

Pre-Requisites: Enrollment in private voice lessons and MUS 1124 University Choir required, or consent of instructor

MUS 1131 Concordia Jazz Collective

Open to all students with ability to perform on a standard jazz/band instrument with regular performances. May be repeated for credit.

Pre-Requisites: None

MUS 1332 Music Fundamentals

Students learn basic concepts of notation, rhythm, melody, harmony and form through performance, composing, and listening.

Pre-Requisites: None

MUS 1333 American Popular Music

Survey course of popular music in American culture from inception to present day. Styles for listening and study include: blues, jazz, rhythm and blues, rock and roll, country, punk, reggae, and disco.

Pre-Requisites: None

MUS 2115 Woodwind Methods

An introduction to the study of woodwind instruments: flute, clarinet, saxophone and oboe. The fundamentals of playing each instrument will be emphasized and the student will learn effective teaching techniques for practical application in a teaching environment.

Pre-Requisites: MUS 2334 or consent of instructor

MUS 2118 Aural Skills I

Building sight singing skill, aural awareness, and the ability to identify errors in rhythms and melodies..

Pre-Requisites: Students must be concurrently enrolled in MUS 2334 Music Theory I

MUS 2119 Aural Skills II

Continuation of MUS 2118. Expansion of sight singing skill, aural awareness, including two-part melodic dictation and ability to recognize chords in harmonic progressions in major and minor modes.

Pre-Requisites: Students must be concurrently enrolled in MUS 2335 Music Theory II.

MUS 2120 String Methods

An introduction to the study of string instruments: violin, viola, cello and double bass. The fundamentals of playing each instrument will be emphasized and the student will learn effective teaching techniques for practical application in a teaching environment.

Pre-Requisites: MUS 2334 or consent of instructor

MUS 2125 Percussion Methods

An introduction to the study of percussion instruments: snare drum, bells, xylophone, bass drum, cymbals, drum set, and auxiliary percussion. The fundamentals of playing each instrument will be emphasized and the student will learn effective teaching techniques for practical application in a

teaching environment.

Pre-Requisites: MUS 2334 or consent of instructor

MUS 2130 Brass Methods

An introduction to the study of brass instruments: trumpet, French horn, trombone, euphonium, and tuba. The fundamentals of playing each instrument will be emphasized and the student will learn effective teaching techniques for practical application in a teaching environment.

Pre-Requisites: MUS 2334 or consent of instructor

MUS 2160 Composition Lessons

The study and application of the musical techniques necessary to compose music from small to larger complex forms in a variety of styles

Pre-Requisites: MUS 2334

MUS 2210 Diction for Singers I

Provides students the tools to correctly sing in English, liturgical Latin, French, and German. Students will be introduced to the International Phonetic Alphabet (IPA) as a tool for translating musical texts. Learning will be guided by three types of assignments: written (IPA text translations), oral (speaking and reading musical texts) and applied (performances of selected repertoire in each of the languages being studied.)

Pre-Requisites: None

MUS 2214 Basic Conducting Techniques

The study of beginning conducting technique, including the physical and technical skills of conducting, beginning score preparation, and aural skills necessary to conduct ensembles.

Pre-Requisites: MUS 2334

MUS 2250 Communication through Music and Art of World Culture

The class will give an introduction to world culture through the aspects of music and art. The meanings, social functions, aesthetic ideals, and behaviors associated with music and art vary greatly across the world's cultures. This class will expose students to music and art from Africa, Asia, Europe and the Americas. The influences of art and music to a culture's philosophies will be examined. Images, instruments, folk songs, traditional songs, painting, sculptures, icons, expression of art and popular music will be explored.

Pre-Requisites: None

MUS 2260 Composition Lessons

The study and application of the musical techniques necessary to compose music from small to larger complex forms in a variety of styles.

Pre-Requisites: MUS 2334

MUS 2333 Music Technology

Techniques and resources for music notation, production and synthesis. Beginning with the understanding of the applicable models, students move to an understanding of current industry-standard practices and their best fit within a musical program.

Pre-Requisites: MUS 2334 or consent of the instructor

MUS 2334 Music Theory I

Principles of harmony: triads, part writing, non-harmonic tones, harmonization, seventh chords, secondary dominants and modulation taught through analysis and composition. Introduction to counterpoint through species counterpoint. Melodic analysis.

Pre-Requisites: MUS 1332, Theory Entrance Exam or consent of the instructor

MUS 2335 Music Theory II

Continuation of MUS 2334, including additional harmonic structures and chords and binary and ternary forms.

Pre-Requisites: MUS 2334

MUS 2340 History of Jazz

A survey of jazz history from its origins to present day. Styles include ragtime, swing, bebop, cool jazz, hard bop, avant-garde, fusion, Latin jazz, and contemporary jazz.

Pre-Requisites: None

MUS 2350 Intro to World Music and Culture

Examination of a variety of musical traditions from around the world. Course will be taught from an ethnomusicological perspective, focusing on music as an extension of artistic, cultural, economic, social, political and religious contexts.

Pre-Requisites: None

MUS 3120 Aural Skills III

The third in a sequence of four Aural Skills classes - each one building upon the foundation of the previous classes. Students will continue to develop and increase aural comprehension and continue to develop their ability to sing with preparation and at sight constructions that are frequently found throughout their experiences in music. This course will cover more advanced musical forms such as Fugue, Invention, and Sonata Form; advanced chromatic melodies; 4-part chorale dictation and chromatic, borrowed and Neapolitan chords.

Pre-Requisites: MUS 2119

MUS 3121 Aural Skills IV

The final class in a sequence of four Aural Skills classes - each one building upon the foundation of the previous classes. Students will be able to recognize and aurally analyze Twentieth Century Music Techniques; be able to sight-sing with accuracy of pitch more advanced prepared and unprepared heavily chromatic, whole tone, 12-tone and modal melodies; be able to hear, rhythm read and notate atonal music, mixed meter dictation, mirror rhythms, augmentation, diminution; play modes, whole tone, twelve tone scales on the piano; be able to recognize twentieth century writing techniques in the music of Debussy, Bartok, Messian and Stravinsky.

Pre-Requisites: MUS 3120

MUS 3223 Advanced Conducting Techniques

A continuation of MUS 2214, studying advanced conducting techniques, especially asymmetrical and mixed meter, recitative, large scores, and continuing study of conducting technique and score preparation.

Pre-Requisites: MUS 2214

MUS 3230 Resources for Modern Worship

This course examines contemporary expressions of worship, and prepares musicians to lead congregations into these forms of worship expression. Cross-listed as REDU 3230.

Pre-Requisites: None

MUS 3233 Piano Pedagogy

A one-semester survey course that acquaints students with the fundamentals of piano teaching. Students will examine of the process of learning music and how it applies to the elementary - intermediate piano student. Students will explore current piano methods and materials for piano teaching and their practical applications; current issues related to independent studio management, lesson planning and other issues related to the teaching profession. Observation and directed teaching at local music studios in both private and group lesson settings. This is a course for music majors or minors with any of the music specializations. Fulfills Experiential Learning requirement.

Pre-Requisites: MUS 2335 and MUS 3331

MUS 3234 Vocal Pedagogy

A one-semester survey course of vocal pedagogy. Students will create an understanding and awareness of vocal pedagogy to inform their teaching and performance practices. The analysis of vocal anatomy and function leads to application of appropriate vocal techniques for vocal health, production, and instruction. Students will study developmentally appropriate vocal techniques and best practices for elementary school, secondary school, and post secondary school in both ensemble and solo vocal applications.

Pre-Requisites: MUS 2118 and MUS 2334

MUS 3270 Performance Practice and Literature

An upper-level music course combining general period performance practices from medieval through modern music, specific instrumental and vocal practices of certain historical periods, and guided research into standard practice and literature for each student's chosen primary instrument. This course applies the fundamentals taught in applied music instruction and the music history sequence of classes. Students will apply these practices together in solo and ensemble settings.

Pre-Requisites: MUS 2335

MUS 3331 Music Pedagogy

The purpose of this course is to provide future music educators with pedagogical techniques, methods, and literature of the most influential music educators of the 18th, 19th and 20th centuries. Students will study the methods and philosophies of Zoltan Kodaly, Karl Orff, Jaques Emile Dalcroze, and Shinichi Suzuki and learn how they shaped the world of music education through their innovative philosophies and methods in singing, rhythm, movement, improvisation, aural skills and composition.

Pre-Requisites: MUS 2335

MUS 3332 Orchestration

Examining tonal resources of instrumental and vocal media; arranging and transcribing for a variety of styles and ensembles.

Pre-Requisites: MUS 2335

MUS 3336 Music Theory III

Continuation of MUS 2335, including analysis and composition of various forms, including invention, fugue, and sonata. Harmonic content includes extended chords and harmonic practice of the Romantic period.

Pre-Requisites: MUS 2335

MUS 3337 Music Theory IV

Continuation of MUS 3336 and includes the study of harmonic practices from the Post-Romantic, Impressionistic, and Twentieth Century periods of music history and the use of extended and new harmonic practices.

Pre-Requisites: MUS 3336

MUS 3338 Composing and Arranging

Composing and Arranging builds on the skills developed in Music Theory and Aural Skills. Students will study various compositional styles, compose original works, study various arranging techniques, and arrange music for a variety of instruments and ensembles.

Pre-Requisites: MUS 2118, 2119, 2334, 2335, and 3336

MUS 3342 History of Music I

Music, composers and instruments of ancient, Medieval, Renaissance and Baroque eras.

Pre-Requisites: MUS 2335

MUS 3344 History of Music II)

Music, composers and instruments of late Baroque, Classical, Romantic, and moderneras.

Pre-Requisites: MUS 2335

MUS 3356 Choral Methods

Administering the adult choral program; conducting technique development; choral literature analysis and selection; service and program planning.

Pre-Requisites: MUS 2335 and MUS 3223

MUS 3362 Worship and Music

Music and Worship explores the various musical influences on Christian Worship throughout history. Particular attention will be given to hymns and music from the Lutheran tradition, especially as that tradition is represented in the Lutheran Service Book. At the same time, music from other Christian traditions will also receive significant attention in this course. At the end of the course, students will be able to assess and select musical resources appropriate to a worship context.

Pre-Requisites: None

MUS 4105 Music Recital

One-hour public musical recital displaying student's ability to perform solo music in a variety of genre and historical styles. Must also register for two credits of private music instruction on corresponding musical instrument.

Pre-Requisites: Consent of instructor. Course Fee: \$100

MUS 4110 Worship Internship

A review of the principles for administering and managing a parish worship program and application of these principles in a supervised parish experience. Music majors will generally pursue this internship in the last year of attendance. Fulfills Experiential Learning requirement.

Pre-Requisites: None. Course Fee: \$250

MUS 4112 Service Playing

Service playing teaches the fundamentals of accompanying congregational song, including tempo, articulation, and phrasing. Advanced students will also learn song introductions, improvisation, alternative harmonizations, and other aspects of arranging. Students may engage the course on their primary instrument and may also learn the skill on a secondary instrument. Throughout the course, students will learn a variety of hymns, songs, canticles, and other music of the church.

Pre-Requisites: MUS 2334; MUS 2335 and MUS 3336 also recommended, but not required.

MUS 4212 Music in the Church

Skills required of a church musician, studying liturgies and organizational practices of the Lutheran Church - Missouri Synod. This course is required for those seeking a Director of Parish Music (DPM) certification.

Pre-Requisites: MUS 1112 and consent of instructor

Nursing

J1 Courses

NUR 3250 Pharmacology for Nurses I

Evidence based practice is used to introduce the pharmacotherapeutic concepts. These concepts are incorporated into nursing practice to improve patient care for adults with low to moderate-acuity health problems. Emphasis is placed on principles of medication safety in the administration of medications and patient education. Major drug classifications, through the use of prototypes, are used to facilitate student learning. The impact of technology, economic, and regulatory forces as well as collaboration with the health team are discussed. Ethical/legal and cultural considerations are explored across the life span.

Pre-Requisites: Successful completion of Pre-Nursing requirements and admission to the Professional Nursing Sequence.

Co-requisites: All J1 courses.

Co-requisites for readmission: NUR 3336, NUR 3336S, and NUR 3325.

NUR 3325 Adult Health I Skills

The Adult Health I Skills course allows the application of the knowledge, principles, concepts, and attitudes necessary to perform a health assessment and provide basic care for persons experiencing low to moderate acuity health problems. The course focuses on the ability of the student to accurately and safely perform the skills in accordance with current practice.

Pre-Requisites: Successful completion of Pre-Nursing requirements and admission to the Professional Nursing Sequence.

Co-requisites: All J1 courses.

Co-requisites for readmission: NUR 3535, NUR 3336, and NUR 3336S.

NUR 3330 Foundations of Professional Nursing

This course is an introduction to the philosophy and theory of nursing, the nursing process, critical thinking, clinical judgment and professionalism. The course enculturates the nursing student into professional behaviors, norms, comporment, and practice via: ethical and legal principles, regulatory agencies and professional organizations, Interdisciplinary relationships, bedside leadership/management, and roles of professional nurses.

Pre-Requisites: Successful completion of Pre-Nursing requirements and admission to the Professional Nursing Sequence.

Co-Requisites: All J1 courses.

Co-requisites for readmission: NUR 3336, NUR 3336S, and NUR 3325

NUR 3336/S Adult Health Nursing I Practicum

This course is a practicum in the clinical application of knowledge, skills, and attitudes necessary to provide safe, high-quality patient-centered care for adults experiencing low- to moderate-acuity medical-surgical health problems and behavioral health problems.

Pre-Requisites: Successful completion of Pre-Nursing requirements and admission to the Professional Nursing Sequence.

Co-requisites: NUR 3336S; all J1 courses.

Co-requisites for readmission: NUR 3336S, NUR 3535, and NUR 3325.

NUR 3535 Adult Health I Theory

This course teaches the knowledge, skills, and attitudes necessary in the provision of nursing care for adults with low to moderate-acuity health problems and behavioral health problems. This course fulfills the Wellness requirement of the Concordia Common Experience curriculum.

Pre-Requisites: Successful completion of Pre-Nursing requirements and admission to the Professional Nursing Sequence.

Co-requisites: All J1 courses.

Co-requisites for readmission: NUR 3336, NUR 3336S, and NUR 3325.

J2 Courses

NUR 3126/S Maternal/Newborn Practicum

This course teaches students the application of the nursing process to provide quality, patient-centered nursing care to meet the physiological and psychological needs of the childbearing family in the hospital setting and during patient scenarios.

Pre-Requisites: Successful completion of all J1 courses.

Co-requisites: All J2 courses.

Co-requisites for readmission: NUR 3126S and NUR 3320.

NUR 3251 Pharmacology for Nurses II

This course is intended to develop the student's ability to critically think by identifying medications for use in treating, whether for cure or maintenance, specific disease processes. The student will be able to identify the correct medication, indications and side effects, research findings and evidence-based nursing practice regarding class, safety, efficacy, and monitoring of medications will be utilized. Additionally, major classifications of drugs; pharmacology and toxicology activity; clinical applications, and the role of the nurse in assessment, intervention, and patient education will be discussed.

Pre-Requisites: Successful completion of all J1 courses.

Co-requisites: All J2 courses.

Co-requisites for readmission: NUR 3386, NUR 3386S, and NUR 3366.

NUR 3320 Maternal/Newborn Theory

This course provides relevant instructional learning experiences of the knowledge, skills, and attitudes necessary in the provision of quality, patient-centered nursing care to meet the physiological and psychological needs of the childbearing family during the antepartum, intrapartum, postpartum and newborn period in a variety of settings.

Pre-Requisites: Successful completion of all J1 courses.

Co-requisites: All J2 courses.

Co-requisites for readmission: NUR 3126 and NUR 3126S.

NUR 3365 Adult Health II Theory

This course teaches the knowledge, skills, and attitudes necessary in the provision of patient-centered nursing care for adults with complex health problems. Emphasis is placed on application of the nursing process and critical thinking utilizing research-based nursing practice in the context of patient centered care for health restoration, health promotion and health maintenance.

Pre-Requisites: Successful completion of all J1 courses.

Co-requisites: All J2 courses.

Co-Requisites for readmission: NUR 3386, NUR 3386S, and NUR 3366.

NUR 3366 Adult Health II Skills

This skills course teaches the knowledge, skills, and attitudes necessary for the application of advanced skills required to care for persons experiencing complex health problems. The course focuses on accuracy and safety of skill demonstration.

Pre-Requisites: Successful completion of all J1 courses.

Co-requisites: All J2 courses.

Co-requisites for readmission: NUR 3386, NUR 3386S, and NUR 3365.

NUR 3386/S Adult Health Nursing II Practicum

This course teaches the clinical application of knowledge, skills, and attitudes necessary to provide safe, high-quality patient-centered care for adults experiencing low- to moderate-acuity medical-surgical and/or behavioral health problems.

Pre-Requisites: Successful completion of all J1 courses.

Co-Requisites: All J2 courses.

Co-requisites for readmission: NUR 3386S, NUR 3365, and NUR 3366.

S1 Courses

NUR 4132/S Child and Family Nursing Practicum

This course incorporates concepts of physical and behavioral health in order to enhance their ability to promote high-quality, safe, family-centered nursing care to pediatric clients and their families within a variety of healthcare settings.

Pre-Requisites: Successful completion of all J2 courses.

Co-requisites: All S1 courses.

Co-requisites for readmission: NUR 4132S and NUR 4332.

NUR 4310 Nursing Research

This course provides an introduction to nursing research and research utilization through evidence-based practice in the clinical practice of nursing. Students will use critical thinking to apply research directly to patient care while learning to formulate clinical questions, search for and identify best evidence, and appraise that evidence for rigor and applicability to clinical problems. Basic principles of scientific inquiry, quantitative and qualitative research methods and research ethics are introduced in the context of clinically relevant research and translated to evidence-based practice.

Pre-Requisites: Successful completion of all J2 courses.

Co-requisites: All S1 courses.

NUR 4332 Child and Family Nursing Theory

This course develops the student's ability to provide family-centered care to children, adolescents, and their families and to participate in strategies to improve the safety and quality of care. Students will incorporate into nursing care the concepts of cognition and behavioral health in order to enhance their ability to promote high-quality, safe, family-centered nursing care to children, adolescents, and their families within a variety of healthcare settings.

Pre-requisites: Successful completion of all J2 courses.

Co-requisites: All S1 courses.

Co-requisites for readmission: NUR 4132 and NUR 4132S.

NUR 4357 Nursing Leadership and Management

This course teaches the leadership and management principles applicable to the professional nurse as a Member of the Profession, Provider of Patient-Centered Care, Patient Safety Advocate and Member of the Health Care Team. Emphasis is placed on the knowledge, judgment, skills and professional values of a nurse leader within a legal/ethical framework.

Pre-Requisites: Successful completion of all J2 courses.

Co-requisites: All S1 courses.

Co-requisites for readmission: NUR 4386 and NUR 4386S.

NUR 4385 Adult Health III Theory

This course teaches the knowledge, skills, and attitudes necessary in the provision of patient-centered nursing care for adults with complex physical and mental health problems. Emphasis is placed on the application of the nursing process and critical thinking utilizing research-based nursing practice in the context of patient centered care for health restoration, health promotion and health maintenance.

Pre-Requisites: Successful completion of all J2 courses.

Co-requisites: All S1 courses.

Co-requisites for readmission: NUR 4386 and NUR 4386S.

NUR 4386/S Adult Health III Practicum

This course teaches the clinical application of knowledge, skills, and attitudes necessary to provide safe, high-quality patient-centered care for adults experiencing moderate-acuity medical-surgical and/or behavioral health problems. This course fulfills the Technology requirement of the

Concordia Common Experience curriculum.

Pre-Requisites: Successful completion of all J2 courses.

Co-requisites: All S1 courses.

Co-requisites for readmission: NUR 4386S and NUR 4385.

S2 Courses

NUR 4160 Community and Global Health Practicum

This course teaches the knowledge, skills, and attitudes necessary in the provision of care for clients with health problems in the community setting.

Pre-Requisites: Successful completion of all S1 courses.

Co-requisites: All S2 courses.

Co-requisites for readmission: NUR 4360 and NUR 4295.

NUR 4280 Transition to Nursing Practice

This course addresses role change from student to practicing registered nurse including team strategies for patient safety as well as concepts related to the nursing jurisprudence examination.

Pre-Requisites: Successful completion of all S1 courses.

Co-requisites: All S2 courses.

Co-requisites for readmission: NUR 4370 and NUR 4295.

NUR 4295 NCLEX Preparation and Review

This course reviews key nursing content with separate, comprehensive units on medical-surgical, child health, childbearing and women's health, and mental health/psychiatric nursing, followed by test questions written in NCLEX exam format.

Pre-Requisites: Successful completion of all S1 courses. Course Fee: \$375

Co-requisites: All S2 courses.

Co-requisites for readmission: NUR 4370.

NUR 4360 Community and Global Health Theory

This course teaches the knowledge, skills, and attitudes necessary in the provision of care for clients with health problems in the community setting.

Pre-Requisites: Successful completion of all S1 courses.

Co-requisites: All S2 courses.

Co-requisites for readmission: NUR 4160.

Co-requisites for readmission: NUR 4160 and NUR 4295.

NUR 4370 Capstone Simulation and Practicum

This course focuses on demonstration of quality and safety when providing care to multiple patients with complex health needs involving multi-system failure. Additionally, leadership, supervision and delegation strategies are emphasized.

Pre-Requisites: Successful completion of all S1 courses.

Co-requisites: All S2 courses.

Co-requisites for readmission: NUR 4389 and NUR 4295.

NUR 4389 Adult Health Nursing IV Theory

This course builds on the knowledge, skills and attitudes necessary to provide patient-centered care nursing care for adults with complex physiologic, psychosocial conditions, and multi-system failure. Emphasis is placed on application of the nursing process and clinical reasoning using evidence-based nursing practice in the context of patient-centered care for health restoration, promotion and maintenance.

Pre-Requisites: Successful completion of all S1 courses.

Co-requisites: All S2 courses.

Co-requisites for readmission: NUR 4370 and NUR 4295.

Nursing Practice (DNP)

NUR 6301 Nursing Theory

This course is designed to provide the essential information needed to understand and apply theory in practice, research, education, and leadership. This course provides a background of what theory is and how it is used in nursing in order to provide a foundation of knowledge for nursing practice.

Pre-Requisites: Admission to the Doctor of Nursing Practice (DNP) Program.

NUR 6302 Introduction to the Doctor of Nursing Practice Role & Scholarly Project

This course provides an introduction to DNP roles and responsibilities as leaders, collaborators, scholars and advocates. DNP role expectations for theory, scholarship and involvement in healthcare policy and advocacy will be discussed along with various DNP roles and professional issues related to the DNP degree.

Pre-Requisites: Admission to the Doctor of Nursing Practice (DNP) Program.

NUR 6303 Academic Writing and Performing a Literature Review

This course focuses on the skills and strategies necessary for articulating concepts and ideas in a scholarly manner. In this course, students will perform a comprehensive literature review, analyzing research and apply APA format and style rules for citing materials.

Pre-Requisites: Admission to the Doctor of Nursing Practice (DNP) Program.

Philosophy

PHL 3301 Survey of Western Philosophy

Issues and problems of philosophy including the nature of reality, knowledge, and value. Selected study of major philosophers in the Western tradition.

Pre-Requisites: None

PHL 3302 Ethics in the Christian Tradition

A study of ethical behavior and norms as developed in the Christian Tradition. Attention is given to philosophical ethical theories, Christian ethical theories, and contemporary personal and moral issues as they related to those theories.

Pre-Requisites: REL 1301 and REL 1311

Physics

PHY 1401 Physics I

Basic concepts of kinematics, dynamics, Newtonian physics, sound, and thermodynamics through lectures, laboratory experiences, and problem solving. Students should be co-enrolled in PHY 1401L.

Pre-Requisites: MTH 1351 with a grade of C or higher, or math placement at a higher level. Course Fee (PHY 1401L): \$85

PHY 1402 Physics II

Basic concepts of electromagnetism, and electromagnetic radiation including optics through lectures, laboratory experiences, and problem solving. Students should be co-enrolled in PHY 1402L.

Pre-Requisites: PHY 1401 or equivalent with a grade of C or higher. Course Fee (PHY 1402L): \$85

PHY 1441 Conceptual Physics

An introductory investigation of the fundamental concepts of physics. Topics include: Linear Motion, Force, Momentum, Energy, Rotational Motion, Gravity, Projectile and Satellite Motion, Solids, Liquids, and Gases. This course has a required laboratory component.

Pre-Requisites: MTH 1351 with a grade of C or higher. Course Fee: \$75

PHY 4301 Topics in Modern Physics

Special relativity, statistical mechanics, the photoelectric effect and quantum physics, and nuclear physics and radioactivity.

Pre-Requisites: PHY 1402 with a grade of C or higher

Political Science

POLS 1303 - American Government and Citizenship

This course encourages students to think about their government with insightful analysis while affirming fundamental concepts. Specifically, this course will focus on the U.S. Constitution and the Bill of Rights and emphasize the benefits, responsibilities and thoughtful perspective necessary for effective citizenship. *Pre-Requisites: None*

POLS 2116/2216- Political Science Practicum

This course provides students with the opportunity to experience mock governance in a competitive or collaborative environment. Students will select a program and fully engage in the required level of preparation, participation, and reflection. Acceptable mock governance programs include, but are not limited to, the following: Model Organization of American States, Moot Court, Texas Civic Ambassadors, Student Governance, Mediation and Academic Conference Presentations. Course can be taken for 1 or 2 credit hours and can be repeated for credit.

Pre-Requisites: None

POLS 2305 Texas State & Local Government

This process-oriented class will focus on state and local governments with an emphasis on Texas. Specifically, this class will utilize field experiences to provide insight into political processes and issue advocacy.

Pre-Requisites: Passage of, or concurrent enrollment in, POLS 1303, or instructor approval.

POLS 2371H - American Politics (Honors)

This course encourages students to examine the role of political institutions, both personally and in society, with an emphasis on the American political experience. In addition to focusing on fundamental concepts of American politics, the course will contain extensive readings and discussions about applicable social, economic, and political topics. *Pre-Requisites: Acceptance into the Honors Program or instructor approval.*

POLS 3003 - Readings in Political Science

In this variable-credit course (1-3 credits) students will work with a faculty member to select a range of required reading materials pertaining to a mutually agreed upon topic. Students will receive credit upon the complete reading of the selected materials, submission of a book review for each and discussion of those readings with the supervising faculty member. *Pre-Requisites: Instructor approval.*

POLS 3321 – Public Policy

This course provides students with the tools for understanding and appreciating modern policy frameworks. With a specific focus on economic and environmental policy, this course will work to develop student understanding the processes, motivations, and forms of agenda setting, policy implementation and policy evaluation.

Pre-Requisites: Passage of, or concurrent enrollment in, POLS 1303 or POLS 2371H.

POLS 3322 – Introduction to Law

Provides a foundational examination of the law and American jurisprudence. Specifically, this course will examine the following areas of the law: torts, family law, property, criminal law, contracts, wills and estates, and legal research.

Pre-Requisites: Passage of, or concurrent enrollment in, POLS 1303 or POLS 2371H.

POLS 3323- Principles of Political Science

Provides a thorough examination of political science as a discipline. The course will focus on providing students the basic structures of general government processes and social science research. Specifically, students will focus on the Political Science sub-disciplines of political process, political theory, international politics, political economy, comparative politics, political culture, political socialization, law, public policy, public administration and political science research methodology.

Pre-Requisites: Passage of, or concurrent enrollment in, POLS 1303 or POLS 2371H.

POLS 3301- Environmental Policy

This course provides an in-depth examination of the politics surrounding conservation and environmentalism. While the specific topics and concepts for this class will evolve, the class will focus on issues pertaining to climate change, land and resource management, resource

conservation, sustainable agriculture, population, sustainable development, and global and national environmental regulations.

Pre-Requisites: Passage of, or concurrent enrollment in, POLS 1303 or POLS 2371H.

POLS 3302- American Constitutional Law

Provides an in-depth examination of the United States Constitution and the decisions of the U.S. Supreme Court. Specifically, this course will examine Constitutional interpretation and how it has shaped American political culture. This course will focus heavily on the historical, political, and analytical aspects associated with stare decisis, jurisprudence, and judicial interpretation in the United States.

Pre-Requisites: Passage of, or concurrent enrollment in, POLS 1303 or POLS 2371H.

POLS 3304- Special Topics in Political Science

Various course concepts and themes will be offered in the area of political science, law, or political economy. Course may be repeated for credit when topics vary.

Pre-Requisites: Passage of, or concurrent enrollment in, POLS 1303 or POLS 2371H.

POLS 3332- American Political Institutions & Processes

Provides a thorough examination of American political institutions, processes and behavior. Specifically, this class will provide an in-depth analysis of the presidency, bureaucracy, Congress, the Supreme Court, state legislatures, elections, pressure groups, and political parties.

Pre-Requisites: Passage of, or concurrent enrollment in, POLS 1303 or POLS 2371H.

POLS 3333- International Relations & Comparative Politics

The focus of this course is the examination of the geopolitical realities and the governance structures of the modern world. Students will be introduced to a variety of global governance topics related to diplomacy, global governance institutions, human rights, cultural dimensions, and the use of hard and soft power.

Pre-Requisites: Passage of, or concurrent enrollment in, POLS 1303 or POLS 2371H.

POLS 3334- Political Philosophies and Ideologies

The focus of this course is to provide an exploratory examination of the philosophical, ideological and theoretical foundations of modern Western political thought. This course will focus on a variety of social and political thinkers including, but not limited to, Plato, Machiavelli, Thomas Hobbes, Jean Jacques Rousseau, John Locke, John Stuart Mill, Adam Smith, Karl Marx, John Rawls and Robert Nozick.

Pre-Requisites: Passage of, or concurrent enrollment in, POLS 1303 or POLS 2371H.

POLS 3335 - Social Science Methods

This course focuses on the use of quantitative and qualitative research methodology that is most commonly utilized by social science practitioners. It will emphasize the use of techniques, and ethical constructs that are typically employed by those working in social science fields. Cross listed with CRIJ 3335.

Pre-Requisites: MTH 2301

POLS 3345 – Rights of the Criminally Accused

This course will focus on the Constitutional rights of individuals who have been accused or convicted of crimes within the United States. Students will be introduced to a broad and critical understanding of American jurisprudence related to the 4th, 5th, 6th, 8th, 13th, and 14th Amendments, relevant case law, and substantive and procedural due process.

Pre-Requisites: Satisfactory completion or concurrent enrollment in POLS 1303, or permission of the instructor.

POLS 4136- Political Science Undergraduate Thesis

Students will work with a faculty member to propose, research, and write and defend a publication-grade research paper. Course may be repeated for credit.

Pre-Requisites: None.

POLS 4335-Political Science Leadership Capstone

This course is intended for upper-level students who are nearing completion of their degree. For this particular course, students will be expected to demonstrate a high level of proficiency in basic fundamental Political Science concepts, understand and articulate research goals through a thesis proposal, learn about leadership from select community change agents, and apply their accumulated knowledge and skill set to solving a designated community problem.

Pre-Requisites: Passage of, or concurrent enrollment in, POLS 1303 or POLS 2371H.

Psychology

PSY 1311 Introduction to Psychology

Scientific study of human behavior with emphasis on basic psychological functions.

Pre-Requisites: None.

PSY 2300 Careers and Vocation in Psychology

This course uses a comprehensive approach to considering careers in psychology through the Lutheran lens of vocation. Guided activities and projects will be used to assist in identifying students' needs, values, wants, interests, and abilities. Opportunities and resources will also be used to explore career paths related to psychology and to identify the skills and experiences required to be competitive in those industries.

Pre-Requisites: PSY 1311

PSY 2301 Life-Span Development

Physical, cognitive, social, emotional and personality development of the individual from "womb to tomb," with the principal focus being on these developmental stages in childhood and adolescence within the context of the complete life span.

Pre-Requisites: PSY 1311

PSY 2302 Human Sexuality & Gender

Social-psychological and developmental aspects of human sexuality. Examples of topics include: courtship, pregnancy and delivery, sexual health, and sex education.

Pre-Requisites: PSY 1311

PSY 2303 Lutheran Ethos and Psychology

Exploration of the relationship between Lutheran ethos and Psychology. Topics will include vocation, servant leadership, and learning as a lifelong pursuit. Personal growth and fulfillment will be emphasized.

Pre-Requisites: PSY 1311 and REL 1301

PSY 2305 Scientific Writing in Behavioral Sciences

Introduction to scientific writing in the behavioral sciences, with specific emphasis on written communication of academically rigorous original research. Topics covered include journal article structure, APA format, and peer review.

Pre-Requisites: PSY 1311 or SOC 1301

PSY 2341 Statistics for the Behavioral Sciences

An introduction to the fundamentals of descriptive and inferential statistics, especially as they apply to the behavioral and social sciences. Cross-listed as SOC 2341.

Pre-Requisites: PSY 1311 or SOC 1301

PSY 2391 Research Methods in the Behavioral Sciences

Methods and approaches to research in the behavioral and social sciences. Cross-listed as SOC 2391.

Pre-Requisites: PSY/SOC 2341

PSY 3302 Cognitive Psychology

A comprehensive overview of the many facets of cognitive psychology including information processing, the complexities of memory, language acquisition and functions, problem solving and decision making, and basic neurology. Also includes an overview of learning theories with a more in-depth look at the principal ones.

Pre-Requisites: PSY 1311

PSY 3303 Neuropsychology

Biological and cognitive aspects of neuropathological conditions, including relevant brain/behavior relationships. Introduction to neuropsychological assessment.

Pre-Requisites: PSY 1311

PSY 3304 Group Dynamics

Theory and practice in small group communication; goal setting, problem solving, listening, feedback, and leadership. As part of the course experience, students will plan an off-campus trip with additional costs to student. Cross-listed as COM 3304.

Pre-Requisites: PSY 1311

PSY 3305 Learning and Memory

Explores principles of conditioning and motivation; approaches to learning, including acquisition of verbal materials, concepts, and motor skills. Explores processes underlying information storage and retrieval, including different kinds of memory, forgetting, and conditions associated with memory impairment.

Pre-Requisites: PSY 1311

PSY 3306 Sensation & Perception

An introductory survey of the human senses and their role in perception, considering how we sense the physical environment and what factors influence our perception of it. Integrates theory, research, and application.

Pre-Requisites: PSY 1311

PSY 3312 Criminal Profiling

Exposes the student to the distressful, painful and often devastating effects of maladaptive behavior. The course will explore the interwoven biological, psychological and social antecedents and correlates of criminal behavior. Psychological issues and their relation to criminal and anti-social behavior will be studied. Personal and societal attitudes, feelings and values about criminal and anti-social behavior will be discussed extensively. Cross-listed as CRIJ 3312.

Pre-Requisites: PSY 1311

PSY 3315 History & Philosophy of Psychology

This course studies and examines the development of psychology from its early roots in philosophy and religion, through its empirical bases, to its direction in today's society. The aim is to discover what relationships, if any, there are between psychology and justice. This course may replace three hours of social/behavioral sciences, if at least one course is not already designated in the major.

Pre-Requisites: PSY 1311

PSY 3325 Interpersonal Relationships

Investigation into the communication and psychology of family dynamics, friendships, and romantic partners. One goal of this course will be to understand our own relationships and seek to improve them. In addition, students will examine relationship styles different from our own experiences in order to broaden our knowledge of relationship theories, practices, and cultural variations. Cross listed with COM 3325.

Pre-Requisites: PSY 1311 or permission of instructor

PSY 3330 Social Psychology

Examination of cultural and psychological influences in the development of individuals and societies. Cross-listed as SOC 3330.

Pre-Requisites: PSY 1311 and SOC 1301

PSY 3334 Exercise and Sports Psychology

This class covers the psychological aspects of movement activities that underline performance. It also covers the intrinsic and extrinsic factors that must be recognized in order to understand, motivate, and evaluate human movement. Cross listed with KIN 3334. Note: Does NOT count for core physical education requirements.

Pre-Requisites: PSY 1311

PSY 3331 Introduction to Counseling Skills

An introductory course designed to acquaint students with current counseling theories and to acquire a beginning skill in counseling.

Pre-Requisites: None

PSY 3332 Personality Theories

Applicability of major personality theories to understanding human behavior.

Pre-Requisites: PSY 1311

PSY 3335 Health Psychology

Investigation of how biological, psychological, and social factors relate to disease states, illness, and stress.

Pre-Requisites: PSY 1311

PSY 3341 Abnormal Psychology

Psychological abnormality, including anxiety, somatoform, obsessive-compulsive, and dissociative disorders; psychoses, mental retardation, brain dysfunction, sexual deviance, and other maladaptive behaviors.

Pre-Requisites: PSY 1311

PSY 3350 Biopsychology

An introduction to the structure and function of the nervous system and the relationship between psychological processes and the brain in humans and other animals. Cross-listed with BIO 3350.

Pre-Requisites:

PSY 3406 Animal Behavior

An introduction to the study of animal behavior. Cross-listed as BIO 3406.

Pre-Requisites: Any 3 or 4 academic hour course which fulfills a portion of the Natural Science Core requirement with a grade of "C" or above. Course Fee: \$75

PSY 4310 Behavioral Sciences Internship

Supervised on-the-job experience and involvement at one of Austin's agencies/companies. Interns will work with professional in the intern's field of specialization. A senior level course for Behavioral Science majors only. Graded Pass/Not Pass. Fulfills Experiential Learning requirement.

Pre-Requisites: Senior standing, 3.0 GPA, 2.5 cumulative GPA, 18 credit hours of lower level and 9 credit hours of upper level work in the major.

PSY 4360 Topics in Behavioral Sciences

A seminar-style examination, discussion, and analysis of specific issue, population, theoretical approach, or person(s) studied in the Behavioral Sciences. The focus of the seminar may be from a Psychological or Sociological perspective, or a combination of the two disciplines. Students may repeat this course when the topic changes. Cross listed with SOC 4360

Pre-Requisites: 6 hours of upper-level hours in the Behavioral Sciences or by consent of the instructor.

Public Health (Undergraduate)

PUBH 1303 Intro to Population Health

This course introduces students to the study of population health and what it means to live a long and healthy life. It includes examining the factors that can influence health and wellness as well as the various fields all connected to health. The course is interdisciplinary. It covers a broad range of

issues including health communication, environmental health, infectious diseases, social health, and how to improve your community as well as your own life. This is an exciting eye-opening course that any student interested in his/her well-being or the well-being of others can take. Cross-listed with BADM 1303.

Pre-Requisites: None

PUBH 3314 Essentials: Global Public Health

Examines the main functions of public health; disease prevention and health promotion. Students will learn the history and philosophy of public health, its core values and functions across the globe and in society. Students will examine the factors that impact health and how productivity is influenced by health outcomes since prevention is more cost effective than cure. Students will learn about working in both clinical care settings as well as institutions that promote population health. Case studies will be used. Cross-listed with BADM 3314.

Pre-Requisites: Recommended Sophomore level standing

PUBH 3315 Comparative Health Care System

Examines the healthcare delivery system of the United States, its fundamental characteristics and organization as well as differences in the healthcare systems of other countries. Students will learn about the various agencies involved in health and access to healthcare will be reviewed. Students will have a better understanding of the composition of health workers in the United States and other countries. Innovative technologies and best practices will be studied. Cross-listed with BADM 3315.

Pre-Requisites: Recommended Sophomore level standing

PUBH 3323 Globalization, Trade, Health Policy

Examines the increasing interdependence of the world with greater connectivity affecting the speed of access to information. Key focus will be on the dimensions of globalization including trade in food, pharmaceutical products, tobacco as well as healthcare personnel and the shift in patterns of disease. Case studies will be used. Cross-listed with BADM 3323.

Pre-Requisites: Recommended Sophomore level standing

PUBH 3370 Health Communication

A fascinating study of communication in the field of health; focusing on the origins and theories of health communication, and exploration of the complexities inherent in both verbal and nonverbal communication, and health messaging. Additional focus will be on several contemporary areas within the field of health communication research and practice. Cross-listed as COM 3370.

Pre-Requisites: Recommended Sophomore level standing

PUBH 4319 Immigration, Violence, Disaster and Health

Issues that impact vulnerable populations in the United States and other countries including the socioeconomic, behavioral, biological, environmental and other factors that impact human health and contribute to health disparities. Immigration, the impact of violence, natural and man-made disasters, terrorism and the organizations that respond to these issues will be examined. Cross-listed with BADM 4319.

Pre-Requisites: Recommended Sophomore level standing

PUBH 4321 Public Health Organizations, Ethics & Law

Examines public health organizations that are local, national and international in focus, how they operate and the role they play in promoting health and preventing disease as well as those organizations not typically associated with health such as the United Nations, World Trade Organization, the Bill and Melinda Gates Foundation and Dell. Cross-listed with BADM 4321.

Pre-Requisites: None

PUBH 4302 Global Public Health Practicum

Students will be engaged in internships in organizations in the United States with a health focus (healthcare delivery or population health); or organizations that are regional or international in scope that promote global health. In the future opportunities for internships will be created for practical experiences working in other countries and in select international organizations (public and private). Fulfills experiential learning

Pre-Requisites: Course to be taken in the last year of program using Concordia's internship guidelines

PUBH 4398 Program Management & Health Evaluation (capstone)

Examines health programs and the use of evidence to support the practice of health. Using theories and case studies examined in the Healthcare concentration, students will complete a critical analysis of the public health program of choice integrating lessons learned, best practices and the theories studied. Cross-listed with BADM 4398.

Pre-Requisites: None

Reading

RDG 3311 Foundations of Literacy

This course offers an overview of the theoretical foundations of reading and writing instruction. It includes developing an understanding of the five components of an effective reading program (phonemic awareness, phonics, fluency, vocabulary, and comprehension), reading strategies, and the Texas Essential Knowledge and Skills (TEKS) to understand the importance of a successful reading program in early childhood through grade twelve.

Pre-Requisites: None

RDG 3326 Emergent Literacy and Language in Primary Grades

This course focuses on developing literacy (speaking, listening, writing, and viewing) in primary grade elementary classrooms. Students will be expected to critically examine and reflect on ways in which teachers can provide the environment and experiences needed to promote literacy, development and learning of diverse children in inclusive classrooms.

Pre-Requisites: Admission to the Teacher Education Program and RDG 3311

RDG 3342 Disciplinary Literacy

In this course content education students deepen their understanding of the literacy demands (listening, speaking, reading and writing) associated with their future teaching disciplines. Students also develop skills for identifying the literacy demands required to complete a lesson and teaching those skills along with the content. 45 hours of fieldwork is required. Fulfills Experiential Learning

requirement

Pre-Requisites: Admission to the Teacher Education Program

RDG 4327 Literary and Language in the Intermediate Grades

This course focuses on appropriate methods of designing and implementing literacy instruction for students in the intermediate grades (3-8) based on the science of teaching reading. Students will observe, design, implement, and reflect on literacy lessons based on theory and research validated strategies for diverse learners. This course requires fieldwork.

Pre-Requisites: Admission to the Teacher Education Program and RDG 3326.

Religion

REL 1301 New Testament History and Reading

The background, growth and content of the New Testament. Sources and chronology of the Apostolic Age and Early Jewish Christianity.

Pre-Requisites: None

REL 1311 History and Literature of the Old Testament

A literary-historical interpretation of the Old Testament, with special emphasis on its religious significance.

Pre-Requisites: None

REL 1331 Introduction to Christianity

An introduction to the historical background, sources, literature, and basic beliefs of the Christian tradition. Intended for students with little or no background in the knowledge and experience of the Christian faith. This course may not be taken by any student who has earned more than 3 credit hours in religion. (Students seeking certification by Concordia University Texas for professional work in The Lutheran Church-Missouri Synod must satisfy all religion credit requirements by means other than this course).

Pre-Requisites: None

REL 3302 Luke-Acts

Study of the two-volume work of Luke stressing the growth of the church.

Pre-Requisites: REL 1301 and REL 1311

REL 3303 Major Pauline Epistles

Examination of major Pauline Epistles. Emphasis on theological perspective these contributed to the Apostolic Church and Protestant Reformation.

Pre-Requisites: REL 1301 and REL 1311.

REL 3305 Law, Justice and Grace in the Biblical Perspective

This course exposes students to the biblical concepts of law, justice, grace and the role of religion in modern American law. Students will read and discuss biblical passages dealing with the divine role of civil government, the law of God, civil disobedience, the death penalty, and the place of grace in a Christian's life. The course will also focus on freedom of religion and the proper roles of church

and state.

Pre-Requisites: REL 1301 and REL 1311.

REL 3312 Wisdom Literature

A study of Israelite wisdom writings, especially the books of Job, Ecclesiastes and Proverbs, and the application of their themes to contemporary issues.

Pre-Requisites: REL 1301 and REL 1311.

REL 3313 Major Prophets: Isaiah

The interpretation of the prophecies of the Book of Isaiah with attention to historical events, literary style, and ancient and modern religious significance.

Pre-Requisites: REL 1301 and REL 1311.

REL 3333 Introduction to Christian Ethics 3,0

A study of ethical behavior and norms provided by the Christian faith. Attention given to both Christian ethical theory and contemporary personal and moral issues.

Pre-Requisites: REL 1301 and REL 1311.

REL 3335 Christian Apologetics

This course will survey the nature, objectives, and significance of presenting a viable defense of the Christian faith against objections of the major philosophies and ideologies that conflict with the faith in this "post Christian" and "post-modern" age.

Pre-Requisites: REL 1301 and REL 1311.

REL 3341 Lutheran Doctrine

The main purpose of this course will be to explore the foundational doctrinal teachings that have shaped Lutheran traditions, beliefs and life. In our attempt to understand what Lutheran Christians have historically believed, taught and confessed, we will also seek to apply Lutheran theological commitments to specific theological debates in contemporary Christianity. Moreover, we will explore how Lutheran doctrinal beliefs remain important resources for contemporary and ecumenical theological understanding, for ministry, for preaching, for teaching.

Pre-Requisites: REL 1301 and REL 1311.

REL 3342 Lutheran Confessions

A study of the history and content of the Lutheran confessional documents contained in the Book of Concord.

Pre-Requisites: REL 1301 and REL 1311.

REL 3345 Theology of Worship

In this course, students will consider the biblical, philosophical, historical and cultural influences on Christian worship. Throughout the course, students will study the participation in and leadership of Christian worship from a variety of perspectives.

Pre-Requisites: REL 1301 or REL 1311.

REL 3346 A Christian View of Nature

An examination of Biblical passages about the natural world and discussion of related theological issues.

Pre-Requisites: REL 1301 and REL 1311; plus junior standing or permission of instructor.

REL 3352 History and Philosophy of the Reformation

History, philosophy, theology, and literature of the Protestant Reformation.

Pre-Requisites: REL 1301 and REL 1311

REL 3353 American Christianity

A study of the major denominations within American Christianity.

Pre-Requisites: REL 1301 and REL 1311.

REL 3354 History of Christianity

An overview of the history of Christianity from the New Testament era to the present. The course will focus on the central persons, ideas, issues, and events that have shaped the Christian Church and its worship, doctrine, ethics, organization, and mission. Cross-listed as HIS 3354.

Pre-Requisites: REL 1301 and REL 1311.

REL 3355 History of Christian Mission

The course will cover the historical expansion of the Christian church and its impact on societies around the world. The course will examine the theology, culture, politics and methods of mission efforts beginning with the Acts of the Apostles.

Pre-Requisites: REL 1301 and REL 1311.

REL 3361 The Writings of C. S. Lewis

Studies the life, the works, the literary criticism, the themes, and the thought of C.S. Lewis, with attention to the various literary genres within which Lewis wrote. This course is also available online.

Pre-Requisites: REL 1301 and REL 1311.

REL 3362 Narnia Meets Middle Earth

This course offers a close look at the impact of such authors as Joseph Campbell, C.S. Lewis, J.R.R. Tolkien, J.K. Rowling, and the Scriptures upon the world of religion, imaginative literature, communication, and our way of life by studying the role of imagination and myth.

Pre-Requisites: REL 1301 and REL 1311.

REL 3381 Major World Religions

Introduction to the history, faith, and culture of the major non-Christian religions of the modern world, including Islam, Judaism, Hinduism, and Buddhism, with brief attention to minor religions and non-theistic religion.

Pre-Requisites: REL 1301 and REL 1311.

Religious Education

REDU 1111 Spiritual Disciplines I

This course will assist students in their spiritual life through an exploration of the spiritual disciplines and an integration of truth into life as it pertains to their current lives as students preparing for full-time ministry. (To be taken freshman year)

Pre-Requisites: None. Course Fee: \$75

REDU 1112 Spiritual Disciplines II

This course will assist students in their spiritual life through an exploration of the spiritual disciplines and an integration of truth into life as it pertains to their transition from college life to full-time ministry. (To be taken senior year)

Pre-Requisites: REDU 1111

REDU 2220 Introduction to DCE Ministry

This course examines the ministry of the DCE within the context of the Lutheran Church --Missouri Synod so students can make personal evaluations of their appropriateness for this ministry.

Pre-Requisites: None

REDU 2350 Curriculum & Methods in Religious Education

This course focuses on the educational ministry of the local church with attention to writing, evaluating, and teaching Bible studies as well as organizing a comprehensive plan for Biblical discipleship.

Pre-Requisites: None

REDU 3230 Leading Contemporary Worship

This course examines contemporary expressions of worship, and prepares DCEs to lead congregations into these forms of worship expression. Cross-Listed as MUS 3230

Pre-Requisites: None

REDU 3232 Outdoor Christian Ministry

This course seeks to examine the historical and contemporary purposes and formats of Outdoor Christian Education. Students will be equipped with the skills needed to implement an effective Outdoor Christian Education program in a congregational or school setting. This is a one-week intensive course taught in a camp setting, and includes a course fee (amount variable).

Pre-Requisites: None. Course Fee: \$400

REDU 3240 Missional Leadership

Students will gain knowledge of the latest theories and trends of missionaries and missional living. This class will also provide training in how to plan, budget, manage, execute and evaluate a short term mission trip, and how to turn short term trips into long term experiences.

Pre-Requisites: None. Course Fee: \$300

REDU 3250 Christian Witness and Evangelism

This course introduces students to the theology and practice of Christian evangelism. Skills in speaking the Gospel to others will be developed.

Pre-Requisites: None

REDU 3310 Youth Ministry

This class provides basic knowledge of parish youth ministry, knowledge of the curricula and resources available in youth ministry, and an opportunity to develop and observe models and styles appropriate in parish youth ministry.

Pre-Requisites: None

REDU 3311 Cultural Influences on Youth Ministry

This course will focus on the cultural context of teenagers in America. Students will be viewing the American teenager's world of popular culture and societal norms as a missionary views a modern culture.

Pre-Requisites: None

REDU 3313 Special Topics in Youth Ministry

This course will introduce theories on ways to minister to youth through some of the current hot issues in youth culture, such as: sexuality, addiction, abuse, etc. May be repeated for credit when topics vary. Students are limited to 9 hours of special topics courses.

Pre-Requisites: REDU 3310

REDU 3315 Confirmation Planning and Implementation

This course will review and assess the purposes, history, and structure of confirmation in the Lutheran Church for the purpose of structuring and outlining implementation strategies for use in a local congregation. Adult and junior confirmation programs will be considered.

Pre-Requisites: None

REDU 3316 Leadership & Administration in Children's Ministry

This course examines the many facets of the administrative process within the context of a staff ministry position to children and families. Staff relations, recruiting, the integration of children's and family ministry into the greater church body and leadership will be addressed. Evaluation of curriculum, facilities, policies, and procedures will also be addressed.

Pre-Requisites: REDU 3317

REDU 3317 Children's Ministry

This course will introduce theories related to children that will assist in developing an integrated ministry to children in a congregational setting. The five major sections of the course include development of the child; learning theories; the content of the child's learning in the church; planning, administration, and implementing a comprehensive ministry to children; and resources, activities and environments for children's ministry.

Pre-Requisites: None

REDU 3319 Middle School Ministry

This course will introduce theories related to pre-adolescents, specifically 5th through 8th grade that will help in developing specific ministries for this age group in a parish setting. Knowledge of age appropriate curriculum, activities and ministry will be provided as well as compared and contrasted to children's and High School ministry.

Pre-Requisites: None

REDU 3320 Parish Administration

An introduction to and exploration of the theory and processes associated with the administration of parish educational programs. Special emphasis is placed on idea generating; initiating change; promotion; evaluation; use of technology; budget; office and time management; managing volunteers; and legal issues relating to the responsibilities of the DCE in the parish.

Pre-Requisites: None

REDU 3330 Family Ministry

This class gives students a look at family structures and will help show the importance of solid family ministry in the context of children and youth ministry.

Pre-Requisites: None

REDU 3340 Adult Education in the Parish

This class focuses on adult learning theory, faith development and andragogy as it relates to the planning of effective adult education programs in a local congregation.

Pre-Requisites: None

REDU 3345 Emergent Theory

This course will go over the basic understandings, purposes, reactions and history of Emergent movement and discuss the positives and negatives in a Lutheran context. The concepts of postmodernism, post-Christianity and post-scalas will be evaluated, discussed and connected.

Pre-Requisites: None

REDU 3198 National/International Studies: Mission Trip

Students will participate in and share leadership responsibilities for a 1-2 week short-term mission trip experience. May be repeated for credit. Students are limited to 9 hours of mission trip courses. Fulfills Experiential Learning requirement.

Pre-Requisites: None.

REDU 4210 DCE Practicum I

This course provides opportunities for students to gain meaningful insights and understandings of the congregational structure and organization of education and youth ministries. Fulfills Experiential Learning requirement

Pre-Requisites: None. Course Fee: \$75

REDU 4211 DCE Practicum II

This course allows students to become involved in leadership activities of the education and youth ministries of the congregation. Fulfills Experiential Learning requirement

Pre-Requisites: None. Course Fee: \$75

REDU 41210 DCE Internship I

This class is a directed and supervised, academic three-month to one-year training program. It enables students to experience many aspects of the educational ministries in a congregation as possible. These include part-time instructional agencies, youth work, family life, adult education, counseling, evangelism and church music. Course graded on a Pass/Fail basis. Fulfills Experiential Learning requirement

Pre-Requisites: None. Course Fee: \$1000

REDU 41211 DCE Internship II

This class is a directed and supervised, academic three-month to one-year training program. It enables students to experience many aspects of the educational ministries in a congregation as possible. These include part-time instructional agencies, youth work, family life, adult education, counseling, evangelism and church music. Course Graded on a Pass/Fail basis. Fulfills Experiential Learning requirement

Pre-Requisites: REDU 41210. Course Fee: \$1000

Science

SCI 1402 Introduction to Astronomy

A study of the solar system, the Sun, stars, galaxies and the Universe. Descriptive and observational astronomy are stressed. This course has a required laboratory component. Students who have credit for a higher-level Astronomy course may not take this course for credit. Students must enroll in co-requisite SCI 1402L lab course.

Pre-Requisites: Placement at lower college entry mathematics or higher or successful completion of MTH 0320. Course Fee (SCI 1402L): \$85

SCI 3301 Astronomy

A study of the stars, the solar system, planets, satellites, and galaxies. Descriptive and observational astronomy are stressed.

Pre-Requisites: MTH 1323 Quantitative Literacy or higher

SCI 3303 Geology and Ecology : Southwestern U.S.

A field study of major landforms and wildlife associated with the desert Southwest. This course emphasizes recognition of depositional and erosional features, identification of wildlife, and the interactions between biotic and abiotic components of desert ecosystems. Also includes a study of environmental concerns and conservation efforts in the deserts of the Southwest. Offered during Spring Break and/or summer and requires extensive physical exertion and "roughing it." Additional fee for course paid at the time of registration. Fulfills Experiential Learning requirement.

Pre-Requisites: Consent of instructor. Course Fee: \$650

SCI 3304 Geology and Ecology of Hawaii

A field study of volcanism and the biological and physical factors which have influenced the ecological development of the Hawaiian Islands. This course emphasizes recognition of geologic features, wildlife identification, and a study of environmental concerns and conservation efforts in Hawaii. Offered during Spring Break and/or summer and requires extensive physical exertion and

"roughing it." Additional fee for course paid at time of registration. Fulfills Experiential Learning requirement.

Pre-Requisites: Consent of instructor.

SCI 3307 Geology and Ecology of Texas

A field study of the geology and ecology of selected ecoregions in Texas, including the biological and physical factors which have influenced the development of different ecoregions in Texas. The course emphasizes application of ecological concepts to the field, recognition of geological features, wildlife identification, and a study of environmental concerns. Requires good physical condition due to strenuous hiking activity. Fulfills Experiential Learning requirement. *Pre-Requisites: Consent of instructor.*

SCI 4310 Natural Science Research Project

Students will plan, execute, and report on a research project under the supervision of a Natural Science faculty member. A senior level course for natural science majors and environmental science majors; graded on a Pass/Fail basis. Instructor approval required for registration. May be repeated once for credit.

Pre-Requisites: Approval of Natural Science faculty instructor. Course Fee: \$75

Sociology

SOC 1301 Introduction to Sociology

Application of sociological analysis and concepts to American society. Fulfills Experiential Learning requirement.

Pre-Requisites: None

SOC 2306 Race and Ethnic Relations

Emphasis on race and ethnic relations as a national concern with emphasis on these concerns in the Southwest. Cross-listed as HIS 2306.

Pre-Requisites: SOC 1301 or HIS 1301 or HIS 1302

SOC 2341 Statistics for the Behavioral Sciences

An introduction to the fundamentals of descriptive and inferential statistics, especially as they apply to the behavioral and social sciences. Cross-listed as PSY 2341.

Pre-Requisites: PSY 1311 or SOC 1301

SOC 2391 Research Methods in the Behavioral Sciences

Methods and approaches to research in the behavioral and social sciences. Cross-listed as PSY 2391

Pre-Requisites: PSY 2341 or SOC 2341.

SOC 3301 Urbanization (Demography)

City development especially in the United States and examination of the social implications of urbanization.

Pre-Requisites: SOC 1301

SOC 3302 Marriage and Family

Study and analysis of dating, marriage and the family in North America.

Pre-Requisites: SOC 1301

SOC 3303 Social Gerontology

Study and analysis of aging in the United States; secondary reference to the elderly in selected countries of the world.

Pre-Requisites: SOC 1301

SOC 3304 History & Culture: Mexican American

An analysis of the history and culture of the Mexican American people. Cross-listed as HIS 3304.

Pre-Requisites: Three credit hours of history or SOC 1301

SOC 3305 Introduction to Social Work

An introduction to the field of social work, which includes an examination of the nature of professional social work, the diverse career opportunities for social workers, the historical development of the profession, and the values and ethics that shape the profession.

Pre-Requisites: SOC 1301

SOC 3306 Social Welfare and Social Policy

Examination of social welfare policy, including the purposes of social welfare and the most important social welfare programs addressing major social problems. Attention will also be given to the significance of social, economic, and political factors that influence policymaking and implementation.

Pre-Requisites: SOC 1301.

SOC 3307 Social Inequality: Class, Status, and Power

An analysis of the ways that societies are unequal in their distributions of wealth, power, and prestige, including an examination of inequality related to social class, race, ethnicity, and gender as well as a study of mobility and institutions that inhibit or enhance mobility. The course also explores contemporary manifestations of social inequality as well as historical and theoretical understandings.

Pre-Requisites: SOC 1301

SOC 3308 Sociology of Sport

Sports, similar to other institutions throughout the world, can be viewed as socially constructed and therefore a product of society. The sociology of sport is the predominate approaches to understanding how sport is developed, maintained, and influential to society.

Pre-Requisites: SOC 1301

SOC 3311 Criminology and Crime

The examination of crime, criminals, corrections, and community response; criminology theories and correctional systems. Cross-listed as CRIJ 3311.

Pre-Requisites: SOC 1301

SOC 3321 Sociological Theory

An examination of both historical and contemporary sociological theories.

Pre-Requisites: SOC 1301, 6 additional credit hours in Sociology and Behavioral Sciences, upper level standing.

SOC 3330 Social Psychology

Examination of cultural and psychological influences in the development of individuals and societies. Cross-listed as PSY 3330.

Pre-Requisites: PSY 1311 and SOC 1301

SOC 3331 Sociology of Children and Childhood

Examination and analysis of the concepts, theories, and empirical research in the sociological study of children and childhood with a focus on the social construction of the perception of children and of childhood as a distinct life stage; the process of socialization; and the social problems facing children. Although the emphasis will be on children in U.S. society, a global perspective will also be used to explore the diversity of children's experiences across societies.

Pre-Requisites: SOC 1301

SOC 4310 Behavioral Sciences Internship

Supervised on-the-job experience and involvement at one of Austin's agencies/companies. Interns will work with professional in the intern's field of specialization. A senior level course for Behavioral Science majors only. Graded Pass/No Pass. Fulfills Experiential Learning requirement. Cross-listed with PSY 4310

Pre-Requisites: Senior standing, 3.0 GPA, 2.5 cumulative GPA, 18 credit hours of lower level and 9 credit hours of upper level work in the major.

SOC 4360 Topics in Behavioral Sciences

A seminar-style examination, discussion, and analysis of specific issue, population, theoretical approach, or person(s) studied in the Behavioral Sciences. The focus of the seminar may be from a Psychological or Sociological perspective, or a combination of the two disciplines. Students may repeat this course when the topic changes. Cross-listed with PSY 4360.

Pre-Requisites: 6 hours of upper-level hours in the Behavioral Sciences or by consent of the instructor.

Spanish

SPN 1401 Spanish I

Introductory Spanish imparts communication skills for daily use in these areas: listening, speaking, reading, and writing. Instruction emphasizes linguistic and cultural accuracy.

Pre-Requisites: None.

SPN 1402 Spanish II

Continued introductory Spanish imparts further communication skills for daily use in these areas: listening, speaking, reading, and writing. Instruction emphasizes linguistic and cultural accuracy.

Pre-Requisites: SPN 1401

SPN 2301 Medical Spanish for Healthcare Workers

Medical Spanish imparts conversational vocabulary for healthcare settings; also, cultural awareness of Spanish-speaking populations.

Pre-Requisites: None

SPN 2311 Spanish III

Intermediate Spanish imparts advanced communication skills for daily use in these areas: listening, speaking, reading, and writing. It further offers advanced skills in linguistic and cultural accuracy.

Pre-Requisites: SPN 1402.

SPN 2312 Spanish IV

Continued intermediate Spanish imparts advanced communication skills for daily use in these areas: listening, speaking, reading, and writing. It offers high-level skills in linguistic and cultural accuracy.

Pre-Requisites: SPN 2311.

Sports Administration (M.Ed.)

SPAD 5301 Critical Issues/Events in Sports

Studies contemporary administrative, social, and ethical issues in American sports through a historical lens. Students will read about and discuss the historical roots of sports violence, doping, amateurism, sports as builders of nations and character, the relationship between sports and race and gender, and the relationship between sports and the media.

Pre-Requisites: None

SPAD 5303 Finance

Reviews the management of finances in administering a sports program, event or facility and seeks to develop administrators who will act with integrity, fairness, and competence in dealing with budget formation and compliance, revenue source identification, and expenditure allocations.

Pre-Requisites: None

SPAD 5304 Facilities/Event Planning

Explores the details of planning and implementing various sports-related events while also making the best use of available facilities and space.

Pre-Requisites: None

SPAD 5305 Media/Marketing

Explores the use of various media and techniques to market sports to a wide variety of consumers. It discusses factors which affect consumer behavior, tools to understand consumers, branding, and the implementation of effective marketing programs.

Pre-Requisites: None

SPAD 5310 Organizational Behavior in Sports

This course explores the multidimensional aspect of individuals' behaviors and roles within the context of sport's group dynamics. Study includes motivational strategies, personality traits,

communication techniques, and team climate which lead to team cohesion and success.

Pre-Requisites: None

SPAD 5311 Legal Aspects of Sports

The course surveys the multitude of regulations and legal developments relating to interscholastic, intercollegiate, and professional athletics. Included are issues relating to gender equity (Title IX), individuals with special needs (Individuals with Disabilities Act, Section 504, Americans with Disabilities Act), and tort actions (negligence, assault, hazing, defamation).

Pre-Requisites: None

SPAD 5331 Principles of Coaching

Introduction to coaching including philosophy, self-evaluation, ethical behavior, communication skills, coaching techniques, management, safety concerns, teaching sport specific skills and developing physical and psychological conditioning for competition.

Pre-Requisites: None

SPAD 5333 Practicum in Coaching

This practicum provides students with the opportunity to apply the cumulative knowledge and skills in the SPAD program to a real-world work environment. The internship involves the following steps: 1) selecting a work site; 2) developing a contract that ensures both employer and student benefit; 3) fulfilling the contract activity through ongoing work; and 4) preparing a paper that summarizes the learning experience and outcomes. The expectation is for a minimum of hours completed in this internship.

Pre-Requisites: None. Course Fee: \$75

Theatre

THEA 1301 Experience of Drama

This course examines the play's journey from page to stage. Appropriate for both beginning and advanced theatre students, the class will meet twice a week. The first class session each week will include script and production analysis, delivered through lecture, presentations, and class-discussion. The other sessions will be spent attending theatrical performances, often including a talk-back with production personnel. May be repeated for credit. May be used to fulfill all or a portion of the Fine Arts requirement.

Pre-Requisites: None. Course Fee: \$75

THEA 1315 Script Analysis

In this class, students will develop skills in examining scripts for production. Each student will be provided with a method of playscript analysis based upon attention to fundamentals of action, structure, and character. Students will be exposed to multiple resources for script analysis in order to develop their own analytical style and skills.

Pre-Requisites: None.

THEA 1320 Stagecrafts I: Lighting, Set, and Sound

This is an introductory course in theatrical stagecraft, lighting, and sound, designed to introduce the students to the basic principles of the scenic construction process, lighting and sound technology, use of materials and tools, and shop techniques and principles.

Pre-Requisites: None.

THEA 1321 Stagecrafts II: Costumes and Make-Up

This is a practical course in techniques, skills, research, and preparation related to theatrical costuming and make-up. Students will complete several projects, covering hand and machine sewing, cutting, fabric identification, simple alterations and costume crafts, as well as make-up design and application.

Pre-Requisites: None. Course Fee: \$70.

THEA 3X21 Theatre Practicum

The purpose of this experiential course is for students to learn theatre by doing theatre, in any and all of its aspects. Students are presented with the opportunity to practice professional, organizational, and collaborative skills, culminating in a fully-mounted theatre production. Roles and responsibilities range widely and might include acting, stage management, house management, board operations, dramaturgy, design, publicity, and assignments on various production crews, depending on student aptitude, interest, and disposition. Therefore, the course is offered for variable credit (1-3 credits), determined by the hours required for the student's specific role. This course is offered every semester and may be repeated twice (total of three) for credit.

Pre-Requisites: Permission of the instructor.

THEA 2315 Rendering and Model-Building

In this course, students will develop concrete skills for rendering concepts onto paper and building models to visually represent exact designs in scaled forms. Students will explore rendering techniques as an expression of design across many media such as colored pencil, ink, watercolor, gouache, and acrylic. Students will also develop varied levels of model making, including the simple and functional white model, the fully realized color and texture accurate scenic model, and 3D models generated with computer aided design. *Pre-Requisites: THEA 1320 and THEA 1321, or permission of the instructor.*

THEA 2316 Stage Management

In this course, students will gain a greater understanding of stage management methods and practices, as well as furthering the understanding of stage management in relation to production as a whole. Particular focus will be given to organization, leadership, and communication skills necessary to contribute to the production process as a stage manager.

Pre-Requisites: THEA 1320 or permission of the instructor.

THEA 2322 Theatre for Social Change

Due to the unique power of the immediate moment of interaction between audience and performer, theatre has tremendous potential as a tool for social change. This course will examine the theories and methods of theatre for social change throughout the 20th century. We will examine a wide array of international topics, including agit-prop theatre, radical street performance, Theatre of the Oppressed, theatre in prisons, and the use of theatre in the church. May be used to fulfill all or a

portion of the Fine Arts requirement.

Pre-Requisites: None.

THEA 2323 Voice and Movement

This course introduces students to the fundamentals of movement and voice training for dance and theatre. Students gain skills to improve their physical awareness, body alignment, and movement and vocal range. Through practical, hands-on work, the class teaches an in-depth understanding of the effects of habit on body, mind, and voice and how to learn effective ways to release habitual tensions, experiencing the voice beginning to open and connect to authentic impulse. By participating in studio explorations and solo performances, students are introduced to the principles of physical performance, character transformation, and ensemble kinetic relationships.

Pre-Requisites: None.

THEA 3311 Theatre History I

This course investigates the development of world theatre from antiquity through the 18th century. It includes a consideration of plays, playwrights, actors, audiences, critics, theatre spaces, design, performance, and production practices. Theatre history will be linked to larger social, intellectual, political, and cultural developments around the world.

Pre-Requisites: None.

THEA 3312 Theatre History II

This course investigates the development of world theatre from the 18th century through today. It includes a consideration of plays, playwrights, actors, audiences, critics, theatre spaces, design, performance, and production practices. Theatre history will be linked to larger social, intellectual, political, and cultural developments around the world.

Pre-Requisites: THEA 3311, or permission of the instructor.

THEA 3315 Set Design

In this course, students will engage deeply with the Scenic Design process, learning how to shape and craft a landscape for a production based on initial script analysis, to communicate ideas effectively with the technical director and all members of the collaborative team, and to discover and develop a personal aesthetic and point of view as a set designer. Specifically, students will learn to translate their creative design ideas onto the page via such formats as draftings and models. *Pre-Requisites: THEA 1320, or permission of instructor.*

THEA 3316 Lighting Design

In this course, students will gain a greater understanding of lighting theories, methods, and practices while furthering their understanding of lighting design in relation to the script. May be repeated for credit once.

Pre-Requisites: None.

THEA 3317 Costume Design

This course is designed for students who have a basic understanding of the principles of theatrical design and who want a more intensive study of costume design and the psychology of clothing. Students develop designs that emerge through a process of character analysis, based on the script and production concept. Period research, design, and rendering skills are fostered through practical

exercises. Instruction in basic costume construction, including drafting and draping, provide tools for students to produce final projects.

Pre-Requisites: THEA 1321, or permission of the instructor. May be repeated once for credit.

THEA 3322 Acting: Improvisation and Scene Study

This class provides the theatre student with an opportunity to develop acting skills through the disciplines of improvisation and scene study. Improvisation is employed as a means of structuring original ideas in order to create scenes, as a method of confronting and solving acting problems, as a way to inspire social change, and as a means of theatricalizing non-dramatic sources such as folktales. May be repeated for credit. May be used to fulfill the Fine Arts core requirement.

Pre-Requisites: None

THEA 3323 Scene Study

This course provides the theatre student with an opportunity to develop acting skills through disciplined scene study. Activities will include in-class discussion, a close reading of course texts, detailed character analysis, rehearsal, and performance. May be repeated for credit.

Pre-Requisites: THEA 3322

THEA 3324 Acting for the Camera

Students will develop skills and techniques for single-camera acting in film and television, as well as a basic understanding of the business of acting. Special attention will be given to the on-camera production process, preparing for on-camera auditions, on-camera audition and performance evaluation skills, and honing students' creative tools and expression for the camera.

Pre-Requisites: None.

THEA 4323 Audition Technique

In this course, students will develop a dependable set of tools to prepare them for auditions. Each student will be provided with a method of character analysis based upon physical action and the truth of the moment.

Pre-Requisites: THEA 1322, or permission of the instructor.

THEA 4324 Directing

In this course, students will explore the principles and practice of play directing for beginning directors. Class discussion of the collaborative components of the theatre, the director's approach to the script, the actors, and the theatre space, and the laboratory experience in directing scenes from the core experiences of this course.

Pre-Requisites: THEA 1315 and THEA 1322, or permission of the instructor.