

Addenda to Academic Catalog 2022-2023

January 2023

The following revision has been made in the catalog (deleted items are ~~struck~~, new items are underlined)

Catalog page: 117

10. COURSE DESCRIPTIONS

Number of credit hours (Cr.) for each course is designated with a number following Cr. Then two numbers inside the parenthesis follow the credit hours. The first digit in the parenthesis represents the lecture hours per week and the second one shows the lab hours. Internship courses indicate no standard lecture or laboratory contact hours as class time is spent outside the normal classroom environment. For internships and others, the number of credits is shown as a third hyphenated digit in parenthesis.

Example: Cr. 4. (3-2) means that this course has 4 credits; 3 lectures and 2 lab hours per week, i.e., it has a total of 45 lecture hours and 30 lab hours for the whole 15-week semester.

ACCT 2311 Fundamentals of Financial Accounting

Cr. 3. (3-0). This course introduces students to the theory of accounting and financial reporting, and generally accepted accounting practices. The primary emphasis is on financial statements and accounting for assets, liabilities, equities, revenues and expenses.

Prerequisite: None.

ACCT 2312 Fundamentals of Managerial Accounting

Cr. 3. (3-0). This course focuses on the development, interpretation and use of relevant cost behavior, control, and traceability concepts for management planning, controlling and decision making. Topics include product and direct costing, performance standards and variance analysis, accounting, profitability, and capital budgeting.

Prerequisite: ACCT 2311.

ARTS 1311 Art Appreciation

Cr. 3. (3-0). A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts.

Prerequisite: None.

Course Materials: Free digital textbook.

ARTS 3312 Essentials of Children's Art and Music

Cr. 3. (3-0). This course covers the study of art and music appropriate for young children through early elementary school. Emphasis will be placed on the fundamentals of art and music as well as the integration of aesthetic and creative experiences into the curriculum.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

BIOL 1311 Introductory Biology

Cr. 3. (3-0). Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included.

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

BIOL 1312 Nutrition

Cr. 3. (3-0). This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge. Special emphasis is given to nutrients and nutritional processes including functions, food sources, digestion, absorption, and metabolism. Food safety, availability, and nutritional information including food labels, advertising, and nationally established guidelines are addressed.

Prerequisite: None.

BUSI 2311 Business Statistics

Cr. 3. (3-0). This course focuses on statistical methods, their applications in business contexts and how to interpret analyses performed by others. Topics include data collection, frequency distributions, probability and probability distributions, sampling and sampling distributions, hypothesis testing, regression and correlation analysis.

Prerequisite: MATH 1311 or higher.

BUSI 2312 Mathematical Applications in Business

Cr. 3. (3-0). This course overviews mathematical operations related to a variety of business disciplines. Students learn and apply the following skills: computation, fractions, decimals, percentages, bank transactions, trade/cash discounts, business statistics, payroll calculations, interest, notes and present value calculations.

Prerequisite: MATH 1311 or higher.

BUSI 3313 Business Information Management

Cr. 3. (3-0). This interdisciplinary course focuses on computer-based information systems and explores the basic technical, behavioral, economic, and organizational concepts relevant to information, decision making, and systems in a business context.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

BUSI 3314 Business Ethics

Cr. 3. (3-0). This course examines the role and importance of ethics in a complex business environment, as well as the relationships and social responsibilities of individuals, organizations and communities. Students will also discuss ethical philosophy and apply an ethical decision-making process to practical ethical dilemmas confronting leaders and managers in the workplace.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

BUSI 3315 Business Law

Cr. 3. (3-0). This course provides an overview of the business law and legal environment. Topics for this course include the legal principles of business, dispute resolution and procedures, contract law, bankruptcy law, property law, internet law and e-commerce, security interests, negotiable instruments and sales.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

BUSI 4199 Internship

Cr. 1. (0-0-1). This course is designed to supplement coursework in Business Administration. It helps students apply their knowledge into real-world problems in professional settings. Students recognize the need for continuous learning and experience the challenges of workplace environment.

Prerequisites: Instructor approval required. Must have earned at least 60 credit hours prior to registering for this course.

BUSI 4316 International Business

Cr. 3 (3-0). This course overviews financial, managerial, and marketing problems confronted by multinational firms. Worldwide patterns of trade and investments are also discussed.

Prerequisites: MNGT 2311, MRKT 2311, FINA 3312 or concurrent enrollment. Must have earned at least 60 credit hours prior to registering for this course.

BUSI 4317 Business Policy and Strategy

Cr. 3. (3-0). This course focuses on application of acquired knowledge and skills to real world business problems. Students utilize problem solving principles and techniques to evaluate case studies in a variety of business disciplines.

Prerequisites: MNGT 2311, MRKT 2311, ACCT 2312, FINA 3312 or concurrent enrollment, BUSI 3314 or concurrent enrollment. Must have earned at least 60 credit hours prior to registering for this course.

BUSI 4399 Internship

Cr. 3. (0-0-3). This course is designed to supplement coursework in Business Administration. It helps students apply their knowledge into real-world problems in professional settings. Students recognize the need for continuous learning and experience the challenges of workplace environment.

Prerequisites: Instructor approval required. Must have earned at least 60 credit hours prior to registering for this course.

CEDU 0011 Teaching Methodology and Research Intermediate

This course is designed to reinforce and enhance teaching skills and strategies such as methods of classroom instruction, management and leadership for in-service teachers. (8 weeks)

Prerequisite: None.

CEDU 0012 Teaching Methodology and Research Intermediate

This course is designed to help future teachers put instructional theory into practice. It will provide an integrated coverage of methods of classroom instruction, management and leadership. (16 weeks)

Prerequisite: None.

CEDU 0013 Survey of Educational Strategies (Online) Intermediate

This course is designed to reinforce and enhance teaching skills and strategies for in-service teachers. (8 weeks online)

Prerequisite: None.

COMM 1311 Fundamentals of Communication

Cr. 3. (3-0). Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking.

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

COMM 2312 Business Communication

Cr. 3. (3-0). This course develops students' critical and analytical thinking, written and oral communication skills. It focuses on the writing skills (such as writing reports, memoranda, proposals and other kinds of texts used in business), effective organization and delivery of presentations, and the construction of creative arguments in a business context.

Prerequisite: None.

COMP 1314 Computer Literacy and Applications

Cr. 3. (3-0). This course examines the role of computers in today's society, including the knowledge and ability to efficiently utilize computers, related technology and basic application software with an emphasis on basic operating system knowledge, office applications, and the use of the Internet. Applications include word processing, spreadsheets and presentation software.

Prerequisite: None.

COMP 1411 Introduction to CS I

Cr. 4. (3-2). This course introduces fundamental concepts of structured procedural programming, data types, control structures, algorithm development; program design and implementation using Python programming language; and software development tools. It includes a lab component.

Prerequisite: None.

COMP 1412 Introduction to CS II

Cr. 4. (3-2). This course reviews structured programming and data types. It then introduces the object-oriented programming paradigm using JAVA programming language, focusing on the definition and use of classes, along with the fundamentals of object-oriented design. It includes a lab component.

Prerequisite: COMP 1411.

COMP 2313 Data Structures

Cr. 3. (3-0). This course introduces the fundamental concepts of data structures and algorithms. Topics include fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), sorting, searching, and recursion.

Prerequisite: COMP 1412.

COMP 2316 Computer Organization

Cr. 3. (3-0). This course covers basic computer organization including the CPU, memory and peripherals; digital representation of data and instructions; and assembly language programming, assembler, loader, macros, subroutines, and program linkages.

Prerequisite: COMP 1411.

COMP 2415 Systems Programming

Cr. 4. (3-2). This course examines interaction with a multi-user, multi-tasking operating system (e.g. Unix, Linux) via systems programs. Topics include the details of the file system and I/O, multi-tasking, inter-process communication, process control and shell scripting. It includes a lab component.

Prerequisite: COMP 2316.

COMP 3317 Algorithms

Cr. 3. (3-0). This course focuses on the design and analysis of algorithm; heuristics; advanced tree structures; advanced hashing techniques; advanced sorting and searching; graphs and sets; NP-Completeness; and time and space complexities.

Prerequisites: COMP 2313, MATH 1312, and MATH 2317. Must have earned at least 30 credit hours prior to registering for this course.

COMP 3318 Operating Systems

Cr. 3. (3-0). This course focuses on operating system structure and design techniques; process management, CPU and disk scheduling; process synchronization, concurrency, and memory and file management, device management, virtual memory; mass storage and I/O systems; and OS security.

Prerequisites: COMP 1314, COMP 2316. Must have earned at least 30 credit hours prior to registering for this course.

COMP 3320 Programming Languages

Cr. 3. (3-0). This course covers the history of programming languages. It illustrates programming language concepts such as syntax, semantics scoping, binding, data types and implementation, pattern matching, data control, storage management, parameter passing, and operating environment. The course also covers the paradigms of imperative, functional, logic-based, and object-oriented programming languages.

Prerequisites: COMP 2313. Must have earned at least 30 credit hours prior to registering for this course.

COMP 3321 Database Systems

Cr. 3. (3-0). This course teaches the fundamentals of database systems, including relational and other data models, database design, data description and query languages, file organization, index structures, database integrity and security, access control, interfacing with database systems, transaction programming, and design and implementation of database applications.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

COMP 3322 Software Engineering

Cr. 3. (3-0). This course introduces basic concepts of software engineering, including software requirement analysis, design representation, programming methodologies, verification, validation, maintenance and software planning.

Prerequisites: COMP 1412. Must have earned at least 30 credit hours prior to registering for this course.

COMP 3324 Computer Networks

Cr. 3. (3-0). This course introduces the fundamental concepts and principles of modern computer networks with an emphasis on protocols, architectures, and implementation issues of application, transport, network, data link and physical layers.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

COMP 3325 Computer & Network Security

Cr. 3. (3-0). This course teaches the fundamentals of computer and network security, including cryptography, authentication, and authorization; attack types, detection and defense techniques at the OS and network level; security in modern operating systems and virtual machines.

Prerequisites: COMP 3324. Must have earned at least 30 credit hours prior to registering for this course.

COMP 3326 Web Application Development

Cr. 3. (3-0). This course covers the fundamentals of Web Application development: markup languages, layout design, client and server-side programming using HTML, XHTML, XML, Ajax, JavaScript, DHTML; database and Web integration.

Prerequisites: COMP 1412 and COMP 3322. Must have earned at least 30 credit hours prior to registering for this course.

COMP 4331 Cloud Computing

Cr. 3. (3-0). This course is a tour through various topics and technologies related to Cloud Computing. Topics include distributed system models and enabling technologies, computer clusters for scalable Computing, virtual machines and virtualization of clusters and datacenters, design of cloud computing platforms, cloud programming and software environments, grid computing and resource management, P2P computing with overlay networks, ubiquitous computing with clouds and the Internet of things, and data-intensive distributed computing.

Prerequisites: COMP 3324. Must have earned at least 60 credit hours prior to registering for this course.

COMP 4339 Software Analysis and Design

Cr. 3. (3-0). This course introduces established and evolving methodologies for the analysis, design, and development of an information system. Emphasis is placed on system characteristics, managing projects, prototyping, CASE/OOM tools, and systems development life cycle phases. Upon completion, students should be able to analyze a problem and design an appropriate solution using a combination of tools and techniques.

Prerequisites: COMP 3322. Must have earned at least 60 credit hours prior to registering for this course.

COMP 4342 Advanced Web Application Development

Cr. 3. (3-0). This course emphasizes server-side development of enterprise applications. Topics include web servers, distributed network-based computing, handling client requests, server-side services, transmitting data using HTTP, database connectivity, security, and e-commerce. Programming languages and tools will be among the most significant such as Java, servlets, JavaServer Pages, Active Server Pages, .NET, XML, among others.

Prerequisites: COMP 3326. Must have earned at least 60 credit hours prior to registering for this course.

COMP 4351 Network Administration

Cr. 3. (3-0). This course focuses on the administration of networked operating systems such as Windows Server and Linux. It includes, monitoring, managing and troubleshooting of network resources such as files, folder access, printing devices, device drivers, backup devices, recovery as well as protocols and system services.

Prerequisites: COMP 3324. Must have earned at least 60 credit hours prior to registering for this course.

COMP 4352 Internetworking Technology

Cr. 3. (3-0). This course shows students how to plan and design a network using various internetworking technologies to meet performance, security, capacity, and scalability requirements. This includes the fundamental, technical, and design issues associated with campus LANs.

Prerequisites: COMP 3324. Must have earned at least 60 credit hours prior to registering for this course.

COMP 4353 Data Mining

Cr. 3. (3-0). This course introduces fundamental topics of data mining and knowledge discovery, including statistical foundations, database support, data preprocessing, data warehousing, association discovery, classification, clustering, and mining complex data types.

Prerequisites: MATH 1312 and MATH 2314. Must have earned at least 60 credit hours prior to registering for this course.

COMP 4356 Software Project Management

Cr. 3. (3-0). This course focuses on first-line management of software system development. It covers major themes, including estimation (software cost factors, estimation models, and risk management), planning (work breakdown, scheduling, staffing, resource allocation, and creation of a project plan), and execution (team building, leadership, motivation, process tracking, control recovery, and communication within and outside the project).

Prerequisites: COMP 3322. Must have earned at least 60 credit hours prior to registering for this course.

COMP 4358 Wireless Networking

Cr. 3. (3-0). This course will examine the area of wireless networking, looking at the unique network protocol challenges and opportunities presented by wireless communication and host or router mobility. Although it will touch on some of the important physical layer properties of wireless communications, focus will be on network protocols above the physical layer, with an emphasis on the media access control, network, and transport protocol layers.

Prerequisites: COMP 3324. Must have earned at least 60 credit hours prior to registering for this course.

COMP 4393 Senior Design Project

Cr. 3. (3-0). This is a capstone course intended to facilitate the integration and application of knowledge and skills gained in various courses within the computer science curriculum. The project involves teamwork; modeling of real-world problems; design, development and testing of a software-based solution; and its documentation.

Prerequisites: MATH 2314. Instructor approval required. Must have earned at least 60 credit hours prior to registering for this course.

COMP 4198 Internship

Cr. 1. (0-0-1). This course is designed to supplement coursework in Computer Science. It helps students apply their knowledge into real-world problems in professional settings. Students recognize the need for continuous learning and experience the challenges of workplace environment.

Prerequisites: Instructor approval required. Must have earned at least 60 credit hours prior to registering for this course.

COMP 4398 Internship

Cr. 3. (0-0-3). This course is designed to supplement coursework in Computer Science. It helps students apply their knowledge into real-world problems in professional settings. Students recognize the need for continuous learning and experience the challenges of workplace environment.

Prerequisites: Instructor approval required. Must have earned at least 60 credit hours prior to registering for this course.

COMP 4399 Special Topics

Cr. 3 (3-0). Special topics courses with different titles offered occasionally to cover emerging issues or specialized, ~~in-depth~~ in-depth content not available in the core curriculum. A specific title may be used for each course, which will appear on the student's transcript. Several different topics may be taught in one year or semester. May be repeated for credit for total of 6 credits.

Prerequisites: Advanced standing and consent of instructor or department chair. Must have earned at least 60 credit hours prior to registering for this course.

COMP 5322 Advanced Software Engineering

Cr. 3 (3-0). This course introduces the fundamental software engineering techniques for developing correct, efficient, reliable, maintainable and evolvable software for a large project. In the highly dynamic and competitive software industry, the customers' needs may sometimes be difficult to understand in advance or may change while the software is being developed. Therefore, software products may need to evolve iteratively instead of being designed completely in advance.

Prerequisite: None.

COMP 5327 Advanced Algorithms

Cr. 3. (3-0). This course focuses on the advanced design and analysis of algorithms. Several algorithm design and analysis techniques will be discussed in detail which include solutions to practical problems in graph theory, networks, optimization via divide and conquer algorithms, dynamic programming algorithms and greedy algorithms. Complexity theory, distributed algorithms, and encryption algorithms will be examined.

Prerequisite: None.

COMP 5329 Advanced Operating Systems

Cr. 3. (3-0). This course studies the concepts, theories and components that serve as the bases for the design of classical and modern operating systems. The lectures discuss the classical internal algorithms and structures of operating systems, including advanced topics in Linux/Unix, Mac OS, and Windows Operating Systems.

Prerequisite: None.

COMP 5331 Advanced Cloud Computing

Cr. 3. (3-0). This course is an advanced level tour through various topics and technologies related to Cloud Computing. Topics include distributed system models and enabling technologies, computer clusters for scalable Computing, virtual machines and virtualization of clusters and datacenters, design of cloud computing platforms, cloud programming and software environments, grid computing and resource management, P2P computing with overlay networks, ubiquitous computing with clouds and the Internet of things, and data-intensive distributed computing.

Prerequisite: None.

COMP 5333 Cyber Crime Investigation

Cr. 3. (3-0). This course provides students intensive hands on investigation of computer related crime designed for the profession as an electronic crime investigator. Students will identify, evaluate, classify, and demonstrate proficiency in investigating computer related crimes.

Prerequisite: None.

COMP 5334 Advanced Computer and Network Security

Cr. 3. (3-0). Given the security concepts and building blocks developed in the former course, this course both explores these previous topics in greater depth and covers additional topics. Topics will include advanced cryptography, security protocols, network, firewalls, intrusion detection and prevention systems, vulnerability assessment, and other security technologies. There is special emphasis on application and software security issues. In addition, this course includes hands-on exercises using a Linux virtual machine that reinforce the material and covers weekly current events in computer security.

Prerequisite: None.

COMP 5336 Computer Forensics

Cr. 3. (3-0). This course will provide a foundation in the field of Computer Forensics. The student will learn how to obtain and analyze digital information for possible use as evidence in civil, criminal or administrative cases. Topics include applications of hardware and software to computer forensics, computer forensics law, volume and file system analysis, computer forensics investigations, and computer forensics in the laboratory. Hands-on exercises guide discussions and reinforce the subject matter.

Prerequisite: None.

COMP 5337 Machine Learning

Cr. 3. (3-0). This course examines several fundamental concepts and methods for machine learning. The emphasis will be on machine learning algorithms and applications, with some broad explanation of the underlying principles. The course will also discuss recent applications of machine learning, such as to robotic control, autonomous navigation, bioinformatics, speech recognition, and text and web data processing.

Prerequisite: None.

COMP 5339 Advanced Software Analysis and Design

Cr. 3. (3-0). This course presents established and evolving methodologies for the analysis, design, and development of an information system. Emphasis is placed on system characteristics, managing projects, prototyping, CASE/OOM tools, and systems development life cycle phases. Upon completion, students should be able to analyze a problem and design an appropriate solution using a combination of tools and techniques.

Prerequisite: None.

COMP 5344 Software Testing, Verification and Validation

Cr. 3. (3-0). This course will provide students with an in-depth study of software validation and verification. Topics include the limits of testing, professional responsibility and liability, testing, management of the testing process, automated testing tools, coverage metrics, software quality, non-testing quality assurance, static and dynamic validation techniques, inspections, and audits.

Prerequisite: None.

COMP 5351 Advanced Network Administration

Cr. 3. (3-0). This course focuses on advanced level the administration of networked operating systems such as Windows Server and Linux. It includes, monitoring, managing and troubleshooting of network resources such as files, folder access, printing devices, device drivers, backup devices, recovery as well as protocols and system services.

Prerequisite: None.

COMP 5352 Advanced Internetworking Technology

Cr. 3. (3-0). This course provides students how to plan and design a network using various internetworking technologies to meet performance, security, capacity, and scalability requirements. This includes the fundamental, technical, and design issues associated with campus LANs.

Prerequisite: None.

COMP 5353 Advanced Data Mining

Cr. 3. (3-0). This course provides topics of data mining and knowledge discovery, including statistical foundations, database support, data preprocessing, data warehousing, association discovery, classification, clustering, and mining complex data types.

Prerequisite: None.

COMP 5355 Data Analysis

Cr. 3. (3-0). This course investigates data scraping/sampling/cleaning in order to get an informative, manageable data set; data storage and management in order to be able to access data - especially big data - quickly and reliably during - subsequent analysis; exploratory data analysis to generate hypotheses and intuition about the data; prediction based on statistical tools such as regression, classification, and clustering and communication of results through visualization, and interpretable summaries.

Prerequisite: None.

COMP 5356 Advanced Software Project Management

Cr. 3. (3-0). This course focuses on first-line management of software system development. Covers major themes including estimation (software cost factors, estimation models, and risk management), planning (work breakdown, scheduling, staffing, resource allocation, and creation of a project plan), and execution (team building, leadership, motivation, process tracking, control recovery, and communication within and outside the project).

Prerequisite: None.

COMP 5393 Capstone Project

Cr. 3. (3-0). This is a capstone course intended to facilitate the integration and application of knowledge and skills gained in various courses within the computer science master curriculum. The project involves teamwork; modeling of real-world problems; design, development and testing of a software-based solution; and its documentation.

Prerequisite: None.

COMP 5198 Internship

Cr. 1. (0-0-1). This course is designed to supplement coursework in Computer Science. It helps students apply their knowledge into real-world problems in professional settings. Students recognize the need for continuous learning and experience the challenges of workplace environment.

Prerequisite: None.

COMP 5398 Internship

Cr. 3. (0-0-3). This course is designed to supplement coursework in Computer Science. It helps students apply their knowledge into real-world problems in professional settings. Students recognize the need for continuous learning and experience the challenges of workplace environment.

Prerequisite: None.

COMP 5399 Special Topics

Cr. 3. (3-0). Special topics courses with different titles offered occasionally to cover emerging issues or specialized in depth content not available in the core curriculum. A specific title may be used for each course, which will appear on the student's transcript. Several different topics may be taught in one year or semester. May be repeated for credit for total of 6 credits.

Prerequisite: None.

CONV 0001 Lower Beginner Conversation Low Beginner

This course provides students with instruction in and practice speaking and understanding conversational English in a small- group setting with classmates who are at low beginner level of English proficiency. Students can share information about their countries of origin with classmates from around the world and discuss topics related to personal interests and current events.

Prerequisite: Michigan Placement Exam.

CONV 0002 Upper Beginner Conversation High Beginner

This course provides students with instruction in and practice speaking and understanding conversational English in a small- group setting with classmates who are at high beginner level of English proficiency. Students work on pronunciation, vocabulary and idioms to further develop their conversational skills. They also receive individualized feedback on grammar and pronunciation errors.

Prerequisite: Michigan Placement Exam.

CONV 0003 Lower Intermediate Conversation

Low Intermediate This course provides students with instruction in and practice speaking and understanding conversational English in a small- group setting with classmates who are at low intermediate level of English proficiency. The course focuses on a range of skillsets, including improving listening comprehension, participating in class discussions, understanding conversational strategies, giving group presentations, asking and answering questions, interacting effectively with native speakers, and improving through self- evaluation of speech.

Prerequisite: Michigan Placement Exam.

CONV 0004 Upper Intermediate Conversation High Intermediate

This course provides students with instruction in and practice speaking and understanding conversational English in a small- group setting with classmates who are at high intermediate level of English proficiency. Students will have the opportunity to develop their reading, writing, listening, and speaking skills through high-interest news stories written with English-language learners in mind.

Prerequisite: Michigan Placement Exam.

CONV 0005 Advanced Conversation Advanced

This course provides students with instruction in and practice speaking and understanding conversational English in a small- group setting with classmates who are at advanced level of English proficiency. Students will have the opportunity to develop their reading, writing, listening, and speaking skills through high-interest news stories written with English-language learners in mind.

Prerequisite: Michigan Placement Exam.

COUN 5311 Foundation of School Counseling

Cr. 3. (3-0). This course is designed to provide students with an examination of the profession of school counseling. It will include the philosophy, history, and current trends in school counseling and in education, as well as investigating the concept of developmental counseling programs for P-12 students and the national model and standards for school counseling programs.

Prerequisite: None.

COUN 5312 Individual Counseling Theories and Techniques

Cr. 3. (3-0). This course examines counseling theories and their applications in educational settings. Theories of individual and group counseling with an emphasis on analysis, techniques processes and applications will be covered in this course. Theories covered include psychoanalytic, humanistic, existential, behavioral, cognitive, Gestalt, and solution focused. Student will be understanding the role of group counseling, types, stages, and methods of organizing and facilitating groups in relation to the effectiveness of the overall comprehensive counseling program.

Prerequisite: None.

COUN 5313 Counseling Children and Adolescents

Cr. 3. (3-0). Prepares counselors to address the specific needs of children and adolescents, with emphasis on developmental needs, specific therapeutic interventions, and common emotional issues. Discussions include methods for designing and evaluating treatment plans and the application of ethical standards and legal requirements with young people.

Prerequisite: None.

COUN 5314 Multicultural Counseling

Cr. 3. (3-0). The purpose of this course is to provide students an opportunity to gain multicultural competency as professional counselors as well as introduce students to ethical principles, professional guidelines, and issues pertaining to special groups. Students are expected to challenge themselves to consider how their own values and backgrounds will influence their own personal sets of ethics. It is hoped that this course will assist students in their future daily work as professional counselors and will facilitate

decision-making and consultation skills when faced with ethical dilemmas. Students will be asked to reflect on internalized messages regarding other groups and challenged to make new decisions in an effort to bring behaviors and attitudes into congruence with professional standards.

Prerequisite: None.

COUN 5315 Developmental Guidance and Counseling

Cr. 3. (3-0). This course is designed to help counselor students to understand the design, implementation, management, and evaluation of a comprehensive developmental school counseling program. Students will be mastering knowledge and skills needed for developing school counseling programs that are standards-based, data driven, comprehensive, and grounded in principles of human growth and development. The course provides skills for students to align counseling program development with the ASCA National Model for School Counseling Programs.

Prerequisite: None.

COUN 5316 Career Development and Counseling

Cr. 3. (3-0). Career Development and Counseling explores career development theories and the career decision-making process. Special emphasis is placed on strategies used by school counselors to assist children, adolescents, and teens in making career and educational decisions. Students learn how to encourage motivation by connecting personal values and interests with academics. Topics include multicultural considerations, the relationship between one's career development and other life roles, and assessment instruments relevant to career planning. The process of career development will be covered as well as the implications for students with disabilities.

Prerequisites: None.

COUN 5317 Practicum for School Counseling

Cr. 3. (3-0). The practicum is an opportunity for candidates of Master of Education in School counseling to have authentic field experience in school counseling positions. During practicum, students put the skills they have gained in the program into practice.

Prerequisites: None.

COUN 5318 Group and Family Counseling Theories and Techniques

Cr. 3. (3-0). This course introduces the Group and Family counseling theories and their applications in educational settings. Theories of group and family counseling with an emphasis on analysis, techniques processes and applications will be covered in this course. Theories covered include psychoanalytic, humanistic, existential, behavioral, cognitive, Gestalt, and solution focused. Student will be understanding the role of group counseling, types, stages, and methods of organizing and facilitating groups in relation to the effectiveness of the overall comprehensive counseling program.

Prerequisite: None.

COUN 5319 Mental Health & Community Counseling

Cr. 3. (3-0). This course addresses professional orientation of services and issues related with mental health counseling in schools. In addition, it provides the study of scope and methods of counseling in school community.

Prerequisite: None.

COUN 5320 Counseling for Special Population

Cr. 3. (3-0). This course prepares school counselors to address the specific need of special populations, using principles, techniques, and practices. In addition, students learn the research into the role of ethical and cultural skilled counseling with special populations in schools including IDEA, ADA.

Prerequisite: None.

COUN 5327 Ethics in Professional Counseling

Cr. 3. (3-0) Ethics in Professional Counseling will review ethical and legal issues considered for professional counselors. The American School Counseling Association Code of Ethics and American Counseling Association Code of Ethics will be thoroughly examined to acquire proficiency in understanding the ethical standards as a professional counselor.

Prerequisite: None.

CRJS 1301 Introduction to Criminal Justice

Cr. 3. (3-0). This introductory course is designed to familiarize students with the various facets of the criminal justice system, the sub-systems and how they interrelate, processing of offenders, sentencing, punishment and its alternatives, and the future of the criminal justice system. The historical and theoretical development of the criminal justice system and the impact of issues such as technology, transnational terrorism, cybercrimes, and homeland security on this development are explored.

Prerequisite: None.

CRJS 2302 Police Systems & Practices

Cr. 3. (3-0). This course is an introduction to the operation, philosophy, history, and constitutional limitations of law enforcement in a democratic society in accordance with the U.S. Constitution. The course will focus on the function of law enforcement within society, ethics and professionalism, theories of law enforcement, and the legal aspects that impact law enforcement.

Prerequisite: None.

CRJS 2303 Criminal Law

Cr. 3. (3-0). This course presents an overview of the philosophical development of the American system of criminal law. The course focuses on the types of criminal law, the definitions and classification of crimes, criminal liability and the discussion of controversial issues in criminal law such as the insanity defense, culpability and jurisdiction. This course utilizes actual court cases to illustrate major legal concepts.

Prerequisite: CRJS 1301.

CRJS 2304 Constitutional Law

Cr. 3. (3-0). The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify and discuss the basic structure of the United States Constitution, the application of the legal fundamental rights involved in the daily operation of the criminal justice system as well as the rights and procedures as interpreted by the courts.

Prerequisite: CRJS 1301.

CRJS 2305 Criminal Trial and Courts

Cr. 3. (3-0). This course examines the criminal process within American courts from arrest/arrest warrant application to final appeal. Topics include magistrates, trial and appellate courts, plea bargains, evidence, burdens of proof, jury selection and instructions, jurisdiction, habeas corpus and accountability. An analysis of the structure and function of the American court system with attention to the roles of the judge, prosecutor, defender, defendant, jury, victim, witnesses and court administrator are examined.

Prerequisite: CRJS 1301.

CRJS 2315 Issues in Criminal Justice

Cr. 3. (3-0). Students will examine major trends and themes in-depth that is not addressed in great detail in another course. Topic will change based on the interests, expertise of the instructor, and current events.

Prerequisite: CRJS 1301.

CRJS 2316 Criminal Justice Theory and Practice

Cr. 3. (3-0). This course examines how criminological theory has developed so that we may better understand the theoretical framing that supports various schools of thought regarding the criminal offender(s) and criminal behavior. Starting with the classical school, moving through the various schools of thought regarding criminality that include, among others, the positivist theories, social disorganization (Chicago School), social learning, strain, social control, and labeling. The course continues through critical criminology, feminist criminology, and more modern theories such as rational choice, routine activity, and development/life course. These theories are examined from a criminal justice perspective view. Moreover, this course is writing-enhanced.

Prerequisite: CRJS 1301.

CRJS 2317 Comparative/International Criminal Justice

Cr. 3. (3-0). A systematic comparison of the developmental backgrounds, structure and functioning of the major systems of justice in the modern world. This course reviews the many faces of crime as it takes place around the world and details unusual crimes in foreign countries including: organized crime, money laundering, the drug trade, sex trade, white-collar crime, cybercrime, social media, and terrorism.

Prerequisite: CRJS 1301.

CRJS 2318 Victimology

Cr. 3. (3-0). Survey of the literature, research and current trends concerning the victim in the criminal justice system; particular attention is given to the victim rights and compensation, fear of crime measuring victimization, and the impact of victimization on the individual.

Prerequisite: CRJS 1301.

CRJS 3306 Correctional System and Practices in America

Cr. 3. (3-0). This course provides an overview of correctional philosophies, practices, and procedures in the corrections segment of the criminal justice system. It examines institutional frameworks and innovations, accountability measures and legislative initiative. The correctional process is examined from sentencing to parole. Examines legal and administrative processes used in establishing post-conviction remedies, criminal sanctions, and social controls on adult offenders. Emphasis on understanding the structure and function of the American correctional system and the processes in establishing correctional custody and treatment.

Prerequisites: CRJS 1301. Must have earned at least 30 credit hours prior to registering for this course.

CRJS 3307 Criminology

Cr. 3. (3-0). This course explores the development of criminology as a discipline in greater depth. Contemporary criminological theories relative to the causes of criminal behavior and victimization are studied. Students are expected to study these biological, sociological, psychological, ecological, and anthropological explanations of crime and critically discuss their relevancy to the modern world. Additionally, types of criminal behavior and the systems reaction to these crimes will be distinguished. Research affecting social policy and public crime concerns are examined including social problems and social responsibility perspectives as well.

Prerequisites: CRJS 1301. Must have earned at least 30 credit hours prior to registering for this course.

CRJS 3308 Evidence and Procedures

Cr. 3. (3-0). This course focuses on the use of evidence and the legal procedures followed in the processing of criminal cases. Furthermore, this course focuses on the laws and court decisions relating to the admissibility of evidence as well as the appropriate methods of interrogation and its uses in the criminal justice process.

Prerequisites: CRJS 1301, CRJS-2303, and CRJS 2304. Must have earned at least 30 credit hours prior to registering for this course.

CRJS 3309 Technique Writing for Criminal Justice

Cr. 3. (3-0). This course is designed to introduce Criminal Justice majors to oral and written communication, critical thinking and operations in criminal justice. Emphasis is placed on the development of writing skills required for careers in criminal justice, including various forms of correspondence, interoffice memos, informal reports, minutes of meetings, summaries, briefings, and presentations; proofreading, revising, and editing; writing for culturally diverse audiences; and criminal justice terminology. In addition, this course focuses on building error-free sentences, concept formulation and proper citation, e.g., APA.

Prerequisites or Corequisites: ENGL 1311 and ENGL 1312. Must have earned at least 30 credit hours prior to registering for this course.

CRJS 3310 Criminal Investigation

Cr. 3. (3-0). This course provides a brief overview of scientific crime detection and more detailed discussion of techniques for case management and documentation, the concept of proof, the impact of emergent technology on the investigative process, interacting with victims and witnesses, and interviewing suspects. Particular emphasis may be placed on the investigation of particular types of crimes, such as, homicides, sex offenses, child abuse, hate crimes, and so forth.

Prerequisites: CRJS 1301. Must have earned at least 30 credit hours prior to registering for this course.

CRJS 3311 Research Methods In Criminal Justice

Cr. 3. (3-0). Introduction to the research process as practiced in criminal justice: definition of problem, delineating theory, literature review, various methods of data collection, data analysis, examination of validity and reliability, research design and presentation. Research devices used in everyday criminal justice. Students participate in some aspect of research.

Prerequisites or Corequisites: ENGL 1311 and ENGL 1312; CRJS 1301. Must have earned at least 30 credit hours prior to registering for this course.

CRJS 3312 (or FORS 3331) Criminal Psychology

Cr. 3. (3-0). This course examines the various ways in which psychologists, as well as psychological theories and methods, contribute to the study of crime, criminal behavior and the processes of criminal justice. We consider several key domains of forensic psychology including criminal profiling, eyewitness testimony, forensic interviewing, offender risk assessment and case management. The course also examines points of connection and disjuncture between criminology and psychology, through consideration of the relationship between individual-level and society-level explanations of criminal behavior.

Prerequisites: CRJS 1301 and FORS 2329. Must have earned at least 30 credit hours prior to registering for this course.

CRJS 3313 Diversity and Multiculturalism in Criminal Justice

Cr. 3. (3-0). The primary objective of this course is to provide students with an overview of issues related to multiculturalism and diversity in the criminal justice system. General areas covered will include how culture influences the decision-making practices of those employed in the system, victimization/offending issues among diverse groups, understanding and appreciating cultural diversity of communities, and historical and current issues impacting a wide range of groups.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

CRJS 3314 Statistics in Criminal Justice

Cr. 3. (3-0). An introductory overview of statistical principles and statistical techniques in criminal justice research. Introduction of data measurement, data distributions, probability and the normal curve, samples and populations, testing differences between means, analysis of variance, nonparametric tests of significance, correlation, and regression analysis. Includes "hands-on" experience using SPSS for data analysis and interpretation.

Prerequisites: MATH 1311. Must have earned at least 30 credit hours prior to registering for this course.

CRJS 3319 Introduction to Criminalistics

Cr. 3. (3-0). This course emphasizes the scientific investigation of crime. Analysis, comparison and identification of physical evidence; blood and body fluids, casts and molds, detective dyes, fingerprints, and trace evidence. The importance of crime scene preservation and laboratory examination of forensic evidence as critical steps in the investigative process are emphasized. The processing of evidence in the field and laboratory are performed during in class lectures and in laboratory settings. Specific areas that will be covered during this class include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Another focus will be the proper recognition, collection and preservation of physical evidence obtained from systematic searches of crime scenes.

Prerequisites: CRJS 1301. Must have earned at least 30 credit hours prior to registering for this course.

CRJS 3320 Juvenile Delinquency

Cr. 3. (3-0). This course will introduce students to the principles of juvenile delinquency and current trends. It will provide a historical overview of juvenile delinquency in America. The course will examine the psychological, social, and environmental theories of juvenile delinquency while also covering the juvenile court system and treatment options for delinquency. This course also examines the actual court cases that changed how youths are processed.

Prerequisites: CRJS 1301 and CRJS 3307. Must have earned at least 30 credit hours prior to registering for this course.

CRJS 3321 Mental Illness and the Criminal Justice System

Cr. 3. (3-0). This course explores the relationship of mental illness to crime and violence. Topics include the nature, prevalence, and consequences of mental disorder, substance use, and violence among criminal offenders, violence risk assessment, and the institutional and other treatments for the mentally ill offender. Prerequisites: CRJS 1301. Must have earned at least 30 credit hours prior to registering for this course.

CRJS 4322 Ethics in Criminal Justice

Cr. 3. (3-0). A critical examination of the diverse ethical issues encountered in the American criminal justice system with a focus on comparing and contrasting the principles of moral philosophy and ethical theory to the practices of criminal justice agencies. Furthermore, this course examines the moral, legal and normative obligations of the state and criminal justice professionals. Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

CRJS 4323 Substance Abuse and the Criminal Justice System

Cr. 3. (3-0). Social and psychological factors in alcohol and drug use, abuse and addiction. Legal and social elements of substance abuse and their relationship to criminal justice system. Characteristics of various controlled substances; categories of drug offenses; and investigation of drug cases. Prerequisites: CRJS 1101. Must have earned at least 60 credit hours prior to registering for this course.

CRJS 4324 Terrorism

Cr. 3. (3-0). This course addresses the phenomenon of terrorism from a criminal justice perspective. The history of the phenomenon and contemporary terrorism in both its domestic and international manifestations; theories about terrorism; analytic methods for investigating and combating it, whether perpetrated by state or non-state actors. Prerequisites: CRJS 1301. Must have earned at least 60 credit hours prior to registering for this course.

CRJS 4325 Cybercrime

Cr. 3. (3-0). This course focuses on topics related to cybercrime, including legal, enforcement, behavioral, and social factors that influence its perpetration, prevention, and prosecution. Prerequisites: CRJS 1301. Must have earned at least 60 credit hours prior to registering for this course.

CRJS 4326 Quantitative Analysis

Cr. 3. (3-0). An introduction to quantitative applications in the field of Criminal Justice. Basic descriptive and inferential statistics. Topics include measurement scales, measures of central tendency, measures of dispersion, data distributions, sampling, probability, hypothesis testing, Chi Square, Z-test, T-Test, and Analysis of Variance models. Students will be introduced to SPSS for data analysis. Prerequisites: CRJS 3311 and CRJS 3314. Must have earned at least 60 credit hours prior to registering for this course.

CRJS 4327 Crisis Communication/Emergency Management

Cr. 3. (3-0). The course focuses on emergency response, crisis communication planning, and how to deliver coordinated responses to mitigate risk in high-stress situations. Students will gain foundational knowledge on how to effectively communicate when determining a coordinated approach to a crisis. Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

CRJS 4328 Social Justice and Crime

Cr. 3. (3-0). This course examines the social injustices in the criminal justice system's naming and sanctioning of harmful behaviors as crimes. Discussions will unpack the values, ethics, and ideologies underlying the current retributive system of sanctioning compared to social justice responses. Harmful and oppressive crimes of states, nations, and corporations such as genocide, violence, and environmental crimes illustrate key concepts underlying justice models. Students will learn how the following concepts apply in retributive justice models and more inclusive, peace-oriented, and restorative models: marginalization, stigmatization, stigma, power, privilege, bias, oppression, resistance, compassion, inclusivity, community, and the limitations of a rights-based approach.

Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

CRJS 4398 Internship

Cr. 3. (0-0-3). This course is designed to supplement coursework in Criminal Justice. It helps students apply their knowledge into real-world problems in professional settings. Students recognize the need for continuous learning and experience the challenges of workplace environment. Students also receive feedback from their on-site supervisor to use as a guide and to help them as they prepare to enter the workforce.

Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

CRJS 4399 Special Topics

Cr. 3. (3-0). This course focuses on special topics related to contemporary criminal justice issues chosen by the instructor and selected by the student such as crime-fighting tactics, society's response to reducing crime, and criminal behavior.

Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

CUIN 5321 Methods in Science Teaching

Cr. 3. (3-0). This course is designed to develop pedagogical content knowledge for teaching science. Materials, methods and strategies necessary to teach science in secondary schools will be presented.

Prerequisite: None.

CUIN 5323 Teaching Science Lab

Cr. 3. (3-0). This course is designed to develop skills to master the science laboratory in secondary schools. The techniques to conduct experiments and demonstrations in science laboratory will be presented. Process of scientific inquiry and its role in science instruction will be overviewed. Laboratory safety will also be addressed.

Prerequisite: None.

CUIN 5331 Web Design and Web 2.0 Applications

Cr. 3. (3-0). This course explores advanced graphical editing methods in current Digital Graphics and Animation software. Both traditional and cloud-based alternatives of latest Digital graphics and Animation software will be covered with special emphasis in educational applications. Practical aspects of this course include creating educational website and materials by using ~~Wordpress~~ WordPress and various Web 2.0 tools.

Prerequisite: None.

CUIN 5332 Digital Graphics and Animation

Cr. 3. (3-0). This course explores advanced graphical editing methods in current Digital Graphics and Animation software. Both traditional and cloud-based alternatives of latest Digital graphics and Animation software will be covered with special emphasis in educational applications. Practical aspects of this course include creating educational materials by using Adobe Photoshop and Adobe Edge (HTML5 based animation).

Prerequisite: None.

CUIN 5341 Seminar in Curriculum and Instruction 1

Cr. 3. (3-0). This course includes the study of research, theory, pedagogy and curriculum for intermediate and secondary classrooms. It emphasizes on the current approaches to curriculum and curriculum innovation, including major educational issues as they affect curricular activity.

Prerequisite: ~~Graduate standing.~~ None.

CUIN 5342 Seminar in Curriculum and Instruction 2

Cr. 3. (3-0). This course focuses on the application of instructional strategies for teachers at the middle and secondary levels. Sources of materials, textbooks, and methods of teaching are addressed. In addition, it analyzes classroom teaching from a variety of disciplinary perspectives.

Prerequisite: ~~Graduate standing.~~ None.

CUIN 5343 Seminar in Curriculum and Instruction 3

Cr. 3. (3-0). This course is designed to help educators guide their students in acquiring skills needed for adequate reading, thinking, writing, and study in their content areas. Emphasis is on the functional teaching of the content including the design and preparation of materials to use in all school subjects.

Prerequisite: ~~Graduate standing.~~ None.

ECON 2311 Principles of Macroeconomics

Cr. 3. (3-0). An analysis of the economy as a whole including measurement and determination of aggregate demand and aggregate supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy. (ECON 2311 Principles of Macroeconomics and ECON 2312 Principles of Microeconomics can be taken in any order).

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

ECON 2312 Principles of Microeconomics

Cr. 3. (3-0). Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade. (ECON 2311 Principles of Macroeconomics and ECON 2312 Principles of Microeconomics can be taken in any order).

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

ECON 3313 Global Economics

Cr. 3. (3-0). This course focuses on international trade in goods, services, and capital. It serves as an introduction to international economic issues and related policies. The issues discussed in the course

include gains from trade and their distribution; analysis of protectionism; strategic trade barriers; the trade deficit; exchange rate determination; and government intervention in foreign exchange markets.

Prerequisites: ECON 2311 or ECON 2312, and FINA 3312. Must have earned at least 30 credit hours prior to registering for this course.

EDUC 0011 Pedagogy and Professional Responsibility

~~Non-credits. One semester long. Pass/Fail.~~

This non-credit course has different modules about educational pedagogy and responsibility. The course consists of the following components: Pedagogy and Professional Responsibilities Instruction, Content Pedagogy Instructions (in Mathematics, Science, ELA, TEAP, Social Studies, and Physical Studies), Test Preparation, Field-Based Observations, and Professional Development activities.

Prerequisite: None.

Outcome: Pass/Fail.

EDUC 0012 Internship Semester I

~~Non-credits. One semester long. Pass/Fail.~~

This non-credit course is a semester long internship in a school setting for ACP students. In this course, students are expected to observe and reflect their internship experience in the context of instruction, student assessment, classroom management, communication within school setting, and professional ethics. Students will be required to demonstrate their knowledge and competency through portfolio assessment.

Prerequisite: None.

Outcome: Pass/Fail.

EDUC 0013 Internship Semester 2

~~Non-credits. One semester long. Pass/Fail.~~

This non-credit course is the ~~following of~~ follow-up to EDUC 0012. It is a semester long internship in a school setting for ACP students. In this course, students are expected to observe and reflect their internship experience in the context of instruction, student assessment, classroom management, communication within school setting, and professional ethics. Students will be required to demonstrate their knowledge and competency through portfolio assessment.

Prerequisite: None.

Outcome: Pass/Fail.

EDUC 2311 Introduction to Teaching Profession

Cr. 3. (3-0). This course introduces prospective teachers as well as other education students to the teaching profession. Presenting both historical and current views of teaching and education, this course encourages students to think more deeply, broadly, and systematically about what teaching is, what teachers do, and whether teaching is an appropriate career choice for them. In the course students will develop research and theory-based views of educational history, teaching practices, various contexts of teaching and teachers, and contemporary issues related to teacher education.

Prerequisite: None.

EDUC 2312 Learning Theories and Development

Cr. 3. (3-0). This course analyzes learning and development theories and their implications for learning and teaching. It examines factors that impact and facilitate learning, as well as instructional strategies that support the cognitive, social, and emotional development of learners

Prerequisite: None.

EDUC 3314 Classroom Management

Cr. 3. (3-0). This course teaches effective classroom management with an emphasis on helping students become self-regulated learners; i.e. the application of various management techniques to help students become more responsible for their behaviors and choices. Theories and diverse strategies related to effective classroom management will be discussed.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

EDUC 3315 Curriculum and Instructional Design

Cr. 3. (3-0). This course focuses on the design of instruction, in particular on the theory and method of design based on congruence between identified needs and approaches to curriculum development. Topics include curricular design models and the integral connection between curriculum, assessment, and instruction; strategies for curriculum alignment; investigation and application of research-based instructional strategies; and the use of technology to enhance instruction.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

EDUC 3316 Integrating Technology into the Curriculum

Cr. 3. (3-0). This course examines the use of computers in the classroom and their impact on the learning environment. Topics include selection of resources, materials, and strategies for systemic achievement of curriculum goals; investigation of innovative and effective technological advances; and practices for use in teaching and learning.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

EDUC 3317 Education in Culturally Diverse Environments

Cr. 3. (3-0). This course offers perspectives on multicultural education in our schools today; on the appreciation of differences based on race, culture, ethnicity, and gender; and on how classroom practices can reflect a mature understanding of culturally diverse environments.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

EDUC 4010 Internship

Cr. 3. (3-0). The course provides an opportunity for students to have authentic field experience in their field. It helps students apply their knowledge into real-world problems in professional settings. Students recognize the need for continuous learning and experience the challenges of workplace environment.

Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

EDUC 4318 Education of Exceptional Children

Cr. 3. (3-0). This course examines educators' responses to the needs of students with disabilities, those who are Limited English Proficient, and those who are academically or intellectually gifted. The focus is on differentiating and individualizing instruction for each student's mental, physical, emotional, and vocational development in the least restrictive environment.

Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

EDUC 4320 Issues in Education - Cultural Diversity, Reform, Law, and Ethics

Cr. 3. (3-0). This course examines the key areas of educators' legal and ethical responsibilities, such as equity in education, documentation, intellectual property, accommodations for the disabled, student privacy, confidentiality, and personal relations between teachers and students. Specific legal cases will be discussed.

Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

EDUC 4321 Measurement and Assessment in Education

Cr. 3. (3-0). This course examines principles of educational measurement and evaluation in secondary schools. Topics include test construction, test reliability and validity, item analysis, interpretation of test results, grading and reporting of educational achievement.

Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

EDUC 4324 Reading in Content Areas

Cr. 3. (3-0). This course focuses on the development of reading skills and the interaction of readers with the text. Topics include the readability of curriculum materials, accommodating learning in light of students' diverse reading abilities, and assessment of student learning.

Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

EDUC 4699 Student Teaching

Cr. 6. During practicum, student put into practice the skills they have gained in the Interdisciplinary Studies in Education program. Students will be able to manage the real problems of the school successfully; understand the needs of school administrators, teachers, students, and parents; apply technology in the classroom; and create lesson plans and other documentation based on the needs of the schools.

Prerequisite: Completion of all coursework.

EDUC 5311 Human Growth and Development

Cr. 3. (3-0). This course is designed to examine human development throughout the life span. The physiological, social, emotional, cognitive, language and cultural influences on growth and development will be introduced. Theories of childhood, adolescent and young adult development and learning will be examined.

Prerequisite: None.

EDUC 5312 Curriculum and Instructional Design

Cr. 3 (3-0). This course focuses on the design of instruction, with a focus on theory and method of design, as it relates to school leadership. The main topics include curriculum design, instructional strategies, lesson planning, and assessment. This course is designed to be a practical course where educators will be equipped with the core skills needed for the successful provision and delivery of school curriculum. The mission of this course is to not only build the required skills set to succeed as a future educational leader, but also to extend the interest of students by introducing the concepts that are commonly used by today's teachers, along with new applications to provide students with the confidence, knowledge, and ability to easily learn the fundamentals of teaching.

Prerequisite: None.

EDUC 5313 Statistical Procedures and Measurement

Cr. 3. (3-0). This course is intended to provide educators with a conceptual introduction to basic inferential statistics and statistical hypothesis testing in the behavioral sciences. Emphasis is placed on understanding the underlying concepts and assumptions of statistical procedures, and on the correct application and interpretation of each procedure.

Prerequisite: None.

EDUC 5314 Data Driven Instruction

Cr. 3. (3-0). This course focuses on the role of school leaders in improving curriculum and instruction. Students will explore how to integrate effective instructional practices with data-driven instructional interventions. They will analyze data from a variety of sources and work with a team to create a continuous school improvement plan that promotes gains in student achievement.

Prerequisite: None.

EDUC 5315 Instructional Coaching for School Leaders (personnel)

Cr. 3. (3-0). This course explores effective strategies for improving teacher performance through instructional coaching and differentiated professional development. Students will examine the teacher recruitment, selection, supervision, and evaluation procedures at their schools to learn how administrators collect and interpret data to provide constructive feedback that helps teachers improve their instructional practice.

Prerequisite: None.

EDUC 5319 School Budgeting and Resource Management

Cr. 3. (3-0). This course emphasizes the role of the principal in the planning, development, and implementation of the financial aspect of a campus including budgeting, purchasing, human resources, and business office management. Emphasis is placed on processes and procedures that most effectively and equitably meet the identified instructional needs of the building and specifically support increased student achievement as specified in the campus improvement plan. Scheduling, discipline, and facility management will be addressed as the management component of the course. This course also includes theory and practices of business management, internal accounting procedures, and the Texas public school finance.

Prerequisite: None.

EDUC 5320 Communication for School Leaders

Cr. 3. (3-0). This course examines the importance of utilizing effective strategies to establish positive school-community relationships through effective communication of a shared vision of student success to a diverse school community. Students will review communication documents from their schools to evaluate the effectiveness of current communication channels. They will analyze the school's communication plan and make recommendations for improving it.

Prerequisite: None.

EDUC 5322 Practicum 1

Cr. 3. (0-0-3). The practicum is an opportunity for candidates of the educational leadership program to have authentic field experiences as interns in school settings. Working under the guidance and supervision

of experienced school administrators, interns will earn 90 hours of leadership experience as they learn about the roles and responsibilities of school leaders through a combination of observations, interviews, and field experiences. This semester the focus will be leading a vision, improving school culture, developing effective communication techniques, and using data analysis to improve the educational processes on the campus.

Prerequisite: None.

EDUC 5323 Practicum 2

Cr. 3. (0-0-3). The practicum is an opportunity for candidates of the educational leadership program to have authentic field experiences as interns in school settings. Working under the guidance and supervision of experienced school administrators, interns will earn 90 hours of leadership experience as they learn about the roles and responsibilities of school leaders through a combination of observations, interviews, and field experiences. This semester the focus will be on understanding organizational culture, developing time management strategies, creating a self-improvement plan, participating in strategic planning, supervising, coaching, motivating, and evaluating employees, and providing professional development for teachers based on an identified need.

Prerequisite: None.

EDUC 5324 Integrating Technology into Education

Cr. 3. (3-0). The course is designed to help enhance the skills of teacher and school administrators in the area of technology leadership. The course covers an overview of the utilization of technology to enhance decision-making, institute long-term planning, and regulate the day-to-day operations of the organization.

Prerequisite: None.

EDUC 5325 Research Methods in Education

Cr. 3. (3-0). This graduate-level course provides advance level research methods in education. The class will take place online, consisting of readings, discussions, and a variety of learning activities. The procedures commonly used in educational research and conceptual, procedural and analysis issues from a wide variety of areas will be covered. By the end of the course, students will have a good awareness of the range of procedures that may be applied to different types of research studies and the guidelines that should be used in selecting a set of appropriate research methods.

Prerequisite: None.

EDUC 5327 Ethical, Legal, and Professional Issues in Education

Cr. 3. (3-0). This course provides an overview of legal and ethical issues in education that affect decision-making and long-range planning for school leaders. Students will review educational law and policy, develop an ethical leadership philosophy, analyze the cultural proficiency of their organization, research laws regarding the education of special populations, and develop a plan to stay informed about upcoming legislation, as well as federal (national), state, and local guidelines.

Prerequisite: None.

EDUC 5328 Action Research.

Cr. 3. (3-0). This course introduces students to the action research cycle as they learn how to use data to make decisions and find solutions to problems of practice that exist in the school environment. To promote a culture of high expectations, school leaders must collaborate with teachers and other staff to identify problems, evaluate current practice, implement research-based interventions, analyze data, and make

informed decisions that promote high-quality instruction designed to improve student achievement. Students will identify a problem that exists on their campus and create an action research plan to address it.

Prerequisite: None.

EDUC 5329 Organizational Management

Cr. 3. (3-0). This course explores the dynamics of organizational behavior within a successful organization. Emphasis is on gathering information from a variety of sources to implement effective problem-solving, decision-making, and strategic planning strategies. Students will explore how to increase employee motivation, resolve conflicts, and improve their own time management and organizational skills. They will evaluate the school's crisis management and facilities management plans to determine any changes that need to be made to ensure the safety of students and staff members. Based on available data, students will create a strategic plan for their campus and share this with colleagues.

Prerequisite: None.

EDUC 5398 Thesis Research

Cr. 3. (0-0-3). This course is designed for those who will pursue thesis option in their plan of study. It is designed for preparation of master thesis. The candidate identifies a problem, reviews literature, creates a product based on applicable literature, research or theory that addresses the problem, and develops a plan for implementation and evaluation with the supervision of an academic advisor.

Prerequisite(s): 24 graduate credit hours.

EDUC 5399 Thesis Writing

Cr. 3. (0-0-3). The thesis is an independent research course which involves theoretical or empirical research that identifies an issue or question, reviews literature, designs a study, gathers and analyzes data or evidence, and presents interpretations or conclusions. A candidate is required to perform the study under the guidance of a faculty advisory committee. A written thesis is required to be presented, defended orally, and submitted to the faculty advisory committee for approval.

Prerequisite: EDUC 5398.

ENGL R300 Basic Writing

Cr. 3. (3-0). This course will help students to develop the writing skills needed for successful completion of college-level work. This course focuses on academic writing. It provides strategies for improving content, organization, outlining, and editing from sentences to essays. It will also focus on vocabulary development and improvement.

Prerequisite: None.

Outcome: Pass/Fail.

ENGL R301 Development of Reading Skills

Cr. 3. (3-0). This course will help students understand and demonstrate active reading strategies, by being able to comprehend materials more fully through proper organization and identification of main ideas and details. The focus will be on non-fiction prose.

Prerequisite: None.

Outcome: Pass/Fail.

ENGL 1311 Composition and Rhetoric I

Cr. 3. (3-0). This course stresses the intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis.

Prerequisites: ENGL R300 and ENGL R301, or placement by exam.

Course Materials: Free digital textbook and course materials.

ENGL 1312 Composition and Rhetoric II

Cr. 3. (3-0). ENGL 1312 is a more extensive study of the skills introduced in ENGL 1311 with an emphasis on critical thinking, research and documentation techniques, and literary and rhetorical analysis.

Prerequisite: ENGL 1311.

Course Materials: Free digital textbook and course materials.

ENGL 2315 Survey of British Literature I

Cr. 3. (3-0). A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Prerequisite: ENGL 1312.

ENGL 2316 Survey of American Literature I

Cr. 3. (3-0). A survey of American literature from the period of exploration and settlement through the Civil War. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

Prerequisite: ENGL 1312.

ENGL 2317 Survey of British Literature II

Cr. 3. (3-0). A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Prerequisite: ENGL 1312.

ENGL 2318 Survey of American Literature II

Cr. 3. (3-0). A survey of American literature from the Civil War to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

Prerequisite: ENGL 1312.

ENGL 2319 Survey of World Literature

Cr. 3. (3-0). A survey of world literature from the ancient world to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Prerequisite: ENGL 1312.

ENGL 3320 Composition Theory and Pedagogy

Cr. 3. (3-0). Theory and practice of teaching writing in the secondary schools including process, form, equitable grading, and digital composition methodologies.

Prerequisites: ENGL 1312. Must have earned at least 30 credit hours prior to registering for this course.

ENGL 3322 Studies in Linguistics and History of the English Language

Cr. 3. (3-0). This course examines the Linguistics and history of English from the prehistoric roots that bind it to other languages of Europe and Asia, through the period of its earliest attestation, and into the modern era. The course approaches the subject from the perspective of modern linguistics and also develops familiarity with the theory and analytical methods of this field.

Prerequisites: ENGL 1312. Must have earned at least 30 credit hours prior to registering for this course.

ENGL 3323 English Grammar and Syntax

Cr. 3. (3-0). This course focuses on the preparation for teaching grammar, usage, punctuation, composition, spelling, critical thinking, and listening in secondary schools.

Prerequisites: ENGL 1312. Must have earned at least 30 credit hours prior to registering for this course.

ENGL 3325 Young Adult Literature

Cr.3. (3-0). Survey of historical and contemporary literature for adolescents with emphasis on genre, literary and cultural significance.

Prerequisites: ENGL 1312. Must have earned at least 30 credit hours prior to registering for this course.

ENGL 3326 Literary Theory and Criticism

Cr. 3. (3-0). Survey of the major modes of literary criticism with emphasis on the basic concepts underlying specific theories as well as their application and impact within a literary genre.

Prerequisites: ENGL 1312. Must have earned at least 30 credit hours prior to registering for this course.

ENGL 3328 Literacy Instruction in Elementary Grades

Cr. 3. (3-0). This course involves children's literacy learning and development, as well as the teaching of literacy with a focus on elementary grades, a sound theoretical knowledge of elementary literacy, as well as related practical knowledge of instructional frameworks, teaching strategies, and other classroom applications, recent developments in contemporary literature for children.

Prerequisites: ENGL 1312 and ENGL 3329. Must have earned at least 30 credit hours prior to registering for this course.

ENGL 3329 Principles in Reading and Writing

Cr. 3. (3-0). This course examines evidence-based principles of literacy development and learning in upper elementary school children. Specifically, we will discuss the developmental stages of language, reading, and writing for children in these grade levels and focus on designing, implementing, adapting, and evaluating literacy instruction to meet the needs of all learners, including struggling and gifted readers/writers.

Prerequisites: ENGL 1312. Must have earned at least 30 credit hours prior to registering for this course.

ENGL 3330 Literacy Assessment and Intervention

Cr.3. (3-0). This course focuses on a variety of methods for assessing literacy abilities and recognizing literacy problems. Students will learn how to develop instructional interventions to address identified

areas of need to promote learners' success. Students will practice techniques for diagnosing reading problems as well as instructional strategies for addressing them in the classroom.

Prerequisites: ENGL 1312. Must have earned at least 30 credit hours prior to registering for this course.

ENGL 4324 Methods of Teaching English in Secondary Schools

Cr. 3. (3-0). Focuses on the various components of the English Language Arts curriculum: methodologies, assessment, studies in English language variation, literature, and composition with an emphasis on the knowledge, critical pedagogies and dispositions expected of certified educators. Should be taken the semester prior to student teaching.

Prerequisites: ENGL 1312. Must have earned at least 60 credit hours prior to registering for this course.

ENGL 4327 Special Topics

Cr. 3. Seminar offers a critical examination of a topic within the instructor's field of specialization with emphasis on scholarly analysis and research. May be repeated once for credit when the topic varies.

Prerequisites: ENGL 1312. Must have earned at least 60 credit hours prior to registering for this course.

ENGL 5314 Literary Theory and Criticism.

Cr. 3. (3-0). This course requires reading and study of major developments such as semiotics, psychoanalysis, post-structuralism, post-modernism, reception theory, multicultural and postcolonial studies, feminism, and gender studies, and others. Methods for teaching literary theory and criticism are also addressed.

Prerequisite: ~~Graduate standing~~ None.

ENGL 5315 Literature for Young Adults

(3-0). This course includes advanced study of literature suitable for adolescents. Reading, evaluation and instructional methods are included.

Prerequisite: ~~Graduate standing~~ None.

FINA 1311 Personal Finance

Cr. 3. (3-0). This course provides students with skills to solve real world problems. It focuses on problems and applications related to personal finance, including financial planning, personal investing, budgeting, tax planning, real estate financing, credit management, insurance protection, and retirement and estate planning.

Prerequisite: None.

FINA 3312 Business Finance

Cr. 3. (3-0). This course examines financial principles applicable to the business organization. Topics include risk return trade off, the time value of money, fundamentals of stocks and bonds and their valuation, capital budgeting, dividend and debt policy.

Prerequisites: ACCT 2311, ECON 2311, ~~either~~ and BUSI 2311 or MATH 1312. Must have earned at least 30 credit hours prior to registering for this course.

FINA 3313 Financial Markets and Institutions

Cr. 3. (3-0). This course analyzes asset and liability management for financial institutions. Topics include financial markets such as stocks, bonds, mortgages, derivatives and foreign exchange.

Prerequisites: FINA 3312. Must have earned at least 30 credit hours prior to registering for this course.

FINA 3314 Personal Financial Planning

Cr. 3. (3-0). This course provides principles of personal financial planning and opportunities for students to develop skills for making financial decisions. For effective financial decision-making, course topics will include making informed decisions regarding tax, budgets, investment, insurance, retirement, and estate planning.

Prerequisites: FINA 3312. Must have earned at least 30 credit hours prior to registering for this course.

FINA 4314 Investments

Cr. 3. (3-0). This course focuses on investment theories and their application in terms of selecting assets and securities such as stocks, bonds, and mutual funds. Modern portfolio theory, leverage, and portfolio diversification is also discussed.

Prerequisites: FINA 3312. Must have earned at least 60 credit hours prior to registering for this course.

FINA 4315 Financial Analysis and Valuation

Cr. 3. (3-0). This course analyzes the financial statements of corporations, using analytical tools and methods ranging from ratio computation and cash flow measures to equity valuation. Topics include cash flow analysis, profitability analysis, credit analysis, short-term and long-term forecasting, and equity analysis and valuation.

Prerequisites: FINA 3312. Must have earned at least 60 credit hours prior to registering for this course.

FINA 4316 International Finance

Cr. 3. (3-0). This course focuses on the financial operations of corporations in international financial markets. Topics include forecasting exchange rates in foreign exchange markets, the components of international monetary systems, currency risk management techniques, and global financial decisions.

Prerequisites: FINA 3312. Must have earned at least 60 credit hours prior to registering for this course.

FINA 4319 Financial Management

Cr. 3. (3-0). This course provides an in-depth study of capital budgeting, financing, dividends, and related issues in the context of risk, return, and creation of value in a corporation and other business organizations.

Prerequisites: FINA 3312. Must have earned at least 60 credit hours prior to registering for this course.

FITW 1311 Fitness and Wellness

Cr. 3. (3-0) Introduces the concepts and practice of physical fitness, nutrition, health promotion, disease prevention and stress management. This course and the physical activities students will participate in are designed to assist the student in making intelligent choices that contribute to a healthy lifestyle. Activities emphasizing cardio-respiratory endurance, muscular strength, muscular endurance, flexibility and body composition will be assessed.

Prerequisite: None.

FORS 2329 Forensic Science and Criminal Justice

Cr. 3. (3-0). This course introduces students to the basic principles and uses of forensic science. Study of the application of science to law and the criminal justice system. Overview of disciplines, theories, techniques and practices of which the field of forensic science is comprised. Prior knowledge or background in the forensic sciences is not required.

Prerequisite: None.

FORS 3330 Introduction to Forensic Investigations

Cr. 3. (3-0). Introduction to the development of Forensic Investigations and its contribution to the Criminal Justice System and the applications of the scientific discipline to the examination and analysis of physical evidence.

Prerequisites: CRJS 1301. Must have earned at least 30 credit hours prior to registering for this course.

FORS 3331 Forensic Psychology

Cr. 3. (3-0). An interdisciplinary examination of the relationship between psychiatry, clinical psychology, and the criminal justice system with regard to mentally ill criminal offenders. Focus is on the legal standards for determining various criminal competencies, insanity, diminished capacity, and related defenses of excuse.

Prerequisites: CRJS 1301 and PSYC 2311. Must have earned at least 30 credit hours prior to registering for this course.

FORS 3332 Forensic Biology

Cr. 3. (3-0). An introduction to the basic principles of biology as applied to the field of forensic science. The aim is to use scientific reasoning to draw conclusions and make decisions about forensic techniques, analyses, and results. Topics include the biological features and characteristics of evidentiary materials, as well as the basic principles of chemistry, cell biology, microbiology, and genetics that underlie forensic analyses.

Prerequisites: BIOL 1311. Must have earned at least 30 credit hours prior to registering for this course.

FORS 3435 Investigative Photography

Cr. 3. (3-0). This course covers the operation of various photographic equipment and its application to criminal justice. Topics include using various cameras, proper exposure of film, developing film and prints, and preparing photographic evidence. Upon completion, students should be able to demonstrate and explain the role of photography and proper film exposure as well as development techniques.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

FORS 3436 Criminal Profiling

Cr. 3. (3-0). Study of the differentiation of criminal types in criminal justice policy and practice. Focus on theoretical foundations of typology construction and application of offender typologies and criminological theories to the investigative and adjudication process.

Prerequisites: CRJS 1301. Must have earned at least 30 credit hours prior to registering for this course.

FORS 4333 Digital Forensics

Cr. 3. (3-0). Similar to computer forensics, digital forensics is a branch of forensic science that uses investigative techniques to gather stored data from digital devices. This branch can include cell phones, digital storage devices, computers, and other technological items used by individuals.

Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

FORS 4334 Forensic Studies Experience

Cr. 3. (3-0). This course is structured to provide the basic concepts of analytical chemistry as it applies to drug and body fluid analyses. The course is composed of seven modules. Each module will be

supplemented with figures, animations, links to appropriate websites and self-test questions. A series of case studies will be used to reinforce concepts and to combine individual topics covered in each module.
Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

FORS 4337 Digital Forensics

Cr. 3. (3-0). Similar to computer forensics, digital forensics is a branch of forensic science that uses investigative techniques to gather stored data from digital devices. This branch can include cell phones, digital storage devices, computers, and other technological items used by individuals.

Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

FORS 4338 Serial Murder

Cr. 3. (3-0). Introduction to the origins, nature, and dynamics of serial murder. Review of theory and research on the origins and development of serial murder behavior, the conceptual differences between different types of multiple murder phenomena, gender differences in serial homicide, the role of mental disorder, social and cultural forces, and environmental influences on serial murder, investigating serial murder, understanding victimology, and media attention to serial murder.

Prerequisites: CRJS 1301 and FORS 4333. Must have earned at least 60 credit hours prior to registering for this course.

FORS 4339 Crime Scene Investigations Techniques

Cr. 3. (3-0). This course covers all of the vital components of a crime scene investigation. Participants will learn proper photography techniques, including macro and night photography. Other topics covered include latent print processing, biological, trace, and impression evidence, crime scene sketching, note taking, and report writing. Hands-on exercises will focus on the recognition, documentation, processing, recovery, and preservation of physical evidence. Participants will apply learned techniques through a mock crime scene exercise conducted on the last day of the program.

Prerequisites: CRJS 1301 and FORS 4333. Must have earned at least 60 credit hours prior to registering for this course.

FRSH 1311 Freshman Seminar

Cr. 3. (3-0). This course is a study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning; and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. In addition, the course focuses on numerous college, career, and life management topics necessary for students to make the most of their college investment.

Prerequisite: Freshman students only.

GENG 0001 Lower Beginning Intensive English (Level 1)

This course introduces listening, speaking, reading and writing skills needed for success in an academic environment. Instructional approaches and activities which include pair work, group activities, audio, video and teacher-generated lectures, and student-instructor conferences, will engage the students in listening, speaking, reading and writing activities designed to help learners respond appropriately to a variety of practical everyday contexts such as asking for and giving personal information. Under the close supervision of the instructor, and using the workshop method, students will use ideas and information from beginner text material to create well-formed sentences and fluency in the execution of formal presentations of 2-4 minutes. Both in and out-of-class activities will help students develop strategies to

discuss, challenge and expand ideas contained in text materials. GENG courses cannot be used to matriculate.

Prerequisite: ACCUPLACER™.

GENG 0002 Upper Beginning Intensive English (Level 2)

This course introduces listening, speaking, reading and writing skills needed for success in an English-speaking environment. Instructional approaches and activities which include pair work, group activities, audio, video and instructor-generated lectures, and student-instructor conferences, will engage the students in listening, speaking, reading and writing activities designed to help learners respond appropriately to a variety of practical everyday contexts such as asking for and giving personal information. Under the close supervision of the instructor, and using the workshop method, students will use ideas and information from beginner text material to create well-formed sentences. Both in and out-of-class activities will help students develop strategies to discuss, challenge and expand ideas contained in text materials. GENG courses cannot be used to matriculate.

Prerequisite: ACCUPLACER™ or GENG 0001.

GENG 0003 Lower Intermediate Intensive English (Level 3)

This course introduces and refines listening, speaking, reading and essay writing skills needed for success in an undergraduate academic environment. Through audio and video presentations as well as teacher-generated lectures, students will improve listening comprehension, develop effective note-taking skills, identify verbal and non-verbal cues that signal main ideas and relationship of ideas, deliver formal oral presentations of 2-5 minutes, learn to support their own opinions and respond appropriately to the opinions of others, and practice intermediate grammar structures in discourse. Under the close supervision of the instructor, using the workshop method, students will use academic college-level reading materials to develop critical reading strategies such as previewing, contextualizing, analyzing, evaluating, questioning, synthesizing ideas, summarizing and paraphrasing to create essays of 2-3 paragraphs. Both in and out-of-class activities will help learners develop strategies to discuss, challenge and expand ideas from text materials. GENG courses cannot be used to matriculate.

Prerequisite: ACCUPLACER™ or GENG 0002.

GENG 0004 Upper Intermediate Intensive English (Level 4)

This course introduces and improves listening, speaking, reading and essay writing skills needed for success in an undergraduate academic environment. Through audio and video presentations as well as teacher-generated lectures, students will improve listening comprehension, develop effective note-taking skills, recognize verbal and non-verbal cues that signal main ideas and relationship of ideas, deliver formal oral presentations of 3-5 minutes, learn to support their own opinions and respond appropriately to the opinions of others, and practice intermediate grammar structures in discourse. Under the close supervision of the instructor, using the workshop method, students will use academic college-level reading materials to improve critical reading strategies such as previewing, contextualizing, analyzing, evaluating, questioning, synthesizing ideas, and summarizing and paraphrasing, to create essays of 2-3 paragraphs. Both in and out-of-class activities will help learners practice strategies critical to discussing, challenging and expanding ideas from text materials. GENG courses cannot be used to matriculate.

Prerequisite: ACCUPLACER™ or GENG 0003.

GENG 0005 Lower Advanced Intensive English (Level 5)

This course introduces and refines listening, speaking, reading and essay writing skills needed for success in an academic environment. Through instructional approaches and activities such as pair work, group activities, lectures and student-instructor conferences, learners will increase comprehension, improve note-taking skills, expand vocabulary and increase fluency to deliver formal presentations of 4-6 minutes. Under the close supervision of the instructor, using the workshop method, students will use academic college-level reading materials to improve reading strategies such as previewing, contextualizing, analyzing, evaluating, questioning, synthesizing ideas, and summarizing and paraphrasing, to create essays of 3-4 paragraphs. Both in and out-of-class activities will help learners practice strategies essential to discussing, challenging and expanding ideas contained in text materials. GENG courses cannot be used to matriculate.

Prerequisite: ACCUPLACER™ or GENG 0004.

GENG 0006 Advanced Intensive English (Level 6)

This course refines practical listening, speaking, reading and essay writing skills needed for success in an English environment. Through instructional approaches and activities which include pair work, group activities, academic lectures and materials, and student-instructor conferences, the learner will increase comprehension, improve note-taking skills, and improve accuracy and fluency in speaking to deliver formal presentations of 4-7 minutes. Under the close supervision of the instructor and using the workshop method, students will use college-level text material to analyze, evaluate, summarize, and paraphrase information and ideas to create essays of at least 3 paragraphs. Both in and out-of-class activities will help students to practice strategies that are critical to discussing, challenging and expanding ideas contained in text materials. GENG courses cannot be used to matriculate.

Prerequisite: ACCUPLACER™ or GENG 0005.

GENG 0017 Beginner Medical English/OET Preparation

This course is a 16-week course for students who are medical professionals, and who wish to master specific medical vocabulary and idioms and improve their ability to communicate in English in a hospital or clinical setting. The course covers medical terminology, practice of specialist medical vocabulary, and a review of grammatical structures. The students would work on learning and improving their English language understanding of human anatomy and physiology. In addition, the course includes patient interaction language, taking patient medical history, emergency care (vocabulary and interactions), presentation skills development, and a review of the U.S. healthcare system.

Prerequisite: ACCUPLACER™.

GENG 0018 Advanced Medical English/OET Preparation

This course is a 16-week course for students who are medical professionals, and who wish to master specific medical vocabulary and idioms and improve their ability to communicate in English in a hospital or clinical setting. The course covers in-depth medical terminology, practice of specialist medical vocabulary, and a review of grammatical structures. The students would work on learning and improving their English language understanding of human anatomy and physiology. In addition, the course includes advanced patient interaction language, taking patient medical history, emergency care (vocabulary and interactions), presentation skills development, and a review of the U.S. healthcare system.

Prerequisite: GENG 0017.

GEOG 2312 Regional Geography of the World

Cr. 3. (3-0). This course is an introduction to the world's major regions seen through their defining physical, social, cultural, political, and economic features. These regions are examined in terms of their physical and human characteristics and their interactions. The course emphasizes relations among regions on issues such as trade, economic development, conflict, and the role of regions in the globalization process.

Prerequisite: None.

GEOG 1311 Earth Science

Cr. 3. (3-0). Introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations.

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

GOVT 2311 U.S. Government I

Cr. 3. (3-0). Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. (GOVT 2311 and GOVT 2312 can be taken in any order).

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

GOVT 2312 U.S. Government II

Cr. 3. (3-0). Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas. (GOVT 2311 and GOVT 2312 can be taken in any order).

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

HIST 1311 U.S. History I

Cr. 3. (3-0). A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government. (HIST 1311 U.S. History I and HIST 1312 U.S. History II can be taken in any order).

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

HIST 1312 U.S. History II

Cr. 3. (3-0). A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and

human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy. (HIST 1311 U.S. History I and HIST 1312 U.S. History II can be taken in any order).

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

HIST 2314 History of Texas

Cr. 3. (3-0). A survey of the political, social, economic, cultural, and intellectual history of Texas from the pre-Columbian era to the present. Themes that may be addressed in Texas History include: Spanish colonization and Spanish Texas; Mexican Texas; the Republic of Texas; statehood and secession; oil, industrialization, and urbanization; civil rights; and modern Texas.

Prerequisite: None.

IENG 0001 Lower Beginning Intensive English (Level 1)

This course introduces listening, speaking, reading and writing skills needed for success in an academic environment. Instructional approaches and activities which include pair work, group activities, audio, video and teacher-generated lectures, and student-instructor conferences, will engage the students in listening, speaking, reading and writing activities designed to help learners respond appropriately to a variety of practical everyday contexts such as asking for and giving personal information. Under the close supervision of the instructor, and using the workshop method, students will use ideas and information from beginner text material to create well-formed sentences. Both in and out-of-class activities will help students develop strategies to discuss, challenge and expand ideas contained in text materials and compose a coherent paragraph. Exit exam required. Credit earned cannot be used for graduation.

Prerequisite: ACCUPLACER™.

IENG 0002 Upper Beginning Intensive English (Level 2)

This course introduces listening, speaking, reading and writing skills needed for success in an academic environment. Instructional approaches and activities which include pair work, group activities, audio, video and teacher-generated lectures and student-instructor conferences, will engage the students in listening, speaking, reading and writing activities designed to help learners respond appropriately to a variety of practical everyday contexts such as asking for and giving personal information. Under the close supervision of the instructor, and using the workshop method, students will use ideas and information from beginner text materials to create well-formed sentences. Both in and out-of-class activities will help students develop strategies to discuss, challenge and expand ideas contained in text materials and compose a well-developed coherent paragraph. Exit exam required. Credit earned cannot be used for graduation.

Prerequisite: ACCUPLACER™ or IENG 0001.

IENG 0003 Lower Intermediate Intensive English (Level 3)

This course introduces and refines listening, speaking, reading and essay writing skills needed for success in an undergraduate academic environment. Through audio and video presentations as well as teacher-generated lectures, students will improve listening comprehension, develop effective note-taking skills, recognize verbal and non-verbal cues that signal main ideas and relationship of ideas, deliver formal oral presentations of 3-4 minutes, learn to support their own opinions and respond appropriately to the opinions of others, and practice intermediate grammar structures in discourse. Under the close supervision of the instructor, using the workshop method, students will use academic college-level reading materials to develop critical reading strategies such as previewing, contextualizing, analyzing, evaluating, questioning,

synthesizing ideas, summarizing and paraphrasing to create essays of 2-3 paragraphs. Both in and out-of-class activities will help learners develop strategies to discuss, challenge and expand ideas from text materials. Exit exam required. Credit earned cannot be used for graduation.

Prerequisite: ACCUPLACER™ or IENG 0002.

IENG 0004 Upper Intermediate Intensive English (Level 4)

This course introduces and refines listening, speaking, reading and essay writing skills needed for success in an undergraduate academic environment. Through audio and video presentations as well as teacher-generated lectures, students will improve listening comprehension, develop effective note-taking skills, recognize verbal and non-verbal cues that signal main ideas and relationship of ideas, deliver formal oral presentations of 3-5 minutes, learn to support their own opinions, and respond appropriately to the opinions of others, and practice intermediate grammar structures in discourse. Under the close supervision of the instructor, using the workshop method, students will use academic college-level reading materials to improve critical reading strategies such as previewing, contextualizing, analyzing, evaluating, questioning, synthesizing ideas, and summarizing and paraphrasing, to create essays of 3 paragraphs. Both in and out-of-class activities will help learners practice strategies critical to discussing, challenging and expanding ideas from text materials. Exit exam required. Credit earned cannot be used for graduation.

Prerequisite: ACCUPLACER™ or IENG 0003.

IENG 0005 Lower Advanced Intensive English (Level 5)

This course introduces and refines listening, speaking, reading and essay writing skills needed for success in an academic environment. Through instructional approaches and activities such as pair work, group activities, lectures and student-instructor conferences, learners will increase comprehension, improve note-taking skills, expand vocabulary and increase fluency to deliver formal presentations of 4-6 minutes. Under the close supervision of the instructor, using the workshop method, students will use academic college-level reading materials to improve reading strategies such as previewing, contextualizing, analyzing, evaluating, questioning, synthesizing ideas, and summarizing and paraphrasing, to create essays of 3-5 paragraphs. Both in and out-of-class activities will help learners practice strategies essential to discussing, challenging and expanding ideas contained in text materials. Exit exam required. Credit earned cannot be used for graduation.

Prerequisite: ACCUPLACER™ or IENG 0004.

IENG 0006 Advanced Intensive English (Level 6)

This course refines listening, speaking, reading and essay writing skills needed for success in an academic environment. This course introduces and refines listening, speaking, reading and essay writing skills needed for success in an academic environment. Through instructional approaches and activities which include pair work, group activities, academic lectures and materials, and student-instructor conferences, the learner will increase comprehension, improve note-taking skills, expand vocabulary, and improve accuracy and fluency in speaking to deliver formal presentations of 4-7 minutes. Under the close supervision of the instructor and using the workshop method, students will use college-level text material to analyze, evaluate, summarize, paraphrase, and synthesize information and ideas to create essays of 3-5 paragraphs. Both in and out-of-class activities will help students to practice strategies that are critical to discussing, challenging and expanding ideas contained in text materials. Exit exam required. Credit earned cannot be used for graduation.

Prerequisite: ACCUPLACER™ or IENG 0005.

IENG 0007 Beginner TOEFL Preparation Course

Intermediate This course is designed to provide students the skills necessary for the TOEFL iBT which measures the English language skills of non-native speakers of English. Colleges and universities, as part of their admissions, require English language proficiency. It is a program focusing on effective techniques and strategies for taking the Internet-based test (iBT), including practice tests with integrated tasks in speaking, listening, reading and writing. In addition, throughout the course, grammar, vocabulary building, idiomatic expressions and pronunciation will be emphasized with the purpose of giving students the ability to produce language pragmatically.

Prerequisite: ACCUPLACER™ or IENG 0005.

IENG 0008 Advanced TOEFL Preparation Course

This course is designed to provide students with individualized TOEFL IBT instruction through sample and authentic TOEFL exercises, and with a heavy focus on academic topics relevant to TOEFL IBT test content. This course's goal is two-fold. First, it is designed to help learners build a substantial foundation for academic skills required to succeed in academy as well as to increase learners' English language proficiency in four major skills (reading, listening, speaking and writing) in academic contexts. Second, this course aims to provide strategy training to help learners get acceptable TOEFL scores to study in U.S. universities. In this class, students are expected to actively participate in the classroom activities (speaking tasks, discussion, group works, mock exams) and do assigned tasks on a timely manner. Also, in this class students will rehearse multiple test-taking situations in a controlled classroom environment that aims to increase their comprehension, accuracy, and test-taking skills.

Prerequisite: ACCUPLACER™, IENG 0005, or IENG 0007.

IENG 0009 Fundamentals of Critical Reading and Writing (Level 9)

This course surveys a variety of reading materials. Students will locate explicit textual information, draw complex inferences, and describe, analyze, and evaluate the information across multiple texts of varying lengths. Students will explore a variety of writing modalities, generate ideas and gather information relevant to the topic and purpose, incorporating the ideas of other writers in student writing using established strategies. Credit earned cannot be used for graduation. Successful completion of this course will prepare students for entry into ENGL 1311.

Prerequisite: IENG 0006, 61 TOEFL, or 5.5 IELTS.

IENG 0010 SAT Preparation Course Advanced

This class is designed to prepare students for the Scholastic Aptitude Test (SAT) This course will teach students the format of the test and provide both strategies and practice for questions on critical reading, sentence completion, grammar, usage, and writing. Our primary goal is to identify and implement test taking strategies using prerequisite knowledge to increase student performance.

Prerequisite: ACCUPLACER™ or IENG 0005.

IENG 0011 ACT Preparation Course Advanced

This class is designed to prepare students for the ACT test. This course will teach students the format of the test and provide both strategies and practice for questions on critical reading, sentence completion, grammar, usage, and writing. Our primary goal is to identify and implement test taking strategies using prerequisite knowledge to increase student performance.

Prerequisite: ACCUPLACER™ or IENG 0005.

IENG 0012 English for Specific Purpose

Intermediate & Advanced The course introduces students to English for Specific Purposes (ESP), a learner-centered approach to teaching English as a foreign and second language. It explores methodologies that cater the needs of learners who need to learn a foreign or a second language for use in their specific fields, such as science, technology, medicine, leisure, and academic learning. It also sharpens language skill through the use of discipline-based materials for the development of academic proficiency in academic studies or the teaching of English for academic and occupational purposes.

Prerequisite: High Intermediate to Advanced English Language Skills.

IENG 0013 IELTS Preparation Course Advanced

This course helps learners develop detailed knowledge of the English skills and strategies needed to successfully pass the IELTS exam as well as other English proficiency tests. It emphasizes improvement of academic English in addition to the linguistic aspects of the course. There are four parts to the IELTS exam: Listening, Reading, Writing and Speaking. All students take the same Listening and Speaking exams, while the Reading and Writing exams are available in both Academic and General formats. The Academic Reading and Writing exam assesses whether a candidate is ready to study in English. The General exam focuses on basic survival skills in broad social and educational contexts and is taken by candidates who are going to English-speaking countries for work experience, non-degree level training or immigration. The course includes vocabulary and grammar tasks, skill-building and exam practice. It consists of four modules with corresponding exercises, tasks and practice tests.

Prerequisite: ACCUPLACER™ or IENG 0005.

IENG 0014 GMAT Preparation Course Advanced

This course focuses on thoroughly familiarizing students with the level, format, content and the computer adaptive nature of the test and on teaching students' strategies for all three sections (Analytical Writing Assessment, Quantitative, and Verbal) of the test. Students will learn time saving tactics to enhance the score on every section of the exam. Prepare further by reviewing basic mathematical and reading comprehension methods. By the end of this course, students will have developed techniques to help solve logistical and comprehension questions quickly and accurately.

Prerequisite: ACCUPLACER™ or IENG 0006.

IENG 0015 GRE Preparation Course Advanced

This course is tailored to busy individuals. Gulf Language School will teach students what they need to know in the least amount of time. The course consists of a mix of lectures and exercises in each session, with ample time allotted for answering sample questions and receiving personalized attention from the instructors. The course is structured so that both the novice and expert test-takers will learn valuable techniques for eliminating wrong answers and choosing correct ones. Each question is discussed in-depth with a step-by-step analysis of the thought processes required to arrive at the correct solution.

Prerequisite: ACCUPLACER™ or IENG 0006.

MATH R300 Fundamentals of Mathematics

Cr. 3. (3-0). This course reviews basic arithmetic skills and pre-algebra, and elementary algebra topics that are required for the College Algebra course.

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

Outcome: Pass/Fail.

MATH 1311 College Algebra

Cr. 3. (3-0). In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

MATH 1312 Statistics

Cr. 3. (3-0). This course covers data collection, frequency distributions, probability and probability distributions, sampling and sampling distributions, hypothesis testing with applications in various fields, regression and correlation analysis.

Prerequisite: MATH 1311.

MATH 1313 Pre-Calculus

Cr. 3. (3-0). In-depth combined study of algebra, trigonometry, and other topics for calculus readiness.

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

MATH 2314 Calculus I

Cr. 3. (3-0). Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas.

Prerequisite: MATH 1313.

MATH 2315 Calculus II

Cr. 3. (3-0). This course teaches Calculus of transcendental functions: methods of integration and applications of integration, indeterminate forms, improper integrals, infinite series, parametric equations, and polar coordinates.

Prerequisite: MATH 2314.

MATH 2316 Linear Algebra

Cr. 3. (3-0). This course focuses on systems of linear equations, vector spaces, linear transformations, matrices, and determinants.

Prerequisite: MATH 1311.

MATH 2317 Discrete Mathematics

This course introduces basic concepts of mathematics and mathematical reasoning and provides an introduction to discrete concepts such as finite sets and structures, and their properties and applications. Topics include, but are not restricted to principals of counting, combinatorics, logic, sets, relations, functions, induction and other methods of proof, recursion, and graph theory.

Prerequisite: MATH 1311.

MATH 3318 Geometry and Trigonometry

Cr. 3. (3-0). This course delves into Euclidean geometry-axioms and proofs, lines and triangles; trigonometric functions and the study of transformations-translations, rotations, reflections, dilations and symmetry. The curriculum also covers coordinate geometry, vectors and matrices, non-Euclidean geometry and problem solving.

Prerequisites: MATH 1311. Must have earned at least 30 credit hours prior to registering for this course.

MATH 3319 Statistics and Probability

Cr. 3. (3-0). This course is an overview of probability and statistics. Topics included are probability theory, random variables, discrete and continuous random variables, the central limit theorem, sampling, estimation, hypothesis testing, confidence intervals, and analysis of variance.

Prerequisites: MATH 2314. Must have earned at least 30 credit hours prior to registering for this course.

MATH 3320 Differential Equation

Cr. 3. (3-0). This course is an introduction to ordinary differential equations of first order, higher order linear equations, Laplace transform methods. There are three main aspects we will be concerned with: 1) how to solve them, 2) how to interpret the solutions, and 3) how to apply them to solve real world problems.

Prerequisites: MATH 2315. Must have earned at least 30 credit hours prior to registering for this course.

MATH 3326 Introduction to Number Theory

Cr. 3. (3-0). This course introduces prime numbers and the fundamental theorem of arithmetic. Topics include, but are not limited to induction, well-ordering, division algorithm, Euclidean algorithm, number theoretic functions and congruencies.

Prerequisites: MATH 1311. Must have earned at least 30 credit hours prior to registering for this course.

MATH 3328 Teaching Elementary School Mathematics I

Cr. 3. (3-0). This course introduces elementary, ESOL, & Exceptional Student Education methods for teaching, diagnosing, and remediating problem solving; numeration systems; whole number concepts and computation; fraction, decimal, and percent concepts and computation. It includes research perspectives.

Prerequisites: MATH 1311. Must have earned at least 30 credit hours prior to registering for this course.

MATH 3329 Teaching Elementary School Mathematics II

Cr. 3. (3-0). This course introduces methods for teaching informal geometry, measurement, probability, statistics, and algebraic thinking for elementary school (K – 6) classrooms.

Prerequisites: MATH 3328. Must have earned at least 30 credit hours prior to registering for this course.

MATH 4322 Teaching Problem Solving in Mathematics

Cr. 3. (3-0) This course introduces techniques of teaching mathematics to produce deeper levels of conceptual and procedural understanding. Topics include the methodology of absorbing new ideas, efficient and accurate calculation, the formulation of alternate solutions; and addressing the five critical mathematical processes, which include communication and problem solving.

Prerequisites: MATH 1311. Must have earned at least 60 credit hours prior to registering for this course.

MATH 4324 Teaching Secondary School Mathematics

Cr. 3. (3-0). This course focuses on methods, techniques and evaluative instruments applicable to the teaching of secondary school mathematics.

Prerequisites: MATH 1311. Must have earned at least 60 credit hours prior to registering for this course.

MATH 5312 Geometry and Trigonometry for Teachers

Cr. 3. (3-0). This course delves into Euclidean geometry-axioms and proofs, lines and triangles; trigonometric functions and the study of transformations-translations, rotations, reflections, dilations and symmetry. The curriculum also covers coordinate geometry, vectors and matrices, non-Euclidean geometry and problem solving. Dynamic mathematics software is used to construct activities related to previously mentioned topics.

Prerequisite: None.

MATH 5313 Advanced Calculus

Cr. 3. (3-0). Functions of several variables, differentiation, composite and implicit functions, maxima and minima, differentiation under the integral sign, line integrals, Green's theorem. Vector field theory: gradient, divergence and curl, divergence theorem. Stokes' theorem, applications. Review of general theory of sequences and series. Additional reading on selected topics.

Prerequisite: ~~Graduate standing~~ and MATH 2315 or equivalent, or consent of graduate advisor.

MBA 5311 Managerial Economics

Cr. 3. (3-0). Managerial Economics is the application of economic theory and methodology to formulating rational managerial decisions. Topics include a thorough supply and demand analysis and forecasting demand, the theory of individual behavior, production process and cost, profit maximization under various market structures and game theory. The course will offer a comprehensive treatment of economic theory and analysis, using both qualitative and quantitative tools and techniques.

Prerequisite: None.

MBA 5312 Accounting for Managers

Cr. 3. (3-0). This course provides an advanced treatment to the accounting principles, concepts, procedures and techniques underlying financial and managerial accounting and budgeting. The emphasis of the course is on business and economic information generated in the accounting process and a study of their behavior for planning and control decisions.

Prerequisite: None.

MBA 5313 Statistics for Business Decision Making

Cr. 3. (3-0). The course will provide an in-depth study of descriptive statistics, statistical sampling and estimation, exponential families and sufficient statistics, maximum likelihood estimation, confidence intervals and hypothesis testing, linear regression and linear models, and multiple examples of applied statistics for business decision making.

Prerequisite: None.

MBA 5314 Marketing Management

Cr. 3. (3-0). This course develops the marketing principles by which products and services are designed to meet customer needs, priced, promoted, and distributed to the end user. The focus is on the application of these marketing principles to a wide range of customers, both internal and external. Topics include

consumer behavior; market segmentation and target market selection, and management of marketing mix variables such as product, price, placement, and promotion.

Prerequisite: None.

MBA 5315 Leadership in Organizations

Cr. 3. (3-0). This course provides students with in-depth knowledge on the various leadership theories and insight into effective leadership practices. Topics include management versus leadership, traits and characteristics of leaders, leadership attitudes and styles, situational leadership theories, power and influence, and motivation and coaching skills for leaders.

Prerequisite: None.

MBA 5316 Management and Organizational Theory

Cr. 3. (3-0). This course examines the four functions of management planning, organizing, leading, and controlling with emphasis on the application of management concepts and theories to achieve organizational goals. It also provides tools for understanding how organizations form, survive and grow, interact with each other, recruit and process members, gain and manage resources, and deal with both internal and external problems.

Prerequisite: None.

MBA 5317 Business Policy and Strategy

Cr. 3. (3-0). This course focuses on how managers formulate strategic decisions and manage the strategy implementation process. Using integrative analysis (from other core course, such as accounting, finance and marketing) and case studies this course will explore the process of developing and managing business strategies. Topics will include development of corporate goals and objectives, competitive analysis, business and corporate level strategies, and organizational systems design for plan implementation.

Prerequisite: Last semester of study or approval of graduate director.

MBA 5318 Project Management

Cr. 3. (3-0). This course covers the tools and techniques required for project management. Topics include project selection, project planning, budgeting, scheduling, resource allocation, project control, project crashing, and project termination and tools such as work breakdown structures, network diagrams, and performance measurement. Students will also acquire soft skills to become effective project managers and apply both soft and technical skills in real projects.

Prerequisite: None.

MBA 5319 Financial Management

Cr. 3. (3-0). This course provides an in-depth study of capital budgeting, financing, dividends, and related issues in the context of risk, return, and creation of value in a corporation and other business organizations.

Prerequisite: MBA 5312 or concurrent enrollment, or approval of graduate director.

MBA 5332 Creativity, Innovation and Design

Cr. 3. (3-0). This course will focus on developing new ways of design thinking, the most important element of a creative culture in a dynamic business world. The course helps students to recognize the method and application of design as an alternative management approach for business leaders in a

competitive environment. Also, new ways of design thinking through class exercises and a course project will be developed, where students will develop creative concepts for an assigned topic.

Prerequisite: None.

MBA 5341 Health Care Systems

Cr. 3. (3-0). This course will examine how health care is organized and delivered in the U.S. and around the world. The course will cover the history and emergence of health systems and the roles of various people, organizations, and industries that create and shape health care systems. Students will also explore: the health care workforce, major concepts of health care operations and business activities; ethical and legal issues; and, challenges health care systems face today.

Prerequisite: None.

MBA 5342 HRM in Health Care

Cr. 3. (3-0). This course will examine each area of HRM and the key function it plays in the health care environment. The course will focus on key HRM practices (analyzing and designing jobs, HR planning, recruiting, selection, training & development, performance management, compensation, and employee relations) and how these support important initiatives in health care systems and impact health care organizations' ability to achieve high levels of quality and performance. It also examines the legal environment in which health care employees, managers, and administrators operate.

Prerequisite: None.

MBA 5343 Health Care Finance

Cr. 3. (3-0). In this course students will examine essential areas of healthcare financial management, such as cash flow, financial statements, billing, collections, and capital investments. Students will also explore approaches managers and investors use to make finance and investment decisions in the health care sector. Investment criteria and strategic alternatives, such as mergers & acquisitions, joint ventures, and LBOs will be discussed; and, students will be exposed to the dynamic and complex health care environment in which finance and investment decisions are made including developments in health care laws and regulations.

Prerequisite: MBA 5319.

MBA 5352 Managerial Decision Models and Simulation

Cr. 3. (3-0). This course examines the tools and techniques to solve managerial decision models that represent real-world business problems and identify their managerial implications. The course focuses on the use of Excel to apply tools including optimization modeling, simulation, and decision trees.

Prerequisite: None.

MBA 5355 Data Analysis and Forecasting

Cr. 3. (3-0). The course presents statistical techniques that extend the ideas of prediction-based statistical tools. These extensions include finding relationships among variables and methods for building regression models from large collections of predictors. Time series analysis, forecasting models and data mining will also be introduced with real life business examples and case studies. The course focuses on the practical use of modern methodologies associated with data analysis and decision making.

Prerequisite: MBA 5313 or approval of graduate director.

MBA 5361 Operations Management

Cr. 3. (3-0). This course will survey approaches and techniques used in the analysis, design and management of production operations and supply chain processes. Students will explore forecasting, demand management, MPS, aggregate planning, MRP, category management, EOQ models, supplier relationship management, supply cycle, source-to-pay and contracting principles. Students will also examine JIT, Lean operations, supply chain best practices, risk management, sustainability and CSR to better understand the relationship of enterprise-level planning and systems to the overall flow of materials and production.

Prerequisite: MBA 5312.

MBA 5362 Quality Management and Control

Cr. 3. (3-0). This course will examine systems, methods, and tools used to monitor, control and improve quality in organizations. The course will focus on topics such as the historical development of quality management, costs and consequences related to quality, quality certifications, TQM, Six Sigma, and basic problem-solving tools for quality. Emphasis will also be given to inspections, statistical process control, and process capability.

Prerequisite: None.

MBA 5363 Logistics and Transportation Management

Cr. 3. (3-0). In this course students will examine activities involved in the global transfer of goods and services. Students will examine logistic services, logistic network design, reverse logistics, transportation modes, multimodal transport, optimization of transportation processes, and transport infrastructure. Emphasis will be placed on international and ethical considerations of moving goods and services through an organization's input, transformation, and output processes to the end customer.

Prerequisite: None.

MBA 5399 Internship

Cr. 3. (0-0-3). This course is designed to enable Master of Business Administration students to gain practical experience that supplements their coursework. It helps students apply their knowledge into real-world problems in professional settings. Students recognize the need for continuous learning and experience the challenges of workplace environment.

Prerequisites: Completion of the first semester and MBA coordinator approval.

MNGT 2311 Management & Organizational Behavior

Cr. 3. (3-0). This course examines tools for understanding the management process, organizational structure and corporate culture. It also relates theory and research to organizational problems by reviewing concepts in individual behavior, motivation and performance, communication, conflict and negotiation, teamwork dynamics and decision-making.

Prerequisite: None.

MNGT 4314 Small Business Management

Cr. 3. (3-0). This course examines the economic and social environment in which small businesses function, and the critical role of entrepreneurship in fostering business growth and development. Topics include facts about going into business, conducting a feasibility study, financing a business, essential management skills, marketing strategies and legal issues.

Prerequisites: MNGT 2311. Must have earned at least 60 credit hours prior to registering for this course.

MNGT 4315 Leadership in Organizations

Cr. 3. (3-0). This course provides students with in-depth knowledge on the various leadership theories and insight into effective leadership practices. Topics include management versus leadership, traits and characteristics of leaders, leadership attitudes and styles, situational leadership theories, power and influence, and motivation and coaching skills for leaders.

Prerequisites: MNGT 2311. Must have earned at least 60 credit hours prior to registering for this course.

MNGT 4316 Human Resource Management

Cr. 3. (3-0). This course is designed to introduce the field of Human Resource Management (HRM) and focuses on theories, principles, and practices of Human Resources Management (HRM) in organizations. Topics include human resource management functions such as recruitment, selection, training, performance management, motivation, communication, legal environment, benefits and compensation.

Prerequisites: MNGT 2311. Must have earned at least 60 credit hours prior to registering for this course.

MNGT 4318 Project Management

Cr. 3. (3-0). This course introduces the basic concepts of project management and tools and techniques to effectively manage projects. Topics include project selection, project planning, budgeting, scheduling, resource allocation, project control and project termination. Tools such as work breakdown structures, network diagrams, project crashing will also be covered.

Prerequisites: MNGT 2311. Must have earned at least 60 credit hours prior to registering for this course.

MNGT 4319 Managerial Decision Models and Simulation

Cr. 3. (3-0). This course introduces quantitative and analytical methods for modeling to solve business problems. Tools such as linear programming, integer programming, network flow models and decision analysis are examined.

Prerequisites: MNGT 2311 and BUSI 2311. Must have earned at least 60 credit hours prior to registering for this course.

MNGT 4320 Global Supply Chain Management

Cr. 3. (3-0). This course introduces supply chain management in a competitive business environment. It involves coordinating and improving the flow of goods, services, information, and funds within companies and around the world, from raw materials to the final end user. This course integrates operations management, logistics, and computer information systems. Topics include relationship management, transportation and distribution, inventory control, purchasing, forecasting, production management, and the impact of technology on supply chain management

Prerequisites: MNGT 2311. Must have earned at least 60 credit hours prior to registering for this course.

MRKT 2311 Principles of Marketing

Cr. 3. (3-0). This course introduces marketing concepts and their application in the marketing of products, services, ideas, and organizations. Topics include consumer behavior; market segmentation and target market selection, and management of marketing mix variables such as product, price, placement, and promotion.

Prerequisite: None.

MRKT 4312 International Marketing

Cr. 3. (3-0). This course introduces characteristics of global marketing and the strategic marketing decisions for effective competition in the global environment. Topics include planning and organizing for international marketing operations, distinctive characteristics, environmental influences, and emerging trends in overseas markets.

Prerequisites: MRKT 2311. Must have earned at least 60 credit hours prior to registering for this course.

PCP 0001 Principal Exam and PASL Prep Course

This course is designed to prepare principal certification candidates in Texas for success on both the TExES Principal as Instructional Leader (268) exam and the Performance Assessment for School Leaders (PASL). Students will review the Texas standards for school leaders as well as the domains and competencies required of principals.

Prerequisite: None.

PHED 2311 Foundation of Kinesiology

Cr. 3. This course is designed to study the foundations that underlying the scientific basis of kinesiology. Students are introduced to the skills and knowledge to become a successful practitioner or teacher in the study of human movements, musculoskeletal actions, analysis of sports skills, training, and conditioning techniques.

Prerequisite: None.

PHED 2312 The concepts of Health, Fitness and Wellness

Cr. 3. This course is a study of basic fitness and wellness components to ensure that the student can develop basic fitness programs and has knowledge of basic wellness concepts.

Prerequisite: None.

PHED 2313 Physiology of Exercise

Cr. 3. This course investigates physiological mechanisms responsible for adaptations to acute and chronic exercise in the metabolic, endocrine, pulmonary, cardiovascular, and neuromuscular systems.

Prerequisite: ~~none~~ None.

PHED 2314 Motor Learning and Development

Cr. 3. This course is a study of the development of human motor performance by exploring theories of learning as they apply to the acquisition of gross motor skills.

Prerequisite: None.

PHED 2315 Physical Activity Skills: Conditioning, Individual and team Sports

Cr. 3. The purpose of this course is to develop the techniques for sports conditioning and fundamental skills used in teaching individual/dual/or group sports. This course will also focus on the various stages of games skill development for a variety of activities.

Prerequisite: None.

PHED 3311 Health and Physical Education for Children

Cr. 3. (3-0). This course covers knowledge and experiences in planning and implementing developmentally appropriate health and physical education programs for children in elementary schools, providing health information appropriate for children, and principles of kinesiology.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

PHED 3316 Care and Prevention of Athletic Injuries

Cr. 3. The purpose of this course is to provide entry-level knowledge in the field of sport related injuries. This course includes units dealing with the history of athletic training, basic anatomy of common injuries, evaluation techniques, preventive measures to reduce the incidences of injuries and knowledge of basic treatment procedures to be used after injuries occur. Legal and ethical issues will also be discussed.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

PHED 3317 Health, Emergency Care and First Aid

Cr. 3. This course will introduce the knowledge and skills necessary to be effective in providing safe environments and as a first responder to accidents and/or sudden illness. Lifesaving skills, accident prevention principles.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

PHED 3318 Scientific Principles of Physical activity

Cr. 3. This course is designed to provide information related to the need for continuing physical activity and its contribution to human well-being, including procedures for assessing fitness levels in the various components of physical fitness and techniques used in developing physical fitness among students.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

PHED 3319 Strategies & Principles of Coaching

Cr. 3. This course is designed to increase awareness and basic knowledge of coaching principles. Emphasis will be placed on both the science and art of coaching. Students will be challenged to develop personal coaching philosophies that complement their individual attributes.

Prerequisite: Must have earned at least 30 credit hours prior to registering for this course.

PHED 4320 Physical Education Teaching Methods

Cr. 3. This course is to provide prospective physical education teachers with opportunities to learn about, plan, and implement instructional, motivational, management, and assessment strategies to develop the healthful living curriculum, with primary focus on physical education, in the K-12 schools. The course also provides policies, practices, principles, and instructional methodologies for special populations.

Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

PHIL 1311 Introduction to Logic and Critical Thinking

Cr. 3. (3-0). This course in critical thinking and informal logic focuses on developing the critical and creative thinking skills necessary to analyze and solve problems, make decisions, implement strategies, and formulate well-supported points of view on key academic, social, and professional issues. It includes an introduction to the disciplines of inductive and deductive logic, fallacious reasoning, and perception

process, use of assumptions, emotional influences, and language in various forms of business communication. Students will learn how to evaluate their ideas and how to communicate their points of view persuasively.

Prerequisite: None.

PHIL 1312 Professional Ethics

Cr. 3. (3-0). This course, as an introduction to ethical decision-making in professional life, examines individual, organizational, and macro-level issues in different professions. Both descriptive and normative models of unethical and ethical decision making are analyzed to help students make more informed ethical decisions.

Prerequisite: None.

PHIL 1313 Introduction to Philosophy

Cr. 3. (3-0). A study of major issues in philosophy and/or the work of major philosophical figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications.

Prerequisite: None.

PSYC 2311 General Psychology

Cr. 3. (3-0). General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

SOCI 2311 Introduction to Sociology

Cr. 3. (3-0). The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance.

Prerequisite: None.

Course Materials: Free digital textbook and course materials.

SOCS 4311 Concepts for Teaching the Social Science

Cr. 3. (3-0). Philosophical foundations of social science, inquiry; relationships among and between social science disciplines and other content areas; and skills for resolving conflicts, solving problems, and making decisions in social studies context. In addition, students will learn about social science and historical research methods, including procedures for formulating research questions and for organizing, analyzing, evaluating, and reporting information.

Prerequisite: Must have earned at least 60 credit hours prior to registering for this course.

SPAN 1311 Elementary Spanish

Cr. 3. (3-0). Basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level.

Prerequisite: None.