

# UNDERGRADUATE AND GRADUATE COURSE DESCRIPTIONS FOR THE 2024-25 ACADEMIC YEAR

## **ACCT: Accounting**

### **ACCT 201 INTRODUCTION TO FINANCIAL ACCOUNTING (3)**

A comprehensive study of basic financial accounting processes applicable to a service, merchandising, and manufacturing business. An analysis of transactions, journalizing, posting, preparation of working papers and financial statements.

### **ACCT 202 INTRODUCTION TO MANAGERIAL ACCOUNTING (3)**

An introductory study of managerial accounting processes including job order costing, process costing, cost-volume-profit analysis, standard costs, activity-based costing, cost analysis, budgeting, and managerial decision making. Prerequisite: ACCT 201 or equivalent with a minimum grade of C.

### **ACCT 301 INTERMEDIATE ACCOUNTING I (3)**

The first course of the three-semester sequence of intermediate financial accounting. This course focuses on a comprehensive review of issues related to the reporting and analysis of financial accounting information. Topics include financial accounting standard setting, the conceptual framework underlying financial accounting, balance sheet and income statement presentations, revenue and expense recognition, and accounting for current assets and current liabilities. Data analytics is used to analyze data and present findings. Prerequisite: ACCT 202 with a minimum grade of C.

### **ACCT 302 INTERMEDIATE ACCOUNTING II (3)**

This class is the second course of the three-semester sequence of intermediate financial accounting. This course focuses on issues related to the reporting and analysis of financial accounting information. The objective in this course is to examine in detail (with an emphasis on both the "what" and the "why") the following financial topics: 1) Operational Assets 2) Time value of money 3) Bonds and long term notes 4) Leases 5) Employee benefits and pensions. Prerequisite: ACCT301 or equivalent with a minimum grade of C.

### **ACCT 306 COST ACCOUNTING (3)**

A study of cost behavior, overhead cost allocations, cost systems design, and an introduction to activity-based costing and control systems. Emphasis is on case studies and other practical applications.

Prerequisite: ACCT 202 with minimum grade of C.

### **ACCT 310 INTERMED ACCOUNTING III (3)**

The third course in a three-course sequence for accounting majors. A comprehensive view of financial accounting concepts and principles, an intensive look at the nature and determination of the major financial statements, and an examination of current accounting practice, theory, and literature. Topics include shareholders' equity, investments, income taxes, earnings per share, accounting changes, error analysis, and statement of cash flows. Prerequisite: ACCT 302 or equivalent with a minimum grade of C.

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### **ACCT 317 ACCOUNTING INFORMATION SYSTEMS (3)**

A study of fundamental accounting system concepts, the utilization of accounting system technology to establish security and controls, accounting system development, documentation and data base implementation and the internal controls of accounting information. SQL and Python languages will be used to perform accounting information systems (AIS) tasks on the revenue, expense, production and payroll cycles. Prerequisite ACCT 202.

### **ACCT 401 AUDITING (3)**

A study of generally accepted auditing standards with emphasis on professional standards, planning, internal control, audit evidence, audit sampling and standard reports for the various attestation functions. Prerequisites: ACCT 302 with a minimum grade of C or permission of instructor.

### **ACCT 402 SEMINAR IN ASSURANCE SERVICES (3)**

A study of auditing and other assurance services with an emphasis on the world of auditing that exists outside of the college textbook. Special emphasis is given to legal liability, audits of SEC registrants, in depth study of financial statements fraud, auditing complex accounting estimates, and other assurance services (internal audit or government financial statements audits). A case study approach is used to attempt to create a realistic view of how an auditor organizes and carries out an audit examination.

Prerequisites: OPRE 202 and ACCT 401 or equivalent with a minimum grade of C.

### **ACCT 403 ADVANCED FINANCIAL REPORTING (3)**

A study of accounting concepts and financial reporting for state and local governments, not-for-profit entities, and partnerships; translation of foreign currency financial statements, and preparation of consolidated financial statements for consolidated enterprises. Data analytics is used to analyze data and present findings. Prerequisite: ACCT 302 with a minimum grade of C.

### **ACCT 405 INCOME TAXATION (3)**

Students develop skills to examine and evaluate data and problems in the context of income tax law. Primarily related to the taxation of individuals, students will use judgment to draw conclusions, and demonstrate and apply tax concepts. Students will use income tax law to compute and minimize tax liability, analyze the interrelationships of separate areas of taxation to identify causes and find evidence to support inferences. The course includes the use of tax research databases to find evidence to support conclusions on tax issues and prepare an individual income tax return using tax return preparation software. Prerequisite ACCT 202

### **ACCT 406 ADVANCED TAXATION (3)**

Students develop skills to examine and evaluate data and problems in the context of the income tax law related to C corporations, S corporations, partnerships, trusts and estates. Students will use judgment to draw conclusions, and demonstrate and apply tax concepts. Students will use income tax law to compute and minimize tax liability, analyze the interrelationships of separate areas of taxation to identify causes and find evidence to support inferences. The course includes the use of tax research databases to find evidence to support conclusions on tax issues and prepare an individual income tax return using tax return preparation software. Prerequisite ACCT 405.

### **ACCT 411 SEMINAR IN ACCOUNTING (3)**

A detailed study of current problems and contemporary developments in accounting literature, reports, and bulletins and a review of financial accounting theory as it relates to current accounting practices. Prerequisite: ACCT 302 or equivalent with a minimum grade of B-. Merrick School of Business student, or by permission of the instructor.

### **ACCT 412 INTRODUCTION TO FORENSIC ACCOUNTING (3)**

Provides an overview of the field of forensic accounting, focusing on the roles, responsibilities and requirements of a forensic accountant in both litigation and fraud engagements. Examines basic litigation and fraud examination theory, identifies financial fraud schemes, explores the legal framework for damages and fraud and damage assessments and methodologies, and reviews earning management and financial reporting fraud. Other topics include computer forensics and corporate governance and ethics. Actual litigation and fraud cases are used to highlight the evolving roles of forensic accounting. Prerequisite: ACCT 202 with a minimum grade of C.

### **ACCT 413 ETHICAL ISSUES IN ACCOUNTING (3)**

Considers business ethics issues within an accounting context from a multiple stakeholder perspective. Ethical theories, codes of ethics relevant to accountants, corporate governance and professional and corporate social responsibility are covered. The course emphasizes the application of concepts such as

professionalism, integrity, independence and objectivity to individual decision-making. Prerequisite: ACCT 202 with a minimum grade of C.

### **ACCT 414 FEDERAL AND STATE GOVERNMENT ACCOUNTING (3)**

The course covers the basics of federal, state and local (municipal) accounting with particular focus on fund accounting and issues specific to the accounting by the US Federal Government. The course coverage will roughly approximate the curriculum of Part II and III of Exam II of Certified Government Financial Manager examination. Prerequisite: ACCT 202 with a minimum grade of C.

### **ACCT 420 LAW, REGULATION AND PROFESSIONAL RESPONSIBILITIES (3)**

The course provides rigorous overview of theoretical and practical aspects of Law, Regulation, and Professional Responsibilities for Certified Public Accountants. The course covers legal issues pertaining to agency, contracts, debtor-creditor relationships, securities and employment law. The course also covers ethical and professional standards for certified public accountants. Prerequisite: ACCT 202 with a minimum grade of C.

### **ACCT 435 FINANCIAL STATEMENT ANALYSIS (3)**

Explores theoretical and conceptual foundations of generally accepted accounting principles. Integrates U.S. generally accepted accounting principles to develop students' understanding of financial statement analysis. Case materials and financial statements of U.S. and international companies are incorporated. Topics include standard setting, financial statement presentation issues, measurement issues (including fair-value accounting) and classification and recognition issues. Prerequisite: ACCT 201 or equivalent with a minimum grade of C.

### **ACCT 495 ACCOUNTING INTERNSHIP (3)**

Provides students with real-world accounting experience. The course requires approximately 175 hours of practical work with a qualified firm based on explicit statements of student responsibilities and faculty/firm monitoring mechanisms. Students will work closely with both the firm and a faculty member. It is recommended that students complete an internship in their junior year. prerequisites: Completion of nine semester hours of accounting with a minimum GPA of 3.0. Completion of MGMT 330 or permission of the instructor. Permission of the instructor is required.

### **ACCT 497 SPECIAL TOPIC: (3)**

The accounting faculty, from time to time, offer an opportunity to integrate new material into the undergraduate program reflecting changes in the field and in the educational needs of students. Prerequisites: ACCT 202 or equivalent with a grade of C or better or instructor permission.

### **ACCT 499 INDEPENDENT STUDY: ACCOUNTING (1 - 3)**

An in-depth study of a specific accounting topic performed on an independent basis by the student under the direction of a faculty member. Completion of a major paper as part of the independent study is required. For eligibility and procedures, refer to the Merrick School of Business Independent Study Policy. Prerequisite: Merrick School of Business student or permission of the instructor.

### **ACCT 505 ACCOUNTING ESSENTIALS (1.50)**

Introduces students to the basics of corporate financial reporting and financial statement analysis from the manager's perspective. Emphasizes the analysis of financial statements and provides an overview of U.S. Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRS) rules for most critical accounting items. prerequisite: graduate standing

### **ACCT 510 INTERMEDIATE ACCOUNTING I (3)**

The first course of the three-semester sequence of intermediate financial accounting. This course focuses on a comprehensive review of issues related to the reporting and analysis of financial accounting information. Topics include financial accounting standard setting, the conceptual framework underlying financial accounting, balance sheet and income statement presentations, revenue and expense recognition, and accounting for current assets and current liabilities. Data analytics is used to analyze data and present findings. Prerequisites: ACCT 504 or ACCT 505.

### **ACCT 511 INTERMEDIATE ACCOUNTING II (3)**

This course focuses on issues related to the reporting and analysis of financial accounting information. The objective in this course is to examine in detail (with an emphasis on both the "what" and the "why") the following financial topics: 1) Operational Assets 2) Time value of money 3) Bonds and long term notes 4) Leases 5) Employee benefits and pensions. Prerequisite: ACCT 510 or equivalent

### **ACCT 512 AUDITING (3)**

A study of generally accepted auditing standards with emphasis on professional standards, planning, internal control, audit evidence, audit sampling and standard reports for the various attestation functions. Prerequisite: ACCT 505 or equivalent

### **ACCT 513 INTERMEDIATE ACCOUNTING III (3)**

A comprehensive view of financial accounting concepts and principles, an intensive look at the nature and determination of the major financial statements, and an examination of current accounting practice, theory, and literature. Topics include shareholders' equity, investments, income taxes, earnings per share, accounting changes, error analysis, and statement of cash flows. Prerequisite: Completed or concurrent enrollment in ACCT 511.

### **ACCT 514 FUNDAMENTALS OF INCOME TAXATION (3)**

Students develop skills to examine and evaluate data and problems in the context of the tax law and using judgment draw conclusions, demonstrate and apply tax concepts and the tax law to compute and minimize tax liability, analyze the interrelationships of separate areas of taxation to identify causes and find evidence to support inferences, use tax research databases to find evidence to support conclusions on tax issues, and prepare an individual income tax return using tax return preparation software. Prerequisite ACCT 505.

### **ACCT 601 FORENSIC ACCOUNTING PRINCIPLES (3)**

Provides an overview of the field of forensic accounting, focusing on the roles, responsibilities and requirements of a forensic accountant in both litigation and fraud engagements. Examines basic litigation and fraud examination theory, identifies financial fraud schemes, explores the legal framework for damages and fraud and damage assessments and methodologies, and reviews earning management and financial reporting fraud. Other topics include computer forensics and corporate governance and ethics. Actual litigation and fraud cases are used to highlight the evolving roles of forensic accounting. Prerequisites: ACCT 504 or ACCT 505.

### **ACCT 605 PERFORMANCE MANAGEMENT AND ACCOUNTING CONTROLS (3)**

Focuses on how managers can use accounting information in the budgeting process to assist them in planning, controlling and making decisions. Introduces students to internal controls, corporate governance and enterprise risk management. Prerequisites: ACCT 504 or ACCT 505.

### **ACCT 624 ACCOUNTING ANALYTICS (3)**

This course focuses on applying cutting-edge analytics techniques to examine "big data" in areas of accounting, auditing, and related fields. It is designed to help motivated students who have little or no prior programming experience quickly grasp the concept of programming and apply it to real business situations. Upon successful completion, student will have a comprehensive understanding of data analytics principles and terminology, and able to proficiently execute projects that leverage data analytics tools and methodologies on accounting data to make informed business decisions. Prerequisite: ACCT 512 or equivalent or permission of program director.

### **ACCT 635 FINANCIAL STATEMENT ANALYSIS (3)**

Explores theoretical and conceptual foundations of generally accepted accounting principles. Integrates U.S. generally accepted accounting principles to develop students' understanding of financial statement analysis. Case materials and financial statements of U.S. and international companies are incorporated. Topics include standard setting, financial statement presentation issues, measurement issues (including fair-value accounting) and classification and recognition issues. Prerequisite: ACCT 505 or equivalent

### **ACCT 650 LAW, REGULATION AND PROFESSIONAL RESPONSIBILITIES (3)**

The course provides rigorous overview of theoretical and practical aspects of Law, Regulation, and Professional Responsibilities for Certified Public Accountants. The course covers legal issues pertaining to agency, contracts, debtor-creditor relationships, securities and employment law. The course also covers ethical and professional standards for certified public accountants. Prerequisite: ACCT 505 or equivalent.

### **ACCT 655 TAX POLICY (3)**

Explores the evolution and structure of the federal income tax system from a public policy perspective. Focus is placed on legal, economic, social and practical considerations. Alternatives, including current legislative proposals, are considered. Students prepare a research paper on a topic related to tax policy.

### **ACCT 680 TAXATION OF ENTITIES (3)**

Students develop skills to examine and evaluate data and problems in the context of the income tax law related to C corporations, S corporations, partnerships, trusts and estates, and using judgment draw conclusions, demonstrate and apply tax concepts and the income tax law to compute and minimize tax liability, analyze the interrelationships of separate areas of taxation to identify causes and find evidence to support inferences, use tax research databases to find evidence to support conclusions on tax issues, and prepare an income tax return using tax return preparation software. Prerequisite: ACCT 514

### **ACCT 701 ACCOUNTING ETHICS (3)**

ACCT 701: Accounting Ethics - Considers business ethics issues within an accounting context from a multiple stakeholder perspective. Ethical theories, codes of ethics relevant to accountants, corporate governance and professional and corporate social responsibility are covered. The course emphasizes the application of concepts such as professionalism, integrity, independence and objectivity to individual decision-making. Prerequisites: ACCT 505 or permission of department.

### **ACCT 702 FEDERAL AND STATE GOVERNMENT ACCOUNTING (3)**

This course covers the basic of federal, state and local (municipal) accounting with particular focus on fund accounting and issues specific to the accounting by the US Federal Government. The course coverage will roughly approximate the curriculum of Parts II and III of Exam II of Certified Government Financial Manager examination. Prerequisites: ACCT 505 or permission of department.

### **ACCT 720 DESIGN OF MANAGERIAL COST AND CONTROL SYSTEMS (3)**

Using data analytics techniques, applies theoretical knowledge to practical applications. Examines both the conventional and more recent advanced cost systems, such as activity-based costing, in many different environments. Through the analysis of the problems associated with identifying cost drivers, the determination of the allocation of costs, and the transfer of costs, students will gain an appreciation of the importance of managerial decision-making process using advanced data analytics techniques.

Prerequisite: Admission into MS in Acctg/BAS program or permission of the program director.

### **ACCT 740 ADVANCED TOPICS IN ASSURANCE SERVICES (3)**

This course delves into auditing and various assurance services, placing a strong focus on the application of data analytics techniques and tools within this domain. It explores the role of auditing analytics in risk assessment, providing an in-depth analysis of financial statement fraud and the utilization of data analytics for its detection. Additionally, the course offers comprehensive insights into the auditing of complex accounting estimates, emphasizing the use of data analytics to evaluate their plausibility. Beyond traditional auditing, the course extends its examination to include the integration of data analytics in other assurance services, including internal and governmental audits, thereby offering a broad perspective on the multifaceted applications of these techniques in the field. Prerequisites: ACCT 512 or equivalent.

### **ACCT 752 ADVANCED TOPICS IN ACCOUNTING INFORMATION SYSTEMS (3)**

An advanced study of accounting information system development, documentation and database implementation and the internal controls over the accounting information, including cybersecurity controls. Includes an exploration of advanced accounting information system topics, such as ERP systems, E-business applications, AI implementation, and the use of blockchains. Prerequisite ACCT 505.

**ACCT 755 ADVANCED FINANCIAL REPORTING ISSUES (3)**

A study of business combinations and the preparation of consolidated financial statements for consolidated enterprises, fund-type accounting for governmental units and not-for-profit entities, accounting for partnerships and accounting for multinational enterprises. Graduate equivalent of ACCT 403. prerequisite: ACCT 511 or equivalent.

**ACCT 770 SEMINAR IN CURRENT TOPICS IN ACCOUNTING (3)**

A study of current developments and contemporary problems in accounting. Topics vary from year to year. A significant writing and research experience is provided. prerequisite: ACCT 511 or equivalent

**ACCT 792 SPECIAL TOPICS IN ACCOUNTING (1.50)**

Specialized topics in accounting, allowing flexibility for both the changing developments in accounting and the educational needs of students. Exact topics and prerequisite structure appear in the schedule of classes. Prerequisites: ACCT 605 or ACCT 640.

**ACCT 795 GRADUATE ACCOUNTING INTERNSHIP (3)**

Students will attain professional accounting experience and work on assigned projects within a workplace accounting environment. Requirements include a work supervisor evaluation, a journal detailing the work experience, and a self-assessment of the student's internship experience. Prerequisite: Admission to the MS in Accounting and Business Advisory Services Program and permission of the graduate director of the accounting program.

**ACCT 797 SPECIAL TOPICS IN ACCOUNTING (3)**

Specialized topics in accounting, allowing flexibility for both the changing developments in accounting and the educational needs of students. Exact topics and prerequisite structure appear in the schedule of classes. prerequisite: ACCT 505 or permission of instructor.

**ACCT 799 INDIVIDUAL RESEARCH (3)**

prerequisites: approval of accounting instructor, department chair and academic adviser

**AITC: Applied Information Technology****AITC 151 COMPUTER PROGRAMMING I (3)**

A fundamental programming course focused on developing computational skills in problem-solving, algorithm development and program design, and principles of good programming. Topics include program flowcharting, pseudo-coding, input / output techniques, control structures, data types, modularization, procedures and file handling. A high-level programming language will be introduced and used throughout the course to supplement the theoretical foundations. prerequisite: none [TF]

**AITC 210 COMPUTER HARDWARE / SOFTWARE SUPPORT (3)**

Introduces students to the architecture and hardware components of modern computing systems such as PCs, servers and portable/mobile devices. Topics include hardware components and peripherals, installation, configuration and upgrading, diagnosing and troubleshooting, safety and preventive maintenance, portable systems, installation and optimization of system software, and basic networking. Course materials also prepare students for the vendor-neutral CompTIA A+ industry certification exam. Lab fee required. Prerequisite: None

**AITC 212 INTRODUCTION TO LINUX (3)**

Provides the conceptual knowledge and hands-on skills necessary to work with the current distributions of the Linux operating system. Topics include open source software, Linux installation and system software, common commands, tools and utilities, file systems management, basic administration, process management, network and service configurations, application installation and writing of simple shell scripts. Course materials prepare students for the vendor-neutral CompTIA Linux + industry certification exam. Lab fee required. Prerequisite: None

**AITC 251 COMPUTER PROGRAMMING II (3)**

Introduces the syntax of an object-oriented language and teaches object-oriented programming concepts and design. To teach these concepts, the course presents an object-oriented programming language such as Java, C#, or C++, while developing problem-solving and algorithm design skills. Lab fee required. prerequisite: AITC 151 or equivalent

### **AITC 253 CLIENT-SIDE WEB PROGRAMMING (3)**

Introduces students to the basics of client-side web programming by looking at the Document Objects Model's structure and adding dynamic properties. Topics include HTML, CSS and JavaScript, with an introduction to frameworks such as JQuery and React. Lab fee required. Prerequisite: AITC 151

### **AITC 310 COMPUTER NETWORKS (3)**

An introduction to computer networks, including network operating system concepts. Topics include network components, layered network architectures, topologies, network protocols, Ethernet, wireless transmission, local area networks, wide area networks, switching and routing, network configuration and troubleshooting. Course also prepares students for CompTIA's Network+ certification exam. Lab Fee required. Prerequisite : AITC 210 or equivalent

### **AITC 312 SYSTEM ADMINISTRATION (3)**

Prepares students to install, configure, administer and troubleshoot a server operating system. Topics include setting up user and group accounts; securing network resources; auditing resources and events; monitoring network resources; backing up and restoring data; managing system policies, file systems and fault tolerance; interoperating between network operating systems; implementing network clients and directory replication; managing/implementing disaster recovery; and troubleshooting. Lab fee required. Prerequisite: COSC 310

### **AITC 317 VIRTUALIZATION AND CLOUD COMPUTING (3)**

This course exposes students to current topics and technologies in virtualization and cloud computing. Students become familiar with the various aspects of cloud computing systems and analyze new approaches. Topics include the concepts and principles of virtualization; the mechanisms and techniques of building virtualized systems; cloud architectures and service models, the economics and benefits of cloud computing, public cloud infrastructures such as Amazon Web Services, Google Cloud Platform and Microsoft Azure; free cloud services and open source software; and security in cloud computing. Prerequisite: AITC 310

### **AITC 332 COMPUTER SECURITY (3)**

Introduces students to core principles and practices in computer and network security. Covers the fundamentals of computer/network security including general security concepts; threats and vulnerabilities; application, data and host security; access control and identity management; basics of cryptography; and compliance and operational/organizational security. Current topics in computer security such as cloud computing security and application programming development security also are discussed. Course materials prepare students for the vendor-neutral CompTIA Security+ industry certification exam. Lab fee required. Prerequisite: AITC 210 or equivalent. [GD]

### **AITC 350 FUNDAMENTALS OF COMPUTER PROGRAMMING (3)**

Provides an introduction to internet technologies that generate dynamic web pages, such as HTML, CSS, and JavaScript. Teaches fundamental concepts and design strategies of object-oriented programming using a language such as Java, C++, or C#. Serves as a foundational course for the Upper-Division Certificate in Computer Programming. Lab fee required. Prerequisite: admission to the Upper-Division Certificate in Computer Programming or permission of the Applied Information Technology program director

### **AITC 351 OBJECT ORIENTED PROGRAMMING (3)**

Introduces abstract data types, as well as generic classes and methods, complexity and algorithms. It also focuses on the design and implementation of object-oriented data structures. The course is based on an object-oriented programming language such as Java, C#, or C++. Proficiency in an object-oriented programming language is required. Lab fee required. prerequisite: AITC 251 or equivalent . [TF]

### **AITC 352 ADVANCED SCRIPTING AND TASK AUTOMATION (3)**

Focuses on the automation of tasks typically associated with system administration and security by using a scripting language. Applies concepts of computer programming to repetitive tasks, such as log analysis, times execution of actions, local and remote file operations. The course utilizes a scripting language that is widely used and applicable, such as Python or bash. Lab fee required. Prerequisite: AITC 251 [TF]

### **AITC 356 DATABASE SYSTEMS (3)**

Introductory course to database design and implementation. Topics include modeling using Entity-Relationship (E-R) diagrams, query formulation with Structured Query Language (SQL), database planning and design, normalization, creating and maintaining a database administration. Basic concepts of the relational data model and SQL are discussed in detail. Students plan, design and test a relational database and associated application components. They also obtain hands-on experience using a current version of Microsoft SQL Server Database Management System or another system. Lab fee required..

Prerequisite: AITC 251.

### **AITC 401 THE TCP/IP PROTOCOL SUITE (3)**

Introduces students to the TCP/IP suite of communication protocols. Topics include fundamentals, basic and advanced IP addressing, TCP/IP routing, TCP/IP name resolution, TCP/IP tools, dynamic P/IP configuration tools, WINS, NetBIOS, Internet/intranet services, printing and RAS, network management, and monitoring and troubleshooting. Laboratory fee required. prerequisite: AITC 310

### **AITC 412 UNIX / LINUX ADMINISTRATION (3)**

Students develop skills required to administer the Unix /Linux operating systems. Topics include installing and configuring a popular distribution, common tools and utilities, file system administration, user and group management, network / Internet service configuration, user and system security, shell scripting, kernel configurations, interoperability with Windows, back-up and storage, and troubleshooting. Lab fee required. prerequisites: AITC 151 and AITC 212 or their equivalents.

### **AITC 416 WIRELESS NETWORKING: APPLICATIONS AND SECURITY (3)**

This course provides an introduction to the fundamental principles, protocols, architectures, and current applications of wireless technologies. Examines the methods and techniques to secure these wireless technologies against threats and attacks. this course also explores emerging wireless technologies and Internet of Things (IoT) systems and their related security issues. Prerequisite: AITC 310

### **AITC 431 APPLIED CRYPTOGRAPHY (3)**

This course introduces the principles and practices of cryptography. The course consists of three parts: mathematical background, cryptographic concepts and algorithms, and technologies to secure data and networks. Emphasizes the application and uses of these algorithms. The course also exposes students to the basic steganography techniques and their applications. Topics include symmetric and public key encryption, key establishment and management, hash functions, digital signatures, public key infrastructures, and efficient implementation. Prerequisites: AITC 310, AITC 332, and MATH 321

### **AITC 432 INFORMATON ASSURANCE (3)**

Provides an introduction to the various technical and administrative aspects of information security and assurance. Discusses the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system with appropriate intrusion detection and reporting features. Ethical, legal and professional issues in information security are also discussed. Students develop familiarity with research and information resources to forecast emerging problems and strategies in this area. Laboratory fee required. prerequisite: AITC 310 and AITC 332

### **AITC 433 NETWORK SECURITY (3)**

Deals with the conceptual and technological aspects of network security. The course begins with a review of various forms of network attacks, including scanning, exploits and denial-of-service attacks. It discusses the role of major networking devices, including routers, firewall technology and servers, in establishing a secure network. It provides a comprehensive overview of building and maintaining firewalls



in a business environment. It discusses how to make an intelligent choice of firewall technology and firewall planning/design and presents basic firewall troubleshooting. It also covers security policy development, authentication, encryption, VPNs and IDSs. Laboratory fee required. prerequisite: AITC 310 and AITC 332

### **AITC 434 WEB AND DATABASE SECURITY (3)**

Introduces the security challenges and threats in database/Web-based systems. Students learn how to describe and apply security principles and technologies and how to implement them across various database/Web systems. In addition, advanced topics related to database/ Web systems such as e-commerce security, security problems in data warehousing and data mining are introduced. Lab fee required. Pre-requisite: COSC 155, AITC 332, and AITC 356.

### **AITC 435 DIGITAL FORENSICS FOR INFORMATION TECHNOLOGY (3)**

Introduces students to computer forensics and investigation and examines the digital footprints left behind by the use or misuse of computer systems and networks. Exposes students to current techniques, tools and best practice in securing, collecting, processing, examining and presenting digital evidence. Lab fee required. prerequisite: AITC 310 and AITC 332.

### **AITC 451 OBJECT-ORIENTED ANALYSIS AND DESIGN (3)**

Presents concepts and techniques in the development of robust design models and of applications of the Unified Modeling Language to fundamental object-oriented analysis and design concepts, including architecture, objects, classes, components, relationships, and supporting diagrams. Lab fee required. Prerequisite: AITC 351

### **AITC 453 SERVER-SIDE WEB PROGRAMMING (3)**

Focuses on the development of applications that reside on the server, powering the logic layer of modern software solutions based on three-tier and multi-tier architectures. Students learn server-side programming languages and frameworks, while balancing performance, security, and maintainability. Technologies include PHP, JSON, Node.JS, and various database query languages. Requires students to implement web applications in phases. Lab fee required. Prerequisite: AITC 251 and AITC 253.

### **AITC 456 ADVANCED DATABASE SYSTEMS (3)**

Covers advanced topics in database systems, intended to help students understand storage and indexes, query processing and optimization, transaction management, concurrency control, database administration and security, data warehousing concepts, OLAP and data mining, and distributed database and replication. Lab fee required. prerequisite: AITC 356

### **AITC 457 MOBILE APPLICATIONS PROGRAMMING (3)**

Introduces students to mobile application programming and provides an understanding of the underlying wireless architecture and infrastructure in native environments. Discusses various aspects of mobile applications and design patterns, and students gain hands-on development experience with at least one mobile platform. Lab fee required. prerequisite: AITC 351 or equivalent.

### **AITC 458 SOFTWARE SECURITY (3)**

Reinforces concepts of secure programming introduced in earlier courses. Students focus on injecting security-based techniques and algorithms into new or already existing applications through concepts of application design and code refactoring. Topics include SQL injections, Web application vulnerabilities, data type overflows and race conditions. Lab fee required. Prerequisites: AITC 351 and AITC 356

### **AITC 459 OPEN SOURCE SOFTWARE DEVELOPMENT (3)**

Allows students to learn about and practice the development of open source application, including the contribution to well-known systems as well as starting brand new projects. Introduces students to tools and practices typically utilized in the development and dissemination of open source software. Topics include licensing, versioning systems, testing, and source code documentation. Lab fee required. Prerequisite: AITC 351 and AITC 356.

### **AITC 461 IT PROJECT MANAGEMENT (3)**

Introduces the concepts and practices associated with IT project management and helps students understand how successful IT projects are effectively managed so that projects are completed on time, within budget and meeting customer's needs. Teaches students the key processes, from project initiation to project closure. Students gain working experience with the latest versions of the most popular project management software and tools available to project managers. Lab fee required. prerequisite: WRIT 300  
**AITC 480 INTERNSHIP IN APPLIED INFORMATION TECHNOLOGY (3 - 4)**

Provides students with hands-on work experience in Applied Information Technology. Students may arrange placement with an external organization, subject to written approval by the instructor and an official of the organization. Prerequisites: five courses (15 credits) within the AITC major at any level and approval of the instructor.

**AITC 481 UNDERGRADUATE RESEARCH EXPERIENCE (1 - 4)**

Preparation of a work of original research or a substantial IT project displaying practical knowledge of relevant research. Each student develops a substantial thesis project that incorporates innovative approaches to technology based problems. Eligible for continuing studies (CS) grade. Lab fee required. Prerequisites: five courses (15 credits) within the AIT major at any level and approval of the instructor.

**AITC 490 CAPSTONE IN INFORMATION TECHNOLOGY (3)**

Provides students with hands-on work experience in applied information technology. Students may arrange placement with an external organization, subject to written approval by the instructor and an official of the organization. Alternatively, students may participate in an in-house project managed by the instructor. In the latter case, students attend regular class meetings as part of their project work. Laboratory fee required. prerequisites: AITC 461 and at least 4 courses in the student's chosen concentration or AITC 461 and at least 4 elective courses in the general track. [OC] [CAP]

**AITC 497 SPECIAL TOPICS IN INFORMATION TECHNOLOGY (3)**

Intensive exploration of topics in information technology of mutual interest to faculty and students. Content varies according to the current interests of faculty and students. The topic for study appears under that name in the class schedule. Course may be repeated for credit when topic changes. Laboratory fee required.

**AITC 499 INDEPENDENT STUDY (1 - 3)**

The pursuit of independent study under the supervision of a full-time faculty member. The number of credits to be earned is determined by the supervising faculty member before the study begins. Students may earn up to 3 credits for this independent study. Laboratory fee required. Prerequisite: varies; see class schedule or instructor.

## **ANTH: Anthropology**

**ANTH 110 CULTURAL ANTHROPOLOGY (3)**

Provides an introduction to the field of cultural anthropology, the study of human cultural variation throughout the world, both past and present. This course focuses on the general concepts of anthropology as a discipline, the evolution and structure of human social groups, and in-depth culture description and cross-cultural comparison involving both past and extant societies. [SOSC] [QQT] [GIK] [SBS] [GD]

**ANTH 115 HUMAN ORIGINS (3)**

An introduction to physical anthropology and archaeology, two subdisciplines within the field of anthropology. Physical anthropology has two major objectives: the reconstruction of the evolutionary history of Homo sapiens and the study of human genetic, anatomical and physiological diversity. Archaeology is devoted to the study of the life ways of past peoples through the examination of cultural remains. [SOSC] [QQT] [GIK] [SBS]

**ANTH 201 INTRODUCTION TO ARCHAEOLOGY (3)**

Introduction to the basic theories, methods and kinds of data that archaeologists use to study the lives of people who lived in the past, including their natural environments, material cultures, foodways and socioeconomic systems. Students are introduced to the use of anthropological archaeology in the investigation of ancient peoples of the Old and New Worlds, as well as people of the recent past and how their lives were affected by European imperialism, institutionalized racism and the global capitalist system. [SOSC]

#### **ANTH 202 INTRODUCTION TO ARCHAEOLOGY LABORATORY (1)**

Emphasis is placed on hands-on experience in archaeology through the study of artifacts in the laboratory, the application of archaeological methods in the field and the analysis of archaeological data using computer statistics packages and geographic information systems software. Students take the important concepts and theories of archaeology and learn how to apply them in academic research. This course has ANTH 201 as a co-requisite. \$65 LAB FEE REQUIRED

#### **ANTH 222 HUMAN ENVIRONMENTAL ADAPTATIONS (3)**

Examines the various ways humans adapt culturally to their physical and biological environments. Societies of a variety of time periods and levels of complexity are studied. Many different types of habitat and settlement are considered, from tropical rain forests to arctic zones, small villages to cities. The impact human societies have on their environments is an important theme in class lectures and discussions.

#### **ANTH 252 ARCHAEOLOGICAL RESEARCH METHODS (4)**

Provides in-depth exposure to the methods used by anthropological archaeologists as they learn about past cultures and disseminate the knowledge they obtain, including field survey, excavation, artifact analysis, quantitative techniques, reporting, and literature review. Subject matter is conveyed to students in the form of lectures, discussion of case studies, and hands-on laboratory exercises. Lab fees required. Prerequisites :None

#### **ANTH 295 HISTORICAL ARCHAEOLOGY (3)**

Deals broadly with anthropological archaeology as it applies to cultures with written records. Students receive an introduction to the methods and analytical techniques that historical archaeologists use to learn about past literate societies. Issues related to the European colonization of the New World, gender, ethnicity, slavery, and the development of the capitalist system figure prominently in course material. Prerequisites: None. [SOSC] [QQT] [GIK] [SBS]

#### **ANTH 320 FORENSIC ANTHROPOLOGY (4)**

Explores the methods and concepts of the fields of physical anthropology and human osteology as they relate to the criminal justice system. Formal lectures and the discussion of case studies provide a terminological, conceptual, and theoretical foundation. Through laboratory exercises, students gain a general understanding of the identification of human remains and causes of death, including the determination of sex, age, evidence of trauma, and time of death. Lab fee required. Prerequisite: None [IL]

#### **ANTH 365 HUMAN POPULATION DYNAMICS (3)**

Examines the effects of fertility, mortality, and migration on the size and structure of human populations. An anthropological focus is used to link: demography to cultural attributes, such as economy, religious practices, education, marriage, gender, and class. Environmental issues as they relate to the growth of human populations are important themes. [OC]

#### **ANTH 410 CULTURAL RESOURCE MANAGEMENT (3)**

Involves the broad study of cultural resources, which include both material aspects of culture, such as historical structures and artifacts, and nonmaterial cultural manifestations, such as music, dance, and folklore. Students are introduced to the issues surrounding the preservation of cultural heritage. The legal and business management aspects of CRM as it relates to archaeology form an important component of coursework. Prerequisite: None

#### **ANTH 440 ANTHROPOLOGICAL THEORY (3)**

This course deals broadly with the evolution of anthropological thought from the 19th century to today, including the areas of cultural evolution, gender, Marxism, political economy, ethnicity, agency, social justice, social structure, symbolism, and cultural materialism. Coursework combines formal lectures with group discussions of assigned readings. Prerequisites: None

**ANTH 488 SPECIAL TOPICS IN ANTHROPOLOGY (3)**

An intensive study of an issue or set of related issues in the discipline of anthropology. Content varies depending upon the interests of faculty and students. Course may be repeated for credit when the topic changes. Prerequisite: None

**ANTH 490 INTERNSHIP IN CULTURAL RESOURCE MANAGEMENT (3 - 4)**

Provides students majoring in Applied Anthropology the opportunity to gain hands-on experience working with nonprofit institutions, government agencies, or private firms associated with cultural resource management. Course is eligible for continuing studies grade. Pre-requisite: None

**ANTH 499 SPECIAL PROJECTS IN ANTHROPOLOGY (3)**

This capstone experience for Applied Anthropology majors involves the implementation of a research project under the supervision of a faculty member. The work may include primary research, a review paper, or another type of scholarly research product. This course is eligible for a continuing studies grade. Prerequisite: Permission of Program Chair.

**APPL: Applied Psychology**

**APPL 601 THE BIOLOGICAL BASIS OF BEHAVIOR (3)**

Surveys the current knowledge of the structure and function of the nervous system, with an emphasis on how this information contributes to understanding behavior and mental processes. Introduces neuroscience and demonstrates how different types of information are integrated in this interdisciplinary field. Students gain insight into how biochemical, anatomical, and physiological approaches contribute to the understanding of behavior and clinical phenomena. Addresses multicultural and social justice advocacy considerations. Lab fee required. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 602 PROFESSIONAL IDENTITY, ETHICS, AND LEGAL ISSUES IN THE PRACTICE OF COUNSELING AND PSYCHOLOGY (3)**

Focuses on the development of professional identity, pathways to credentialing and licensure and legal and ethical issues in professional counseling and psychology. Students examine professional organizations, credentialing bodies and the ethical codes relevant to the practice of counseling and psychology. Emphasis on ethical standards of the American Counseling Association and resolution of ethical dilemmas through the application of an ethical decision-making model. Addresses multicultural and social justice advocacy considerations. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 603 LEARNING AND COGNITION (3)**

Emphasizes the study of the major theories and models of human learning from the perspectives of both behaviorism and cognitive science. Includes an experiential overview of how people acquire, store and use information. Theoretical and empirical information is applied to the understanding of human behavior in a wide variety of settings. Address multicultural and social justice advocacy consideration as they relate to issues in human learning. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 604 INTERVIEWING (3)**

The interview as an informational, research and clinical tool. Interview formats and their construction, as well as the skills required for their utilization, are reviewed. The relationship of the interview to other information-gathering procedures is considered. Lab fee required. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 605 ADVANCED THEORIES OF PERSONALITY AND COUNSELING (3)**

An advanced exploration of theories regarding personality and counseling. Includes discussion of treatment implications and research related to each theory or therapy. Addresses multicultural and social justice advocacy considerations. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 606 BASIC COUNSELING TECHNIQUES (3)**

An overview of the basic skills and techniques required for conducting counseling sessions, including multicultural and social justice considerations. Explores listening skills, relationship-building, intake and ongoing assessment, etc. Basically experiential in nature, with students engaging in self-reflective activities, practicing and evaluating counseling styles and abilities and participating in varied classroom activities such as mock counseling role plays and/or interviews. Lab fee required. Prerequisite: APPL 605 or permission of instructor; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 607 BEHAVIORAL MEDICINE (3)**

Examination of theory and practice in the field of behavioral medicine, emphasizing the role of mind-body interaction in physical health and illness as well as approaches to prevention, diagnosis and treatment of physical disease and psychophysiological dysfunction. Topics include doctor-patient communication, specific physical conditions, modification of health behavior and coping strategies. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 608 APPLIED ASSESSMENT PROCEDURES (3)**

An exploration of current procedures employed in the evaluation of behavior within the context of multicultural and social justice factors. Focuses on the observation and interpretation of behavioral information and its relationship to choice of assessment procedures. Reviews representative measures of intellectual ability, achievement, aptitude, personality and psychological motor functioning. Lab fee required. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 609 OCCUPATIONAL STRESS AND HEALTH PSYCHOLOGY (3)**

Survey of the organizational environment that affects cognitive processes and subsequent physiological, psychological and behavioral responses affecting individual and organizational performance. Topics include the role of the person, such as biology and personality; the role of the organization, such as workplace climate and work roles; and different types of individual and organizational stress management interventions that contribute to individuals' health and well-being. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 610 PSYCHOPATHOLOGY AND DIAGNOSIS (3)**

Examines issues in the epidemiology, diagnosis, and treatment of psychiatric disorders. Major attention is given to changing applied and theoretical perspectives in the light of contemporary research methodologies and findings. Addresses ethical, multicultural and social justice advocacy considerations in relation to psychiatric classification and diagnosis. Lab fee required. Prerequisite: only open to the

following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 612 HUMAN RELATIONS (3)**

Examination of human interactions in work settings that impact individual mental health and organizational health and productivity. Emphasis on preventing and intervening to reduce stress, frustration, conflict and violence, sexual harassment and other social problems in the workplace by applying research in emotional intelligence, personality, social perception, communication, persuasion and teamwork. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 613 HUMAN DEVELOPMENT (3)**

Survey of the biological, psychological and social changes that accompany the developmental process. Includes a study of the physical, intellectual, emotional and social development of the individual from conception to death. Addresses multicultural and social justice advocacy considerations. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 614 COMMUNITY PSYCHOLOGY (3)**

Provides an introduction to the central concepts, strategies, findings and values of community psychology to help students develop broader perspectives on individual and community functioning and well-being. Explores the interdependence of individuals and their communities and environments, with foci on social issues and policies, underserved and marginalized groups, social justice and social change, and prevention of social and mental health problems. Emphasizes research and interventions at the level of small groups, organizations, institutions and communities to reduce stress, enhance quality of life, prevent emotional and behavioral disorders, and empower individuals and their communities. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 615 COGNITIVE AND PSYCHOLOGICAL FOUNDATIONS (3)**

Covers material for three competency areas within the basic fields of psychology that are considered essential at the master's level. Topics include biological bases of behavior, learning theories and cognition. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 616 ADVANCED TREATMENT TECHNIQUES (3)**

Examines the application of theoretically and empirically based change strategies in mental health counseling. Surveys several theoretical approaches to a variety of clinical problems, with an emphasis on empirically supported principles of change. Multicultural and social justice advocacy considerations in the application of behavioral change strategies are addressed. Includes applications to both children and adults. Prerequisites: APPL 605 and APPL 606. Only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 617 PERSONALITY ASSESSMENT (3)**

Examines the rationale, psychometric properties and utility of some of the major personality assessments in use today within the context of multicultural and social justice considerations. Focuses primarily on objective measures of personality, but projective measures are introduced. Emphasis is given to the professional, ethical and cultural competency responsibilities associated with the assessment process and to administration and interpretation procedures. Lab fee required. Prerequisites: APPL 610 and APPL 608 or satisfactory completion of undergraduate Tests and Measurements course; only open to the

following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 618 INTELLECTUAL ASSESMENT (3)**

Examines the theoretical background, rationale and validity of the major assessments of intellectual abilities currently in use. Emphasizes the professional, ethical, multicultural and social justice responsibilities associated with the assessment process, and to administration and interpretation procedures. Lab fee required. Prerequisites: APPL 610 and APPL 608 or satisfactory completion of undergraduate Tests and Measurements course; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 619 PSYCHOLOGICAL ASSESMENT (3)**

Examines the rationale and validity of the more predominant intelligence tests, projective measures, interest inventories and personality measures currently in use. Focus also includes professional and ethical responsibilities associated with the assessment process and provides familiarity with administration and interpretation procedures. Lab fee required. Prerequisites: APPL 610 and either APPL 608 or undergraduate Tests and Measurements course. Only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 620 INTRODUCTION TO CLINICAL NEUROPSYCHOLOGY (3)**

Survey of basic clinical neuropsychology, focusing on the psychometric foundations of different diagnoses based on the clinical presentation of human brain dysfunction. Discusses cognitive, behavioral, emotional and social symptoms of the major neuropsychological disorders. Issues of assessment in impaired populations are addressed, including the provision of effective psychological services to the neuropsychologically impaired individual. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 621 TREATMENT OF SUBSTANCE USE DISORDERS (3)**

Provides a review of current literature regarding the etiology, psychology, risk factors and social phenomena associated with substance (including alcohol) use and related disorders. Emphasizes evidence-based contemporary and traditional treatment methods employed by outpatient clinics and inpatient units. Addresses issues related to ethical, multicultural and social justice advocacy considerations in the treatment of substance use disorders. Lab fee required. Prerequisite: APPL 606; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 622 GROUP COUNSELING (3)**

An introduction to the theory and practice of group psychotherapy, including consideration of history and theory as well as practical considerations and clinical techniques. Explores ethical considerations for therapists who lead groups. Addresses multicultural and social justice advocacy considerations. Incorporates an experiential component into the class periods. Lab fee required. Prerequisite: APPL 606; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 623 CAREER COUNSELING (3)**

Introduces the primary theories that explain how individuals make career choices and the specific strategies the counselor can use to help the client make informed career choices. Students gain exposure to specific instruments designed to assist in career decisions. Addresses multicultural and social justice considerations in career counseling. Lab fee required. Prerequisite: APPL 606; only open to the following

majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 624 PSYCHOLOGY AND THE LAW (3)**

Application of the fundamental principles of psychology to facets of the legal system, including an overview of the field as well as specialized topics such as competency, commitment, psychology of juries and the psychology of evidence. Emphasis on current newsworthy topics as well as on rapidly changing controversial issues and ethical considerations. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 625 MULTICULTURAL COUNSELING (3)**

Explores the impact of social phenomena, such as privilege and oppression, on cultural group membership and human development. Topics include race, ethnicity, gender, gender identity, sexual orientation, ability status, age, national origin, religion, socioeconomic status and language. Examines multicultural counseling relationships and research, as well as social justice advocacy considerations for the practicing therapist. Self-reflection and experiential exercises raise awareness of self as a cultural being. Course knowledge is applied to out-of-class experiences as well as to psychological assessment, case conceptualization and treatment planning. Lab fee required. Prerequisites: APPL 605 and APPL 606; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 626 FAMILY THERAPY (3)**

Presents an overview of various family therapy theories and techniques, including systems theory and family life-cycle development. Explores the integration of these techniques into the therapy process with couples and families. Special attention is given to specific issues such as the impact of race, culture and gender on a family therapeutic intervention. Prerequisite: APPL 606; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 627 CHILD AND ADOLESCENT THERAPY (3)**

Provides an understanding of the psychological disorders of childhood and adolescence. Covers the assessment, diagnosis and treatment of a broad range of disorders that typically arise in childhood or adolescence and examines the factors that contribute to their development. Addresses multicultural and social justice advocacy considerations in working with children and adolescents. Prerequisite: APPL 606; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 628 COLLEGE COUNSELING (3)**

Provides an understanding of the issues and psychological problems of college students and how those issues and problems are treated in the college setting. Covers the assessment and treatment of disorders that characterize young adulthood and the core knowledge and skills of college counselors, and provides an orientation to college and university counseling centers. Addresses multicultural and social justice advocacy considerations for working with college students in a university setting. Prerequisites: APPL 602, APPL 606 and APPL 610; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 629 SPECIAL TOPIC: TOPICS IN COUNSELING (3)**

Theoretical assumptions, techniques and effectiveness of interventions associated with behavioral and psychological problems of the aged, alcoholics, sexual deviants, criminal offenders and/or problems encountered in marriage and family situations. Specific topic may vary from semester to semester. May be repeated for credit as course topic changes. Lab fee may be required. prerequisites: to be determined



by instructor Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 631 INTERMEDIATE STATISTICS FOR BEHAVIORAL SCIENCE (3)**

The logic of hypothesis testing and assumptions underlying its use are the framework for studying analysis of variance and covariance and multiple regression. These tools are learned in the context of application to psychological research. Students learn to complete statistical analyses using a microcomputer statistical package and to interpret the results. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 632 RESEARCH METHODS FOR APPLIED PSYCHOLOGY (3)**

Builds on the fundamentals of research design and on knowledge of basic statistical techniques to provide a broad overview of the major research methods of applied psychological research. Students learn to frame inquiries and problems as research questions. The relative merits and drawbacks of the major research methods are explored. Students develop a research proposal to investigate an applied research question. Prerequisite: APPL 631. This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only

**APPL 633 RESEARCH AND EVALUATION (3)**

Surveys methods used to investigate questions and acquire knowledge in counseling and psychology, and provides students with the skills necessary to critically evaluate counseling and clinical research literature. Topics include principles and techniques of qualitative and quantitative models; needs assessment; program evaluation; ethical, multicultural and social justice considerations in the research process; and the role of the mental health counselor as a knowledgeable research consumer. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 635 PROGRAM EVALUATION (3)**

Study of the theories, constructs and analytical skills needed to develop, implement and evaluate organizational programs and policies. Emphasis is on the research methods used to measure and track programs and their outcomes over time. prerequisites: APPL 631 and 632 or permission of program director. Applied Psychology or Certificate in Professional Counseling Studies.

**APPL 639 SPECIAL TOPICS: APPLIED STATISTICS (3)**

Study of one major statistical topic, such as multivariate statistics, structural equation modeling, meta-analysis, analysis of ordinal and categorical variables or nonparametric statistical techniques. Offered when student demand is sufficient and matches instructor interests. Topic may vary from semester to semester. May be repeated for credit as course topic changes. Prerequisites: APPL 631, APPL 632 and permission of instructor. Applied Psychology or Certificate in Professional Counseling Studies.

**APPL 641 ORGANIZATIONAL PSYCHOLOGY (3)**

Studies how principal theories and empirical findings from research in organizational psychology are used to improve employee performance and satisfaction. Emphasizes the interactive effects of situational and individual difference variables as they influence organizational behavior. Overview includes motivation, leadership, employee morale, group dynamics and interpersonal communication. Students apply theoretical and empirical findings to solutions of work-related problems in case studies. Lab fee may be required. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 642 MOTIVATION, SATISFACTION AND LEADERSHIP (3)**

Critical and in-depth examination of the research evidence for theories of leadership and job satisfaction. Using motivation as a central concept, students gain an understanding of how group dynamics and personal, environmental and cultural factors influence organizational behaviors. Students work in teams to solve performance-related problems presented in case studies. Lab fee may be required. Prerequisite: APPL 641 or approval of program director. This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 643 ADVANCED SOCIAL PSYCHOLOGY (3)**

Survey of the theoretical positions, research methodology and current findings seeking to explain how interpersonal interactions affect individual and group behavior. Consideration is given to such constructs as attitudes, attributions and cooperation. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 644 PERSONNEL PSYCHOLOGY (3)**

Overview of the area of personnel psychology. Topics include job analysis, personnel selection and placement, training and development and performance appraisal. Special attention to measurement procedures involved in personnel selection and performance appraisal. Equal employment opportunity laws and their effect on personnel practices are discussed. Lab fee may be required. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 645 PERSONNEL ASSESSMENT (3)**

Application of the technical material learned in Personnel Psychology related to assessment techniques used to select, promote and evaluate personnel. Hands-on experience with these methods, including development of the most common ones. Assessment techniques discussed may include ability tests, personality and honesty tests, drug testing, work samples, interviews, training and evaluation forms and performance appraisals. Students go through the process of developing surveys for attitude assessment. Lab fee required. Prerequisite: APPL 644 or permission of instructor. This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 646 EMPLOYMENT LAW IN HUMAN RESOURCE MANAGEMENT (3)**

Review and analysis of federal laws and their application to human resource management (including employee selection, promotion, performance appraisals, discipline, termination, compensation, benefits and safety). Covers EEO, Affirmative Action, Civil Rights Acts, Americans with Disabilities Act and other antidiscriminatory legislation, as well as FLSA and OSHA. Examines legal issues such as privacy, sexual harassment, drug testing and employees' rights versus employers' rights. Addresses strategies for creating policy and legal concerns in a context of organizational behavior and motivation theories. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 647 TRAINING AND ORGANIZATIONAL DEVELOPMENT (3)**

Theory, findings and methods relating to how an organization ensures that its employees are equipped to accomplish its mission. Students learn about techniques to assess and implement organizational change. Through hands-on activities, they learn to develop and implement programs such as skills training, team building and management development. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 648 EMPLOYEE SELECTION (3)**

Examines testing and decision theory, legality and societal issues involved in matching individual knowledge, skills, abilities and other characteristics with organizational needs. Discussions include employment interviews, cognitive abilities testing, integrity and substance abuse testing, personality

measures, biographical data and other procedures. Lab fee may be required. prerequisite: APPL 644. This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 649 SPECIAL TOPICS: INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY (3)**

Studies a topic of industrial/organizational psychology of mutual interest to students and faculty that is not currently part of course offerings. Topic may vary. May be repeated for credit as course topic changes. Lab fee may be required. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 650 WORK GROUPS IN ORGANIZATIONS (3)**

Study of group dynamics in the context of organizations, focusing on the predominant psychological theories and research findings that explain the formation and development of work groups. Emphasis on learning how effective strategies and techniques can be used to enhance teamwork in organizations. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 651 JOB ANALYSIS (3)**

Survey of job analysis methodology and issues using experiential projects. Includes tools used in conducting a job analysis: data gathering techniques, legal and technical standards and the Occupational Information Network. Emphasis is on variation in approach dependent on subsequent application of the results. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 652 ORGANIZATIONAL THEORY AND DEVELOPMENT (1 - 3)**

Survey of organizational theory and techniques used in organizational development. Topics include organizational structure and communication, sources of power, organizational culture, and organizational diagnosis. Students engage in discovery of an organization's pain points, recommendations for organizational changes, and apply sound judgment based on empirical works associated with best practice interventions.

**APPL 653 CONSULTING SKILLS (3)**

Focuses on the essential skills and abilities needed for successful consulting to organizations. Topics include business development, project management, cost estimation and report writing. Emphasizes learning techniques used for successful group presentations and developing skills for effective oral and written communication. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 654 SURVEY DEVELOPMENT AND IMPLEMENTATION (3)**

How to plan, design and implement surveys to assess organizational characteristics. Emphasizes how to collect and analyze survey data and present findings to the organization. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 655 PRACTICAL APPLICATIONS IN I/O PSYCHOLOGY (3)**

An opportunity to practice real-world application of the competencies acquired in the degree program. Students propose solutions to simulated or actual challenges faced by organizations and demonstrate their ability to integrate and apply broad knowledge of personnel and organizational psychology. Prerequisites: APPL 632, 642, 645 and 651. This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 657 PERSONALITY AT WORK (3)**

A study of the role that personality plays in an organizational setting. Examines the construct of personality as it relates to job performance and to interpersonal relations at work. Focuses primarily on

recent theory, research and findings on the effectiveness of personality in selection with an emphasis on response distortion issues. Students complete several self-report inventories to gain a personal view of how someone with his or her profile would be expected to behave in various work environments.

Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 658 CHANGE MANAGEMENT (3)**

Theory, findings and methods relating to how organizations manage and mismanage change. Students learn about techniques to assess and implement organizational change. Through hands-on activities, they learn to develop and implement change management programs, including skills training and team building. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 659 CROSS-CULTURAL ORGANIZATIONAL PSYCHOLOGY (3)**

Examines topics in organizational psychology from a cross-cultural lens, focusing on portability of Western-based theories and practices to other cultures. Topics include cultural values, methodological equivalences, intercultural training, group processes, organizational justice, work-family issues, leadership, negotiations, acculturation and expatriation/repatriation. Prerequisite: APPL 641 or permission from instructor. This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 660 APPLIED INTERNATIONAL WORK AND ORGANIZATIONAL PSYCHOLOGY (3 - 6)**

Expose students to the increasingly geographically dispersed and technologically connected world by examining topics in work and organizational psychology through an international field experience, collaborating with peers, instructors, and local experts from a different cultural environment. Students will practice intercultural interactions and enhance their cross-cultural competence, drawing on contextual factors influencing strategic decision-making in different national contexts. Topics may address personnel selection, performance management, organizational development, motivation, leadership, occupational health and stress, and more. Students will engage in site visits, case analyses, and intercultural team collaborations.

### **APPL 661 DEATH, DYING, LOSS AND GRIEF (3)**

Models of adjustment to loss and their application to counseling individuals and groups who have experienced significant loss through death, illness and injury, divorce and major life transitions. Emphasis on issues related to death and dying (including social, psychological and cultural factors that influence grieving). Also explores significant loss areas to which grief intervention perspectives and techniques can be applied. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 662 TREATMENT OF TRAUMA (3)**

Exposes students to the current approaches to treatment of trauma being used by clinicians. Emphasizes the development and application of skills in conducting empirically-supported therapy for trauma-related conditions. Addresses issues in the ethical assessment and treatment of trauma-related conditions, including multicultural and social justice advocacy considerations. Lab fee required. Prerequisites: APPL 605, APPL 606 and APPL 610; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 663 TREATMENT OF DEPRESSIVE DISORDERS (3)**

Provides students with knowledge and skills in current evidence-based approaches to treatment of depressive disorders, as well as disorders that frequently co-occur with depression (e.g., anxiety, substance use, personality disorders). Emphasizes cognitive and cognitive-behavioral treatments, though other theoretical approaches are noted. Addresses ethical, multicultural and social justice advocacy

considerations in the assessment and treatment of depression. Lab fee may be required. Prerequisites: APPL 605, APPL 606 and APPL 610; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 664 GEROPSYCHOLOGY: PSYCHOSOCIAL FACTORS (3)**

Survey of the empirical data and theoretical formulations relating to the psychosocial concomitants of aging. Consideration of the interactional effects of individual, familial, social and cultural variables as they influence successful adaptation to later life. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 665 CLINICAL SUPERVISION (3)**

Provides didactic preparation in clinical supervision knowledge and skills. Emphasizes ethics, multiculturalism, social justice advocacy, supervisory relationship dynamics, models of supervision, modes of evaluation, supervision research and tools to conduct effective clinical supervision with counselor trainees. Lab fee required. Prerequisite: two semesters of APPL 703 or APPL 708 and permission of the instructor; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 666 TREATMENT OF ANXIETY DISORDERS (3)**

Provides students with a theoretical and empirical understanding of the development, maintenance and current evidence-based treatment of anxiety and related disorders, including cultural and social justice considerations. Emphasizes behavioral and cognitive-behavioral treatments, although other theoretical approaches are discussed as well. Lab fee required. Prerequisites: APPL 605, APPL 606, and APPL 610; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 700 SPECIAL TOPICS: APPLIED PSYCHOLOGY (3)**

Readings and discussions of topics in applied psychology. Topic may vary. May be repeated for credit as course topic changes. Lab fee may be required. prerequisites: determined by instructor. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 701 SEMINAR IN APPLIED PSYCHOLOGY (3)**

Readings and discussions of research studies and theoretical papers in areas of special interest to seminar participants. prerequisite: completion of 15 hours of Applied Psychology core courses. Only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

**APPL 702 FIELD EXPERIENCE (1 - 3)**

Supervised prior-to-practicum experience at a setting that supports preparation for a career in counseling or industrial/organizational psychology. Not a clinical experience. To earn 1 credit, a student spends approximately 60 hours at the site and provides a journal of the experience for the supervising faculty member. The requirements are agreed to in writing prior to registration by the student, supervising faculty member and on-site supervisor. A maximum of 3 credits may be applied to the degree. Course is NOT eligible for a continuing studies grade and does NOT count as part of the 60 credits required to qualify for certification by the State Board of Professional Counselors. Pass/fail grading. prerequisite: prior approval (See above.) Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 703 PRACTICUM IN COUNSELING (3)**

Experience in the application of: behavioral change methods and skills, ethical and legal requirements, and multicultural competence and social justice advocacy in a clinical or counseling setting. The student 1) functions as a professional under the supervision and guidance of an on-site counselor, and 2) attends scheduled group supervision meetings on campus several times during the course of the semester. Students must complete arrangements for the experience with the practicum coordinator in the semester preceding enrollment. Lab fee required. A maximum of 6 credits may be applied toward the degree. Eligible for continuing studies grade. Prerequisites: permission of instructor prior to registration and APPL 602, 605, 606 and 610; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 704 PRACTICUM IN RESEARCH (3)**

Supervised participation in experimental studies designed by either the student or an individual approved by the instructor. A maximum of 6 credits may be applied toward the degree. Eligible for continuing studies grade. prerequisites: APPL 631 and APPL 632 or equivalent and approval of instructor. Only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 705 PRACTICUM IN ASSESSMENT (3)**

Supervised experience in the use of assessment procedures in situations relevant to student interest and vocational goals. Students spend the equivalent of one day per week at an approved training site. A maximum of 6 credits may be applied toward the degree. prerequisites: APPL 606 and APPL 619 or APPL 645 or other appropriate coursework in assessment and approval of instructor. Only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 706 PRACTICUM IN APPLIED PSYCHOLOGY (3)**

An opportunity to gain practical experience in the application of psychology at various work settings. The work and/or field research is designed and mutually agreed upon by the student, the practicum coordinator and the workplace supervisor. Includes regular on-campus meetings. Enrollment may be limited by availability of settings. Student must complete arrangements for the experience with the practicum coordinator in the semester preceding enrollment. A maximum of 6 credits may be applied to the degree. Eligible for continuing studies grade. prerequisites: permission of instructor (prior to registration) and coursework deemed pertinent to project by practicum coordinator. Prerequisite: only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 707 PRACTICUM IN INDUSTRIAL /ORGANIZATIONAL PSYCHOLOGY (1 - 4)**

Supervised participation in field research in applied job settings. Hands-on experience with I/O work assignments is performed and evaluated. The work and/or field research is designed by the student or senior personnel and should enhance a student's vita/resume. Government, industry, public/community service or other settings may be generated by the instructor or the student. Setting and research/job duties must be proposed and agreed upon in writing by the student, the instructor and an authorized representative from the organization. To the extent that settings/positions must be generated by the instructor, enrollment is limited according to availability. A maximum of 6 credits may be applied toward the degree. Eligible for continuing studies grade. prerequisite: permission of instructor. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 708 INTERNSHIP IN COUNSELING (1 - 3)**

Builds upon APPL 703 Practicum in Counseling, allowing students to practice and further integrate counseling skills, ethical and legal requirements, and multicultural competence and social justice advocacy in clinical or counseling settings. Students accrue at least 100 hours of supervised clinical experience for each credits taken. Students must complete arrangements for the experience with the

practicum coordinator in the semester preceding enrollment. Lab fee required. Prerequisites: APPL 703 and permission of program director; only open to the following majors: M.S. in Counseling Psychology, M.S. in Applied Psychology, or Certificate in Professional Counseling Studies; other majors may take this course with departmental permission only.

### **APPL 779 DIRECTED STUDY IN APPLIED PSYCHOLOGY (1 - 3)**

The pursuit of independent work under the supervision of a faculty member. This work should relate to a topic not covered by the regular department offerings and may provide a basis for entrance into courses with special prerequisites. The student writes a proposal that is approved by the supervising faculty member and the graduate program director prior to registration. Prerequisites: completion of required core and approval prior to registration. Pass/fail grading. Eligible for continuing studies (CS) grade. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 789 RESEARCH PROPOSAL DEVELOPMENT (3)**

Independent study in which the student develops a proposal for research founded in the literature and practice of applied psychology. The student must have the requisite skills for bringing the proposal to completion. The end product of the course is a research proposal that may be presented to the division as a thesis proposal. Course is NOT eligible for continuing studies grade. Pass/fail grading. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 798 CONTINUOUS ENROLLMENT (1)**

Provides continuing faculty direction, academic support services and enrollment services for students who have completed all course requirements for the degree but have not completed a thesis or final project. Students continue the independent work leading to finishing the thesis or final project that is significantly under way. Course may be repeated for credit as needed. Eligible for continuing studies (CS) grade; otherwise grading is pass/fail. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only. Prerequisite: completion of all course requirements for degree program.

### **APPL 799 THESIS IN APPLIED PSYCHOLOGY (3 - 6)**

An independent and original research effort, supervised closely by full-time faculty. It should be founded in the literature of applied psychology. The student is expected to demonstrate an ability to formulate research questions as testable hypotheses, to analyze data using appropriate research methods and design and statistical tools, and to present the entire work in a well-written document using APA style. The number of credits is determined when the proposal is approved. Eligible for continuing studies (CS) grade; otherwise grading is pass/fail. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 801 STATISTICS FOR ASSESSMENT AND EVALUATION I (3)**

An advanced course covering statistics common to field research, including partial and semi-partial correlation, ANCOVA, and multiple regression, and statistics used with dichotomous dependent variables, including logistic regression and nonparametric procedures (e.g., Chi-square, Cohen's Kappa, Fisher Exact test, Wilcoxon's Matched-Pairs Signed-Rank Test). Exams and projects involve examples of field assessment with an emphasis on interpreting results calculated using SPSS. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 802 STATISTICS FOR ASSESSMENT AND EVALUATION II (3)**

An advanced course covering multivariate statistical procedures, including factor analysis, MANOVA and MANCOVA, discriminant analysis, confirmatory factor analysis and causal modeling. Exams and projects

involve examples of field assessment with an emphasis on interpreting results calculated via SPSS.

Prerequisite: APPL 801.

### **APPL 803 MEASUREMENT THEORY (3)**

An advanced course in psychometrics that focuses on understanding the internal structure of scales used primarily for measuring abilities, personality traits, interests, values, and attitudes. Emphasis is on scale construction based on True Score Theory, Generalizability Theory, and Item Response Theory. This course assumes the understanding of reliability, validity, and scaling models. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 804 ORGANIZATIONAL THEORY AND DEVELOPMENT (3)**

Survey of organizational theory and techniques used in Organizational Development. Topics include organizational structure and communication, sources of power, organizational culture, Lewin's Change Model, Action Research, and Schein's Process Change. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 805 CONSULTING SKILLS (3)**

Focuses on the essential skills and abilities needed for successful consulting to organizations. Topics include business development, project management, cost estimation, and report writing. Emphasizes learning techniques used for successful group presentation. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only. developing skills for effective oral and written communications.

### **APPL 806 SURVEY DEVELOPMENT AND IMPLEMENTATION (3)**

Students learn how to plan, design, and implement surveys to assess organizational characteristics. Emphasis placed on how to collect, analyze survey data, and present findings to the organization. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 807 EXAMINATION CONSTRUCTION (3)**

An advanced course that develops skills in constructing examinations (primarily written) for employment and educational testing. Measurement theory is reviewed through data analysis projects that involve calculating estimates of reliability and validity, item difficulty and item discrimination, criterion-referencing, methods for setting cutoff scores, cross-validation, and jack-knife procedures. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 810 QUALITATIVE RESEARCH METHODS (3)**

Focuses on the predominant techniques for designing, collecting, and analyzing qualitative data. Various methods of data collection such as naturalistic observation, informal interviewing, in-depth immersion (ethnography), and focus groups are studied. Covers topics relating to content analysis, coding responses, ethical issues and comparing qualitative and quantitative measures. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

### **APPL 811 INDIVIDUAL ASSESSMENT (3)**

Focuses on assessing, interpreting, and communicating individuals' work-related characteristics, primarily for the purpose of staffing (hiring, promotion), development (competency building, rehabilitation, - employee counseling), and career planning. Skills in testing and interviewing are learned for the purpose of evaluating ability, personality, aptitude, and interest characteristics. Students are familiarized with standardized measures used in employment settings and learn to administer, evaluate, and report results to employees and managers. Prerequisite: This course is open only to the following majors: Applied



Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 812 GROUP PROCESS AND PROCEDURES (3)**

A study of the interpersonal interaction and task interdependence of work groups in organizations. Focus is on theory and research concerning group dynamics and teams, drawing from social psychology, organizational psychology, sociology, and organizational behavior. Topics include group leadership, motivation, interpersonal influence, group effectiveness, conformity, conflict, role behavior, and group decision making. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 813 PERFORMANCE APPRAISAL AND MANAGEMENT (3)**

A review of techniques for assessing and improving individual and group work performance. Topics include performance appraisal systems, assessment centers, structured interviews, and performance feedback and motivation. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 830 SPECIAL TOPICS IN ORGANIZATIONAL DEVELOPMENT (3)**

A course based upon faculty expertise and student interest. Representative topics include: Behavioral Prevention, The Mental Health Setting, Cross-cultural Issues, Organizational Culture and Learning, Change Models. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 840 SPECIAL TOPICS IN PROGRAM EVALUATION (3)**

Advanced topics in program evaluation methodology. Topic to be selected based on student interest. Representative topics include: Measuring Efficacy of Therapy Outcome, Time-Series Designs and Methods, Evaluation of Programs in an Elementary School Setting. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 850 SPECIAL TOPICS IN ASSESSMENT (3)**

Topical areas of interest to students relating to issues in assessment. Representative topics include: Legal and Ethical Issues in Testing, Cognitive Biases in Performance Appraisals and Interviewing, Assessment of Non-Verbal Behaviors, Computerized Data Collection, and Development of Assessment Centers. Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 897 PRACTICUM IN APPLIED ASSESSMENT (3)**

Supervised practicum experience with applied projects in public or private sector organizations. Emphasis on the development and implementation of an assessment instrument and feedback of findings to the organization. Projects will vary on a semester basis. Proposal writing and presentation skills will also be covered. Prerequisite: APPL 806 Survey Development & Implementation or consent of instructor.

Prerequisite: This course is open only to the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

**APPL 899 DOCTORAL PROJECT (3 - 6)**

An independent and original applied empirical research project that addresses an existing problem or opportunity in an organization. It must be founded in the literature and theory of applied psychology. The student is expected to demonstrate the ability to formulate a researchable question and test it in a field setting. The student is supervised closely by a full-time faculty member. A report of the project in APA style must be submitted to the project committee for approval. Prerequisite: This course is open only to

the following majors: Applied Psychology or Certificate in Professional Counseling Studies. Other majors may take this course with departmental permission only.

## **ARTS: Arts**

### **ARTS 101 MUSIC AND ARTS AS CRAFT (3)**

Examines the creative connections among individual imagination, artistic creation, audience reception and financial considerations, looking at the creative processes of artists such as Michelangelo, Mozart and Jackson Pollock as examples of the complex, often laborious and always evolving efforts that result in great works of art. Students talk with working artists, composers, conductors and collectors in the Baltimore area. [ART] [HAT] [AH]

### **ARTS 121 WORLD MUSIC (3)**

Equips students to understand diverse world cultures through the lens of those cultures' musical lives. Students develop skills in listening perception and cultural analysis while focusing on musical traditions from Africa, Central Europe, Native American communities, Latin America, India, Indonesia and Japan. The course also presents music's basic structural elements and descriptive terminology. [ART] [HAT] [AH] [GD]

### **ARTS 201 THE ARTS IN SOCIETY (3)**

An overview of the role that individual artistic expression and group artistic movements have played throughout history, with a focus on the individual and the arts, economics and the arts, and politics and the arts. [ART] [AH] [IL]

### **ARTS 202 TECHNOLOGY IN THE ARTS (3)**

An exploration of ways that technology has shaped the arts throughout history, that artists have appropriated and responded to technology, that technology facilitates management of the arts and that emerging technologies continue to influence the arts. [TF]

### **ARTS 230 THE ART OF FILM (3)**

A study of film as an art form. Course considers film as an artifact, made in particular ways and having a certain style and structure. Emphasis is placed on the ways film represents space and time. Laboratory fee required. [AH]

### **ARTS 240 THE BALTIMORE ART WORLD (3)**

Meet the personalities and enter the spaces that make art in Baltimore. Taught by established faculty who are artists in Baltimore themselves, this class will be a bird's eye view of the landscape of who is making music, visual art, theater, poetry, literature, and film and TV in Charm City. Featuring local and national artists as guests, and the occasional field trip to Baltimore arts events, museums, venues, public art spaces, and more. [AH]

### **ARTS 297 TOPICS IN THE ARTS I (3)**

Intensive exploration of topics in the arts of mutual interest to students and faculty. The topic of study appears under that name in the class schedule. Course may be repeated for credit when topic changes. Laboratory fee may be required. [ART] [HAT] [AH]

### **ARTS 298 TOPICS IN THE ARTS II (3)**

Intensive exploration of topics in the arts of mutual interest to students and faculty. The topic of study appears under that name in the class schedule. Course may be repeated for credit when topic changes. Laboratory fee may be required.

### **ARTS 304 ARTS AND IDEAS (3)**

An interdisciplinary study of enduring works of imagination and intellect that have contributed to the making of contemporary civilization. Examples of art, architecture and music are used to illuminate central themes in literature, philosophy and history. The cultural resources of the Baltimore area are used wherever appropriate. [ART] [CTE] [GIK] [HAT] [AH]

**ARTS 351 THE BUSINESS OF BEING AN ARTIST (3)**

A hands-on examination of the practical skills that are required to make a living as a professional creative artist in context of the 21st-century U.S. workforce. Topics include intellectual property, artists' agents and managers, entrepreneurial uses of the Web, leveraging social and new media, fundamentals of self-employment, grant-writing basics and complementary career tracks.

**ARTS 352 ESSENTIALS OF ARTS MANAGEMENT (3)**

Provides a broad-based view of the business of running a nonprofit arts organization in the context of the current economic environment, including grant writing, bookkeeping, marketing and management issues, event promotion and board development. prerequisite: ARTS 201 or INTA Program Director Permission

**ARTS 353 ARTS EVENT PRODUCTION (3)**

Learn how to plan and produce an art event such as a concert, variety show, gallery, pop-up or fundraiser by doing just that. In a real-world, semester-long exercise, students will work together to inception, plan, negotiate and publicize the event they decide on together. This class develops networking skills, a knowledge of Baltimore's arts infrastructure, and, at the end, an actual arts event produced by the class in cooperation.

**ARTS 397 TOPICS IN INTEGRATED ARTS (3)**

Intensive exploration of arts-related topics. Content varies according to the concurrent interests of faculty and students. Specific topic is listed in the schedule of classes. Course may be repeated for credit when topic changes. prerequisite: none unless listed in the class schedule

**ARTS 398 SPECIAL TOPICS IN INTEGRATED ARTS (3)**

Intensive exploration of arts-related topics. Content varies according to the concurrent interests of faculty and students. Specific topic is listed in the schedule of classes. Course may be repeated for credit when topic changes. Laboratory fee may be required. Prerequisite: none unless listed in the class schedule.

**ARTS 475 INTERNSHIP IN INTEGRATED ARTS (3)**

Students apply skills and knowledge from coursework to jobs in the field of arts management or performance. Interns will meet periodically as a group to share experiences and discuss problems and successes. Eligible for continuing studies grade; otherwise, grading: pass/fail. prerequisites: senior status and permission of the program director.

**ARTS 476 SEMINAR IN INTEGRATED ARTS (3)**

Senior-level capstone seminar required of all Integrated Arts majors. Through completion of a major project, a final paper and class discussion, students will demonstrate their knowledge and skills related to the role of the arts in society; the interaction of technology and the arts; and the integration of arts production, analysis and management. prerequisite: ARTS 475 [CAP]

**ARTS 489 INDEPENDENT STUDY IN ARTS MANAGEMENT (3)**

Consideration and completion of a special project in the area of arts management. Each student works closely with a faculty member who helps to set goals, develop a course plan and guide progress. Projects vary with individual student interests. prerequisite: permission of the program director

**ARTS 493 HONORS SEMINAR (3)**

An advanced interdisciplinary seminar that focuses on important books and issues and encourages independent thinking, clear presentation and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. Prerequisites: 3.5 GPA credit when topic changes. prerequisites: 3.5 GPA and permission of the Denit Honors Program director

**ARTS 494 HONORS PROJECT (3)**

Directed individual instruction in an advanced project of the student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a continuing studies grade. Prerequisites:

honors standing, 3.5 GPA and permission of both the Denit Honors Program director and the faculty director.

### **ARTS 497 SPECIAL TOPICS IN INTEGRATED ARTS (3)**

Intensive exploration of arts-related topics. Content varies according to the concurrent interests of faculty and students. Specific topic is listed in the schedule of classes. Course may be repeated for credit when topic changes. Laboratory fee may be required. Prerequisite: none unless listed in the class schedule.

## **BIOL: Biology**

### **BIOL 101 HUMANKIND AND THE BIOLOGICAL WORLD (3)**

Deals in a broad sense with how humans interact with, affect and are affected by other organisms. Presents an overview of the history of scientific thought, including important persons, shifts in philosophy and technological innovations. Pathogenic organisms, genetic predisposition and natural immunity to disease, as well as disease treatments and cures are discussed. Addresses the ways that human activities such as hunting, commercial fishing and deforestation have had an impact on other life on Earth. [GSCI] [QQT] [BPS]

### **BIOL 111 HUMAN BIOLOGY WITH LAB (4)**

Provides an overview of the structure and essential processes of the human body, including digestion, blood circulation, and the brain and senses. Human evolution, reproduction, early development and aging, and immunity to disease are discussed. The laboratory component of the course focuses on the design, practice and reporting of science. It includes exercises and experiments dealing with light microscopy, cell biology, genetics, and human anatomy and physiology. Laboratory fee required. [GSCI] [QQT] [BPSL]

### **BIOL 121 FUNDAMENTALS OF BIOLOGY WITH LAB (4)**

Introduction to the diversity of life on Earth. Cell structure, reproduction and chemistry are discussed. Provides an overview of the evolution, physiology and ecology of animals, plants and microbial life, including the impact of human behavior on ecosystems. The laboratory component of the course focuses on the design, practice and reporting of science. Laboratory exercises and experiments include an introduction to light microscopy; cell division; genetics; cellular respiration; photosynthesis; environmental science; and the examination of bacterial, botanical and zoological specimens. Laboratory fee required. [GSCI] [QQT] [BPSL]

### **BIOL 122 FUNDAMENTALS OF BIOLOGY LABORATORY (1)**

THIS COURSE, WITH ITS CO-REQUISITE BIOL 121, SATISFIES THE LABORATORY SCIENCE GENERAL EDUCATION REQUIREMENT. Focuses on the design, practice, and reporting of science. Laboratory exercises include an introduction to light microscopy, cell division, genetics, and the examination of bacterial, fungal, botanical, zoological specimens. Experiments expose students to physiological processes, such as cellular respiration and photosynthesis. Introduces students to ecology and environmental science and the implementation of field research Lab Fee

## **BULA: Business Law**

### **BULA 151 BUSINESS LAW I (3)**

A basic study of the judicial system, contracts, agency, fraud, sale of personal property, warranties, transfer of title, and legal remedies.

## **CHEM: Chemistry**

### **CHEM 101 CHEMISTRY AND THE MODERN WORLD (3)**

Focuses on the relationship between people and chemistry. Introduction to the fundamentals of chemistry, including the nature of matter and energy, atomic structure and chemical bonds. Addresses such subjects as the characteristics and makeup of the compounds that power automobiles and heat homes, the drugs that alleviate pain or ease depression, and the foods eaten to provide the components of the life-sustaining processes of the human body. [GSCI] [QQT] [BPS]

## **CMAT: Communications**

### **CMAT 201 COMMUNICATING EFFECTIVELY (3)**

Introduction to oral communication: interpersonal, small group and public speaking. Emphasis on accurately transmitting information, using effective strategies for informing and persuading, using effective communication techniques to work with others, and feeling at ease in front of an audience. Laboratory fee required. [CMAT] [COM] [ELECGE] [OC]

### **CMAT 207 PRACTICUM IN COMMUNICATION (3)**

Applied learning experience tailored to each student's academic and career interests. Students gain applied work experience in a communication-related field. Grading: pass/fail. Note: This course does not satisfy the corporate communication internship requirement. prerequisite: permission of the program director

### **CMAT 211 COMPUTER GRAPHICS: PUBLISHING (3)**

Introduction to page layout/design, illustration and presentation software. Students learn layout and design graphics for print publication and screen presentation. Laboratory fee required. prerequisite: working knowledge of MacOS

### **CMAT 212 COMPUTER GRAPHICS: IMAGING (3)**

Introduction to photographic and vector based software. Students process photographs and create vector graphics for web and print distribution. Laboratory fee required. prerequisite: working knowledge of MacOS

### **CMAT 215 INTRODUCTION TO DESIGN (3)**

Introduces the basic principles of design—contrast, repetition, alignment and proximity—and applies them through a series of assignments. Students examine the work of famous designers, along with important design styles of the 19th and 20th centuries. Other topics include color theory, grids and the design process. [ART] [HAT] [AH]

### **CMAT 216 HISTORY OF GRAPHIC DESIGN (3)**

Introduction to the history of graphic design. Addresses the difference between art and design and the roles both play in design's evolution. Areas of emphasis include historical periods, key movements, typography, significant events and pre-eminent designers [ART] [HAT] [AH]

### **CMAT 230 BALTIMORE IN THE MEDIA (3)**

A study of the image of Baltimore through the lens of the media. Students will analyze narrative and non-narrative films, television programs, books, short stories, websites, newspapers, magazines and blogs to gain a greater understanding of where they live and the city's evolution from the eyes of those who record and promote its happenings. Laboratory fee required. [ART] [GIK] [AH]

### **CMAT 231 DECODING MEDIA (3)**

Helps students develop a vocabulary and techniques for analyzing images and sounds: movies, ads, photographs, websites and more. Examines composition, color, sequencing, animation and sound and specifically how those elements alter meaning. [ART] [CTE] [HAT] [AH]

### **CMAT 271 INTERPRETING POP CULTURE (3)**

Interpreting Pop Culture (3) Examines various elements that define popular culture, among them the mass media, sports, fashion, restaurants and food, architecture, amusement parks and religion. Students

look at ways that pop culture institutions and products both shape and reflect the larger culture. [ART] [HAT] [AH]

**CMAT 296 TOPICS IN SPEECH COMMUNICATION (3)**

Intensive exploration of topics in speech communication. The topic for study appears in the class schedule. Course may be repeated for credit when topic changes. Laboratory fee required. [CMAT] [ELECGE]

**CMAT 297 TOPICS IN DIGITAL COMMUNICATION (3)**

Intensive exploration of a specific topic related to digital communication or media studies. The topic studied appears under that name in the course registration schedule. Lab fee may be required. [AH]

**CMAT 300 PUBLIC SPEAKING (3)**

A performance-oriented examination of the principles of public communication, emphasizing theory and rhetorical structure as well as presentation. Includes critiqued in-class practice of a variety of speech forms and strategies. Laboratory fee required.

**CMAT 320 ARGUMENTATION, DEBATE AND SOCIETY (3)**

Issue analysis, evidence evaluation, critical reasoning and counter advocacy. The principles of argumentation and debate are applied through student presentations and critical observation of contemporary debate in legal and legislative bodies. Laboratory fee required.

**CMAT 333 MEDIA GENRES (3)**

Analysis of the patterns and conventions of a specific type of media program (e.g., Western, science fiction, situation comedy), media artist (e.g., Hitchcock, Allen, Capra) or style (e.g., film noir). Course may be repeated for credit when topic changes. Laboratory fee may be required. [AH]

**CMAT 334 ORAL INTERPRETATION OF LITERATURE (3)**

Creative reading: the transformation of the writer's word through the reader's voice in expository, poetic, narrative and dramatic forms. A progression from reading to analysis to interpretation to presentation. Laboratory fee required.

**CMAT 336 PLAYS IN PERFORMANCE (3)**

Students study dramatic values, theatrical production values, and dramatic styles, and then apply that knowledge through the critical analysis of area theatrical productions. Offered as needed.

**CMAT 340 SURVEY OF DIGITAL COMMUNICATION (3)**

Organizations, consumers, and private individuals are flocking to digital communication, leaving traditional media behind. Through case studies, investigation, and projects, this course will examine the strengths and weaknesses of, differences between, and societal consequences of old and new media.

Prerequisite: None

**CMAT 342 THE RHETORIC OF DIGITAL COMMUNICATION (3)**

Overview of principles, strategies, and techniques for intentional communication that occurs within particular contexts and that influence communication choices. These include audience analysis, information transfer, persuasion, and associated ethical considerations. Special attention to changes from traditional to electronic to digital media. Prerequisite: None [TF]

**CMAT 350 INTEGRATED COMPUTER GRAPHICS (3)**

Introduction to a variety of desktop publishing, graphics manipulation and presentation software and digitizing and printing hardware. Students learn to create and manipulate images and integrate graphics with text. Laboratory fee required. Students who have completed CMAT 211 and CMAT 212 may not take this course for credit.

**CMAT 352 MEDIA LITERACY (3)**

An upper-level theory course that introduces students to a variety of ways of understanding the interactions between media and culture. The course examines media content and effects, media industries, cultural perceptions and notions about how meaning is constructed in these environments.

**CMAT 353 RESEARCH METHODS IN DIGITAL COMMUNICATION (3)**

Introduction to strategies, techniques, and tools useful in communication research. Students will gain experience finding and evaluating sources, identifying theoretical frameworks, and understanding the strengths, weaknesses, and applications of various research methodologies. Pre or co-requisite: WRIT 300. [IL]

**CMAT 355 COMMUNICATION THEORY AND LEARNING (3)**

Investigation and survey of contemporary communication theories and their application to learning through current research and literature in the field. Application to designing media programs and packages to meet specific instructional needs.

**CMAT 357 PRINCIPLES OF DESIGN (3)**

An introduction to the principles of design. The course will focus on the organization of visual space, typography, paper and color choices, visual strategies, and appropriate visual design choices for a variety of audiences. Prerequisite: Digital Communication computer graphic competency requirement. Laboratory Fee Required.

**CMAT 358 DIGITAL DESIGN (3)**

Introduction to interactive design principles, fundamental Web development concepts, and standards-based design practices that underlie digital design production for websites. Emphasis will be on how to create, manipulate, and prepare HTML and CSS-based web pages, designing effective site interfaces, appropriate typography and image use for the web, structural and content planning, the website development process and workflow, and increasing usability and functionality for enhanced user experience on the Web. Prerequisite : Digital Communication computer graphics competency requirement. Laboratory Fee

**CMAT 359 PRINT PRODUCTION (3)**

Processes and strategies for moving work from the designer's screen to the printer and finally to the audience. The course will examine the business relationship between designers and print vendors, the various stages of the printing process as it relates to digital design, and budget considerations that affect design. Students will learn to write print specifications and weigh the strengths and weaknesses of different printers and printing process. Laboratory Fee. Prerequisite : None

**CMAT 363 CREATIVE WRITING WORKSHOP: SCREENWRITING (3)**

Intensive writing experience for students interested in writing drama for television and film. Emphasizes characterization, dialogue and plot development as well as conventions of and script formats for television and film.

**CMAT 364 DIGITAL PHOTOGRAPHY (3)**

Explores creation and manipulation of both still and video images in the digital environment. Through lectures, critiques, demonstrations, picture taking and digital manipulation exercises, students learn to shoot, edit and use a variety of digital techniques to produce material for print and Web distribution. Emphasis is placed on the development of portfolio-quality pieces. Laboratory fee required. Prerequisite: CMAT 212 or equivalent.

**CMAT 366 PRODUCING SOUND PORTRAITS (3)**

Introduction to the art and craft of audio production. Students will listen to and produce a series of short audio programs, learning the tools, techniques, and aesthetics of the craft along the way.

**CMAT 368 PHOTOJOURNALISM (3)**

Problems of producing and selecting photos for print and for other visual media. The relationship between text, photographs and design. Experience in preparing photo essays that incorporate both photographs and copy. Laboratory fee required.

**CMAT 369 DIGITAL VIDEO (3)**

The use of portable video equipment and non-linear editing software for the production of location and small-studio non-broadcast presentations. The production context is emphasized with special attention given to social media, corporate and institutional uses of video. Laboratory fee required.

**CMAT 371 MASS MEDIA AND SOCIETY (3)**

Mass media as a vital force in contemporary society. The impact of television, film, music, advertising and other media on our economic, political and social systems. Evaluation of means to effect creative solutions to social problems via media use. A study of current controversies and research. Laboratory fee may be required.

### **CMAT 381 REPRESENTING REALITY: NEWS AND DOCUMENTARY (3)**

Examination of the process, problems and techniques of gathering and presenting information. Moving from a historical context, the course looks at the lines between news, documentary and propaganda; the forces that shape and influence the presentation of information; difficulties in determining objectivity; and contemporary issues relating to reality programming. Balancing theory and analysis are hands-on newsgathering and production activities. Laboratory fee may be required.

### **CMAT 391 PUBLIC RELATIONS STRATEGIES (3)**

Students will learn the strategies and tactics ( traditional and digital) that public relations specialists use to build relationships, manage brand reputations, and tell brand stories. These include situation and audience analysis, as well as media mix and dealing with clients. Special attentions will be given to maximizing visibility via social media. Prerequisite: None

### **CMAT 392 MEDIA BRANDING (3)**

In depth exploration of marketing and brand identity. Students explore successful historic and current campaigns, scrutinize media outlets for best brand penetration, and create and present their own brand identity campaign. Special emphasis is on digital and global marketing through social media.

Prerequisites: CMAT 211 and CMAT 212.

### **CMAT 407 INTERNSHIP IN COMMUNICATION (3)**

Students apply skills and knowledge from coursework to jobs in the field of corporate communication.

Grading: pass/fail. Course is eligible for a continuing studies grade. prerequisites: senior status and permission of the program director

### **CMAT 451 COMMUNICATION TECHNOLOGIES (3)**

Development of communication technologies, from mechanical, electrical, and wired to digital, wireless, and interactive. The course will keep students abreast of current practices, evolution and changes in interpersonal, mass and social media, focusing on technical development, economic and political factors, potential applications and societal impact. [TF]

### **CMAT 453 MEDIA AND COMMUNITY (3)**

An introduction to the ways that communications media shape people's perceptions of communities, ways that citizens can use various media to change those perceptions and ways to strengthen communities through increased and broader-based communication. Students examine case studies, learn basic techniques of producing messages in a variety of media and propose solutions to problems in their own communities by utilizing those media.

### **CMAT 454 MAGAZINE DESIGN (3)**

A study of design strategies, techniques, and decisions for company, trade, mass-market (consumer), print and digital magazines. The course also examines the contributions of each department and relationships among major staff positions. Students will conceive of, and design, a new print or digital magazine. Prerequisite: CMAT 357 Principles of Design. Laboratory fee required.

### **CMAT 455 HYPERMEDIA (3)**

An introductory survey of the many types of hypermedia, multimedia and other means of nonlinear writing now available in fiction, education and business. Combines theory and hands-on experience in the reading and composition of hypermedia and Web sites. Students explore the position of this new technology/language in contemporary culture.

### **CMAT 456 MOTION GRAPHICS (3)**

The conceptualization and production of time-based graphic design. After studying the fundamentals of interactivity, students learn to integrate graphic design, sound, and animation, develop prototypes and examine various interactive software tools. Application of problem-solving techniques to the corporate



environment and media presentations. Laboratory fee required. Prerequisites: CMAT 211, 212 or Computer Graphics Equivalency.

**CMAT 457 ADVANCED PRINT DESIGN (3)**

An advanced design course emphasizing the integration of typography and images in a series of projects of moderate and increasing complexity. Building on the foundation learned in CMAT 357, this course will focus on critical thinking and execution of ideas for a variety of audiences. Prerequisite: CMAT 357. Laboratory Fee.

**CMAT 458 PROJECT MANAGEMENT (3)**

An upper-level introduction to the skills and concepts necessary for the administration of a communications department or creating a freelance business. Topics include creation of a business identity, production planning and control, market and cost analysis, project proposals, estimating and billing forms and procedures, managing a real-world project, client presentations, organizational theory, legal and tax issues, and wiring a business plan.

**CMAT 459 ADVANCED DIGITAL DESIGN (3)**

This course builds upon the skills and fundamental Web design concepts introduced in CMAT 358 Digital Design. Students will learn advanced standards techniques and design skills and strategies for building complex websites and mobile applications. prerequisite : CMAT 358 Digital Design. Laboratory Fee.

**CMAT 469 ADVANCED AUDIO VIDEO PRODUCTION (3)**

Advanced techniques and experience in planning, producing, and editing audio and video presentations. Prerequisite: CMAT 369 or the equivalent; or permission of the instructor Laboratory fee.

**CMAT 475 MEDIA CRITICISM (3)**

Examination and application of the criteria for critically analyzing film, video and audio. Evaluation of the role of the critic and critical publications. Students compose and present critical reviews.

**CMAT 480 PORTFOLIO DEVELOPMENT (3)**

After articulating their professional goals—for example, as writers, designers, videographers or public relations specialists—students determine which of the materials they have created in the past will contribute positively to their portfolios and revise and improve those pieces. They determine what additional items their portfolios need and create them from scratch. Finally, they develop strategies for applying and interviewing for professional positions. Laboratory fee required. Note: Students entering this class must have a pre-existing body of work from which to draw. prerequisite: permission of the program director

**CMAT 485 SEMINAR IN DIGITAL COMMUNICATION (3)**

Capstone experience for digital communication majors. Students will complete a theoretical or applied project in their declared area of specialization and will include the product itself, appropriate documentation, and a reflective essay. Students will present the work to the faculty and other students in the major. They will also develop portfolios of their work and professional resumes. Prerequisite: Completion of the Digital Communications core ( or to be simultaneously enrolled in final core classes), senior status and permission from program director . Laboratory fee may apply. [CAP]

**CMAT 489 DIRECTED INDEPENDENT STUDY (3)**

Consideration and completion in depth of a special topic or project in communication. Each student works closely with a faculty member who helps set goals, develop a course plan and guide progress. The project must be carefully planned and have approval of the instructor involved and the program director. prerequisite: permission of both the instructor and the program director

**CMAT 493 HONORS SEMINAR: (3)**

An advanced interdisciplinary seminar that focuses on important books and issues, encourages independent thinking, clear presentation, and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. Prerequisites: 3.5 GPA and permission of the Honors Director.

### **CMAT 494 HONORS PROJECT (3 - 6)**

Directed individual instruction in an advanced project of the student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a continuing studies grade. prerequisites: 3.5 GPA and permission of both the Denit Honors Program director and the faculty director

### **CMAT 497 SPECIAL TOPICS IN COMMUNICATIONS (3)**

Intensive exploration of communication-related topics that are of mutual interest to faculty and students. Content varies according to the concurrent interests of faculty and students. The topic for study appears in the class schedule. Course may be repeated for credit when topic changes. Laboratory fee required. prerequisite: determined by topic

## **CNCM: Negotiations/Conflict Management**

### **CNCM 102 GLOBAL CONFLICT (3)**

Students explore the causes, costs, dynamics, and potential remedies to violent and structural conflict in the international system. The course addresses these issues from a broad range of social science vantage points, including the fields of international relations, sociology, anthropology, economics, law, and conflict management. Experiential learning will include student simulations of international conflict negotiations. Prerequisite: None. [SOSC] [GIK] [QQT] [SBS]

### **CNCM 297 SPECIAL TOPICS IN NEGOTIATIONS AND CONFLICT MANAGEMENT (3)**

Exploration of topics in negotiations and conflict management. Content varies depending upon the interests of faculty and students. Course may be repeated when topic changes. Prerequisite: Depends on course topic and level of difficulty.

### **CNCM 340 COMMUNITY CONFLICT: CAUSES, SOURCES, SOLUTIONS (3)**

Understanding and addressing conflict is critical to community success. This course will study the nature of social conflict, from interpersonal to community-wide. Students will consider sources of conflict; ways in which conflicts develop, escalate, and deescalate; conflict styles, strategies, and tactics; and options for managing conflict. This course will also have an experiential component which will allow students to develop their own conflict management skills. Prerequisite: None

### **CNCM 440 TERRORISM, COUNTERTERRORISM AND CONFLICT MANAGEMENT (3)**

This course provides an introduction to current scholarship on terrorism and counterterrorism. Students will explore cutting edge debates that highlight the need for sophisticated conflict analysis in the post 9-11 world. Readings, research, reports, films, discussion and debate, case studies, simulations and other class exercises will all be used to help students better understand the concept and origins of terrorism, explore similarities and differences in the way terrorists and counterterrorist's organize and strategize, approach the problem of securing support, engage in conflict and, in some cases, resolve their conflicts. Prerequisites: None

### **CNCM 497 SPECIAL TOPICS IN CONFLICT MANAGEMENT (3)**

Topics cover a broad overview of the conflict management field. Their primary emphasis is the study conflict and its management - from conflict behaviors to conflict intervention techniques. Students read about and discuss social conflict in a number of settings, ranging from interpersonal to international conflict.

### **CNCM 504 THE CONFLICT MANAGEMENT PROFESSION (3)**

Explores the diverse activities, roles and tasks of those who work in the conflict management profession. Introduces reflective practice to assist individuals, families, neighborhoods, organizations, regulatory bodies, and social and ethnic groups to take constructive steps toward managing, resolving or

transforming conflict situations. Students start understanding and exploring where and how they would like to connect with conflict management as a profession.

**CNCM 506 UNDERSTANDING AND ASSESSING CONFLICT (3)**

Introduces theories of conflict and different perspectives used to understand and assess conflict. Various views of conflict, conflict escalation and resolution are studied, utilizing insights from a range of disciplines including psychology, sociology, communications, cultural studies and law.

**CNCM 508 APPROACHES TO MANAGING CONFLICT/METHODS OF DISPUTE RESOLUTION (3)**

Introduces various approaches to managing conflict and explores the differences among approaches based on domination, compromise and integration. Covers various methods of dispute resolution, including litigation, negotiation, mediation and arbitration.

**CNCM 513 NEGOTIATIONS:THEORY AND PRACTICE (3)**

Introduces the theory and practice of negotiations and explores various models of negotiation and bargaining, highlighting similarities and differences in the models and methods of negotiation. Covers various stages of negotiation, from pre-negotiation to negotiation proper to post-settlement negotiation, and emphasizes the development of skills through the use of role plays to enable the student to apply theory to cases.

**CNCM 515 MEDIATION:THEORY AND PRACTICE (3)**

Introduces the theory and practice of mediation and explores various models of the mediation process as well as diverging views concerning the role of the mediator. Key issues include neutrality and bias on the part of the mediator, confidentiality, codes of ethics for mediators and the current status of legislation concerning the qualifications and licensing of mediators. Students develop and practice mediation skills by acting as mediators in various scenarios that illustrate the process of mediation.

**CNCM 519 ADVANCED MEDIATION SKILLS (3)**

Provides students with the opportunity to develop the advanced skills necessary to function as a mediator in the context of a particular model of mediation. prerequisite: CNCM 515 highly recommended

**CNCM 620 SPECIAL TOPICS: (3)**

Explores topics in the field of negotiations and conflict management. Topics vary according to student interest and faculty member specialization. Course may be repeated for credit when topic differs. prerequisites (if any): to be determined by instructor

**CNCM 630 INDEPENDENT STUDY (1 - 3)**

Research project related to studies in Negotiations and Conflict Management. Topics will vary based on individual student interest. Course may be repeated with permission of program director. Students should develop a proposal outlining their chosen topic for review by instructor of record and program director. Prerequisite: Permission of program director. Credit Hours: Variable (1-3).

**CNCM 710 TERRORISM & COUNTERTERRORISM (3)**

Provides an introduction to current scholarship on terrorism and counterterrorism. Students explore cutting-edge debates that highlight the need for sophisticated conflict analysis in the post-Sept. 11 world. Readings, research, reports, films, discussion and debate, case studies, simulations and other class exercises are used to help students better understand the concept and origins of terrorism, explore similarities and differences in the way terrorists and counterterrorist's organize and strategize, approach the problem of securing support, address conflict and, in some cases, resolve their conflicts. prerequisite: none

**CNCM 730 ORGANIZATIONAL CONFLICT AND CONFLICT MANAGEMENT SYSTEMS (3)**

Examines the nature of conflict as it occurs in organizations, how conflict can function both destructively and constructively in that context, and the history of how conflict has traditionally been viewed and managed in organizational contexts. Also considers the theory underlying the creation of integrated conflict management systems in organizations, the nature of such systems and how they are developed, designed and evaluated.

**CNCM 740 ETHNIC & CULTURAL FACTORS OF CONFLICT (3)**

Explores the roles played by ethnicity, race, religion and culture in the generation, resolution and conduct of conflicts within and between groups. Examines physical and symbolic markers of difference to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the grist for conflict or the grease that promotes resolution. Primary analysis is based on the examination of cases relevant to the different issues underlying these conflicts. prerequisite: CNCM 506 or permission of instructor

### **CNCM 750 RESEARCH METHODS (3)**

Introduces various methods of research in the social sciences, law and the humanities that students will encounter in the field of conflict studies. Also enables students to utilize a variety of systems of citation and reference.

### **CNCM 790 INTERNSHIP (3)**

Gives students a clinical, hands-on experience to support both their classroom learning and their career goals. Provides the opportunity to use and further develop applied conflict management skills, apply theory and research skills to the practice environment and network with conflict management professionals. Eligible for continuing studies (CS) grade; otherwise grading is pass/fail. prerequisite: completion of a minimum of 30 credits required for degree program

### **CNCM 798 CAPSTONE SEMINAR (3)**

A highly interactive seminar that guides students in completing their capstone research projects and in showcasing their research to the program community and beyond. Students will prepare an analytical research paper that integrates learning from the program courses, internship experiences, and other activities pertinent to their chosen research focus and unique interests in the program. Eligible for continuing studies (CS) grade; otherwise, grading is pass/fail.

## **COSC: Computer Science**

### **COSC 100 INTRODUCTION TO COMPUTER TECHNOLOGIES (3)**

An introduction to computer hardware and software and their uses. Introduces students to how computers, networks and the Internet work, how they impact our lives and the ethical implications of information technologies. Hands-on experience with a variety of computer applications, including spreadsheet, presentation, database application and Internet tools. Laboratory fee required. [COSC] [ELECGE] [TF]

### **COSC 101 BASIC CONCEPTS OF COMPUTER PROGRAMMING (3)**

Provides an overview of fundamental concepts related to computer programming. Introduces students to programming terminology, computational thinking, flowcharting, and working with computer languages. Hands-on experience with the creation of small programs and web pages. Laboratory fee required.

### **COSC 102 BASIC CONCEPTS OF CYBERSECURITY (3)**

Provides an overview of fundamental concepts related to cybersecurity. Introduces students to cybersecurity terminology, concepts, and technology. Provides the foundation for understanding computer security, mobile device security, and web security; the key issues associated with protecting information assets, and the latest computer/cyber-attacks and counter measures. Explores the basics of social, ethical, and legal issues associated with cybersecurity. Laboratory fee required. [TF]

### **COSC 150 INTRODUCTION TO GAME DESIGN (3)**

Covers beginning concepts in game studies, theory and non-digital game design. Topics will be applied to the production of game and simulation development projects. Note: Additional lab time outside of class may be required to complete course projects. Lab fee required. [AH]

### **COSC 151 COMPUTER PROGRAMMING I (3)**

A fundamental programming course focused on developing computational skills in problem-solving, algorithm development and program design, and principles of good programming. Topics include program

flowcharting, pseudo-coding, input / output techniques, control structures, data types, modularization, procedures and file handling. A high-level programming language will be introduced and used throughout the course to supplement the theoretical foundations. prerequisite: none [TF]

### **COSC 155 INTERNET TECHNOLOGIES: MASTERING THE BASICS (3)**

Provides an introduction to the Internet, as well as technologies used to generate and maintain Web pages, such as FTP, HTML, CSS, JavaScript and XML. Note: Additional lab time outside of class may be required to complete course projects. Laboratory fee required. [TF]

### **COSC 160 GRAPHICS FOR GAME DESIGN (3)**

Introduces 2-D computer graphics, including image generation, capture and processing. Particular emphasis on applications to interactive multimedia and computer game design. Provides basis for further study in 3-D graphics. Note: Additional lab time outside of class may be required to complete course projects. Laboratory fee required.

### **COSC 210 COMPUTER HARDWARE / SOFTWARE SUPPORT (3)**

Introduces students to the architecture and hardware components of modern computing systems such as PCs, servers and portable/mobile devices. Topics include hardware components and peripherals, installation, configuration and upgrading, diagnosing and troubleshooting, safety and preventive maintenance, portable systems, installation and optimization of system software, and basic networking. Course materials also prepare students for the vendor-neutral CompTIA A+ industry certification exam. Lab fee required. Prerequisite: None

### **COSC 212 INTRODUCTION TO LINUX (3)**

Provides the conceptual knowledge and hands-on skills necessary to work with the current distributions of the Linux operating system. Topics include open source software, Linux installation and system software, common commands, tools and utilities, file systems management, basic administration, process management, network and service configurations, application installation and writing of simple shell scripts. Course materials prepare students for the vendor-neutral CompTIA Linux + industry certification exam. Lab fee required. Prerequisite: None

### **COSC 250 GAME SCRIPTING (3)**

Advances a student's knowledge of game software design by examining advanced functions, variable types, software design tools and programming concepts. Expands upon materials covered in COSC150: Introduction to Game Design while also introducing students to more complex types of data and programming structures. Introduces students to the software design process and focuses on developing good software design habits as well as advanced knowledge of programming techniques. By the end of the course, students are able to implement more fully their game design ideas in a software prototype. Lab fee required Prerequisite: COSC 150 or equivalent.

### **COSC 251 COMPUTER PROGRAMMING II (3)**

Introduces the syntax of an object-oriented language and teaches object-oriented programming concepts and design. To teach these concepts, the course presents an object-oriented programming language such as Java, C#, or C++, while developing problem-solving and algorithm design skills. Lab fee required. prerequisite: COSC 151 or equivalent

### **COSC 260 INTRODUCTION TO 3D GRAPHICS (3)**

Introduces students to modeling, texturing, lighting, rendering and simple animation using industry-standard tools. Provides a foundation for further work with sophisticated 3-D imaging tools. Additional lab time outside of class may be required to complete course projects. Lab fee required. Pre or co-requisite: COSC 160, CMAT 212 or equivalent

### **COSC 297 TOPICS IN COMPUTER SCIENCE (3)**

Explores issues, concepts and methods in computer science. Content varies depending upon the interest of faculty and students Course may be repeated when topic changes.

### **COSC 310 FUNDAMENTALS OF COMPUTER NETWORKS (3)**

An introduction to computer networks, including network operating system concepts. Topics include network components, layered network architectures, topologies, network protocols, Ethernet, wireless transmission, local area networks, wide area networks, switching and routing, network configuration and troubleshooting. Course also prepares students for CompTIA's Network+ certification exam. Lab Fee required. Prerequisite : COSC 210 or equivalent

### **COSC 312 ADMINISTERING AND SUPPORTING A NETWORK OPERATING SYSTEM (3)**

Prepares students to install, configure, administer and troubleshoot the current version of Microsoft Windows Server network operating system. Topics include setting up user and group accounts; securing network resources; auditing resources and events; monitoring network resources; backing up and restoring data; managing system policies, file systems and fault tolerance; interoperating between network operating systems; implementing network clients and directory replication; managing/ implementing disaster recovery; and troubleshooting. Lab fee required. prerequisite: COSC 310

### **COSC 315 PROGRAMMING FOR INTERACTIVE DESIGN (3)**

An introduction to object-oriented computer programming framed in the technical aspects of game programming. The course covers variables, control structures, functions, arrays, data types, classes, inheritance and polymorphisms. Students apply these concepts to build a series of small games. Laboratory fee required. Prerequisite: COSC 250 or equivalent and Simulation and Game Design major.

### **COSC 320 GAME CONCEPT AND DESIGN (3)**

An advanced exploration of the practice of game design. Students learn both game design theory and best practices to build an understanding of how gameplay is constructed and shaped. Develop practical game creation experience through rapid prototyping exercises, theoretical design problem-solving, and semester-long guided design projects. Lab fee required. Prerequisite: COSC 150 [GD]

### **COSC 324 DESIGNING FOR HUMANS (3)**

Introduces key concepts of human/computer interaction, including how humans interact with technology to find and process information. It also introduces the concepts of systematic software testing to students of applied information technology and students of interactive simulation and computer gaming. Students learn principles of interface and software construction and apply them to practical problems of software or game evaluation in the process of learning principles that underlie good interaction and play design. Readings cover theory of human/computer interaction, interaction design and usability testing. Laboratory fee required. [IL]

### **COSC 330 GAMES FOR LEARNING (3)**

Conveys the skills necessary for students to begin a career in instructional video game design. Expands on previous game design courses but focuses on the creation of serious games for adult and child learning. At the end of the course, students design, develop and test a working prototype of a video game for learning. Lab fee required. prerequisite: COSC 150 or equivalent, by permission of the program director

### **COSC 332 FUNDAMENTALS OF COMPUTER SECURITY (3)**

Introduces students to core principles and practices in computer and network security. Covers the fundamentals of computer/network security including general security concepts; threats and vulnerabilities; application, data and host security; access control and identity management; basics of cryptography; and compliance and operational/organizational security. Current topics in computer security such as cloud computing security and application programming development security also are discussed. Course materials prepare students for the vendor-neutral CompTIA Security+ industry certification exam. Lab fee required. Prerequisite: COSC 210 or equivalent. [GD]

### **COSC 350 FUNDAMENTALS OF COMPUTER PROGRAMMING (3)**

Provides an introduction to internet technologies that generate dynamic web pages, such as HTML, CSS, and JavaScript. Teaches fundamental concepts and design strategies of object-oriented programming using a language such as Java, C++, or C#. Serves as a foundational course for the Upper-Division Certificate in Computer Programming. Lab fee required. Prerequisite: admission to the Upper-Division

Certificate in Computer Programming or permission of the Applied Information Technology program director

### **COSC 351 OBJECT ORIENTED PROGRAMMING (3)**

Introduces abstract data types, as well as generic classes and methods, complexity and algorithms. It also focuses on the design and implementation of object-oriented data structures. The course is based on an object-oriented programming language such as Java, C#, or C++. Proficiency in an object-oriented programming language is required. Lab fee required. prerequisite: COSC 251 or equivalent . [TF]

### **COSC 356 DATABASE SYSTEMS (3)**

Introductory course to database design and implementation. Topics include modeling using Entity-Relationship (E-R) diagrams, query formulation with Structured Query Language (SQL), database planning and design, normalization, creating and maintaining a database administration. Basic concepts of the relational data model and SQL are discussed in detail. Students plan, design and test a relational database and associated application components. They also obtain hands-on experience using a current version of Microsoft SQL Server Database Management System or another system. Lab fee required.. Prerequisite: COSC 251.

### **COSC 370 LEVEL DESIGN (3)**

Builds on an existing understanding of game design concepts, scripting and 3-D asset creation and provides students with the opportunity to apply this to advanced level design utilizing professional tool sets. Projects are team based and emulate industry best practices using a current 3-D game engine. lab fee required, prerequisites: COSC 150, COSC 250, and COSC 260 or their equivalents

### **COSC 380 ADVANCED TOPICS IN ART AND ANIMATION (3)**

Focuses on the development of 2D art and animation skills, and their application to real-time simulations and games. Projects creatively apply an advanced understanding of traditional 2D art and animation techniques to the creation of portfolio-quality work. Students develop a sensibility and vocabulary to critique 2D art and animation. NOTE: Additional lab time outside of class may be required to complete course projects. Prerequisites: COSC 160 or CMAT 212.

### **COSC 390 GAME JOURNALISM (3)**

Focuses on building the reporting and writing skills needed to write game reviews and other video game-related news articles. Students regularly practice writing game-related pieces and develop their critical analysis skills through peer review; they are expected to learn through practice, peer review and review of existing published works. Topics covered include: What is journalism and how does game journalism differ? How do the elements of video games translate to written works, and how does one translate game concepts to a general reading audience? Lab fee required. prerequisite: COSC 150 and WRIT 300

### **COSC 401 THE TCP/IP PROTOCOL SUITE (3)**

Introduces students to the TCP/IP suite of communication protocols. Topics include fundamentals, basic and advanced IP addressing, TCP/IP routing, TCP/IP name resolution, TCP/IP tools, dynamic P/IP configuration tools, WINS, NetBIOS, Internet/intranet services, printing and RAS, network management, and monitoring and troubleshooting. Laboratory fee required. prerequisite: COSC 310

### **COSC 402 INTERACTIVE NARRATIVE (3)**

Covers advanced principles of creating interactive narrative experiences, from creative writing to storyboarding and interaction design. Focuses on examples of successful and experimental interactive narrative from across media, including video games, electronic literature, interactive fiction and gamebooks. lab fee required. prerequisites: COSC 150 and WRIT 300

### **COSC 405 THE BUSINESS OF GAME DEVELOPMENT (3)**

Examines the past, present and future of the video game industry, with an emphasis on business organizations and practices that have evolved along with the medium. Particular attention is given to opportunities and requirements for new ventures in games and other areas of interactive design. Laboratory fee required.

### **COSC 407 SOCIAL MEDIA AND GAMES (3)**

Examines games and simulations as systems designed for common use and collaboration and the ways non-game social media can promote markets for digital entertainment. Theoretical approaches are compared to current implementations and tested in one or more limited practical experiments. Laboratory fee required. Prerequisites: COSC 320 and WRIT 300

### **COSC 408 HISTORY OF VIDEO GAMES (3)**

This course surveys the history of video games, from the first experiments in the decades following World War II, to the current era of consoles and network games. Despite being a relatively recent medium, video games have already undergone significant evolution from their earliest roots. We will be examining these transformations in terms of art, narrative, graphics, audio and game mechanics. Throughout the course, we will position these trends within the cultural roles games have played and speculate on the future of the form. Lab fee required. Prerequisite: COSC 150 and WRIT 300

### **COSC 410 INTERMEDIATE 3D ART AND PRODUCTION (3)**

Improves an existing understanding of 3-D modeling, texturing and animation for interactive simulation applications, including scenic and character design for computer games. Practical assignments allow students to advance skills in industry-standard programs (e.g., 3D Studio and Maya). Readings, critical examples and visits from industry experts provide broader contexts for skills. Laboratory fee required. prerequisite: COSC 260

### **COSC 412 UNIX / LINUX ADMINISTRATION (3)**

Students develop skills required to administer the Unix /Linux operating systems. Topics include installing and configuring a popular distribution, common tools and utilities, file system administration, user and group management, network / Internet service configuration, user and system security, shell scripting, kernel configurations, interoperability with Windows, back-up and storage, and troubleshooting. Lab fee required. prerequisites: COSC 151 and COSC 212 or their equivalents.

### **COSC 414 AUDIO INTEGRATION IN GAMES AND SIMULATIONS (3)**

Concentrates on the design of sound elements for use in computer games and other forms of interactive simulation. Practical design exercises based on standard production software and popular game engines are combined with theoretical readings, critical studies and visits from industry experts. Laboratory fee required.

### **COSC 415 CODING TOOLS FOR DESIGNERS (3)**

Teaches programmers to create modular tools for other team members, including non-programming game designers. Tools may consist of components, shaders, macros, level editors and other augmentations for game engines. Programmers apply design knowledge to analyze and develop for a specialized set of end user needs. Through an iterative development process, students apply solid principles of user interaction design to create tools that are intuitive. Prerequisite: COSC 315

### **COSC 418 DESIGN OF MULTIPLAYER GAMES (3)**

Examines the design principles and challenges underlying games and interactive simulations designed to be used collaboratively or in situations of simultaneous use, from multiplayer console games to massively multiplayer Internet games and their associated virtual communities. Assignments include development of modules or levels for popular multiplayer games and systematic study of Internet game communities. Laboratory fee required. Prerequisite: COSC 250

### **COSC 420 ADVANCED 3D ART AND PRODUCTION (3)**

Builds on 3-D design concepts learned in COSC 260: Introduction to 3-D Graphics and COSC 410: 3-D Modeling to explore cutting-edge, industry-standard techniques for the creation of 3-D game graphics and animation. Projects focus on emerging technologies and practices and on optimization of models for real-time simulations. Students are required to apply creatively an advanced understanding of 3-D modeling to portfolio- quality work. Additional lab time outside of class may be required to complete course projects. Prerequisite: COSC 260 and COSC 410 or their equivalents

### **COSC 424 INTERACTION DESIGN FOR GAMES (3)**



Advances a student's knowledge of game software design by examining interaction and interface design concepts as they relate to game design. Introduces students to human-computer interaction concepts pertaining to game design through the examination of input devices, on-screen displays, feedback to the user, and usability research. Students demonstrate their knowledge by generating game interfaces and interaction design that involves developing and user-testing a prototype game during the semester. Lab Fee Required. prerequisite: COSC 324

### **COSC 430 LEGAL ISSUES IN HIGH TECHNOLOGY CRIME (3)**

Examines the general regulations, general and computer-related law, and ethics and business policies, associated with high technology crime. Areas of major focus include description of legal issues facing management and administration, traditional search and seizure as well as privacy issues, manager and supervisor responsibilities, criminal issues and definitions, chain of custody and ethical considerations. Problem-oriented course that focuses on applying the holdings of cases and analyses of statutes to different criminal fact patterns. prerequisite : none

### **COSC 432 INFORMATION ASSURANCE (3)**

Provides an introduction to the various technical and administrative aspects of information security and assurance. Discusses the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system with appropriate intrusion detection and reporting features. Ethical, legal and professional issues in information security are also discussed. Students develop familiarity with research and information resources to forecast emerging problems and strategies in this area. Laboratory fee required. prerequisite: COSC 310 and COSC 332

### **COSC 433 NETWORK SECURITY (3)**

Deals with the conceptual and technological aspects of network security. The course begins with a review of various forms of network attacks, including scanning, exploits and denial-of-service attacks. It discusses the role of major networking devices, including routers, firewall technology and servers, in establishing a secure network. It provides a comprehensive overview of building and maintaining firewalls in a business environment. It discusses how to make an intelligent choice of firewall technology and firewall planning/design and presents basic firewall troubleshooting. It also covers security policy development, authentication, encryption, VPNs and IDSs. Laboratory fee required. prerequisite: COSC 310 and COSC 332

### **COSC 434 WEB AND DATABASE SECURITY (3)**

Introduces the security challenges and threats in database/Web-based systems. Students learn how to describe and apply security principles and technologies and how to implement them across various database/Web systems. In addition, advanced topics related to database/ Web systems such as e-commerce security, security problems in data warehousing and data mining are introduced. Lab fee required. Pre-requisite: COSC 155, COSC 332, and COSC 356.

### **COSC 435 DIGITAL FORENSICS FOR INFORMATION TECHNOLOGY (3)**

Introduces students to computer forensics and investigation and examines the digital footprints left behind by the use or misuse of computer systems and networks. Exposes students to current techniques, tools and best practice in securing, collecting, processing, examining and presenting digital evidence. Lab fee required. prerequisite: COSC 310 and COSC 332.

### **COSC 440 FRONTIERS OF GAME DESIGN (3)**

Focuses on one or more emerging technologies or practices likely to shape the video game industry in the next three to five years. Students both investigate the history and rationale of the innovation and develop practical experiments or proofs of concept indicating possible applications. Laboratory fee required. COSC 250 or COSC 315 or equivalent, and Simulation and Digital Entertainment (SDE) major.

### **COSC 445 PRACTICAL GAME PROGRAMMING (3)**

Builds upon existing knowledge students have acquired to introduce production environment programming concepts and habits. Examines common programming techniques used in a business

environment including program modeling, unit testing, and advanced programming patterns. The course will take an application-based approach to understanding the fundamental problems of working in a complex programming environment which requires teamwork and integration of code across multiple levels. Prerequisite: COSC 315

### **COSC 450 SGD INTERNSHIP (3)**

Provides students with hands-on work experience in applied simulation and game development. Students may arrange placement with an external organization, subject to written approval by the instructor and an official of the organization. Alternatively, students may participate in an in-house project managed by the instructor. In the latter case, students attend regular class meetings as part of their project work. Laboratory fee required.

### **COSC 451 OBJECT-ORIENTED ANALYSIS AND DESIGN (3)**

Presents concepts and techniques in the development of robust design models and of applications of the United Modeling Language to fundamental object-oriented analysis and design concepts, including architecture, objects, classes, components, relationships, and supporting diagrams. Lab fee required. Prerequisite: COSC 351

### **COSC 452 INTERNSHIP IN SIMULATION AND DIGITAL ENTERTAINMENT: PRODUCTION AND DESIGN (3)**

Internship course intended to give students professional experience in software reliability and play testing in computer games and other areas of applied interactive simulation. Students are assigned projects in area industries or in an on-campus development facility to be developed with local companies. Laboratory fee required.

### **COSC 453 ADVANCED WEB DEVELOPMENT (3)**

Presents a detailed study of the methods and technologies for building highly interactive websites and other Web-based applications. Principles for building websites that exhibit usability, security and maintainability are presented. Students learn scripting, coding and utilizing website development tools to enhance the performance and functionality of a website. Technologies such as HTML5, XML and Ajax are introduced. Requires students to build multiple Web pages and implement a major website/ Web application in phases. Lab fee required. prerequisites: COSC 155 and COSC 251 or their equivalents

### **COSC 456 ADVANCED DATABASE SYSTEMS (3)**

Covers advanced topics in database systems, intended to help students understand storage and indexes, query processing and optimization, transaction management, concurrency control, database administration and security, data warehousing concepts, OLAP and data mining, and distributed database and replication. Lab fee required. prerequisite: COSC 356

### **COSC 457 MOBILE APPLICATIONS PROGRAMMING (3)**

Introduces students to mobile application programming and provides an understanding of the underlying wireless architecture and infrastructure in native environments. Discusses various aspects of mobile applications and design patterns, and students gain hands-on development experience with at least one mobile platform. Lab fee required. prerequisite: COSC 351 or equivalent.

### **COSC 460 GAMES, SIMULATIONS, AND SOCIETY (3)**

Examines the nature of games and how they are framed by and impact individuals and groups. Topics include scholarly work on online economies and community building, fan cultures and their creative reworking of game content, the role of play in human culture and the relationships between online and offline identity, as well as psychological facets of games. Laboratory fee required.

### **COSC 461 IT PROJECT MANAGEMENT (3)**

Introduces the concepts and practices associated with IT project management and helps students understand how successful IT projects are effectively managed so that projects are completed on time, within budget and meeting customer's needs. Teaches students the key processes, from project initiation to project closure. Students gain working experience with the latest versions of the most popular project management software and tools available to project managers. Lab fee required. prerequisite: WRIT 300

**COSC 469 GAME DEVELOPMENT PROJECT I (3)**

Constitutes the first part of the capstone experience in the Simulation and Digital Entertainment major. Students work through design assignments to practice project management and team coordination. They also research and propose individual project concepts, some of which are selected for group development as the final course project and for further work in Game Development Project II. Laboratory fee required. prerequisites: Simulation and Game Design major with senior status, COSC 320, COSC 260 and COSC 250. pre- or corequisite: COSC 155 [CAP]

**COSC 470 GAME DEVELOPMENT PROJECT II (3)**

Provides the capstone experience for students in the Simulation and Digital Entertainment major. Working with faculty and visiting industry experts, students propose a concept for a computer game or applied interactive simulation, developing that concept over the course of the semester through several stages of specification and prototyping. Theoretical readings and critical studies of existing games provide insight and context. Final prototypes are presented publicly at the end of the course. Lab fee required. prerequisite: COSC 469 and Simulation and Game Design major with senior status. [OC] [CAP]

**COSC 477 COMMUNITY -FOCUSED GAME DESIGN (3)**

Students collaborate with the community to build a game focused on solving a problem or addressing a community need. Possible projects can incorporate a range of digital and communication skill sets and might include physical games (card, board), alternate or augmented reality, browser-based games, simulations or other forms as appropriate to the project. Lab fee required. prerequisite: COSC 150  
COSC 480 INTERNSHIP IN APPLIED INFORMATION TECHNOLOGY (3 - 4)

Provides students with hands-on work experience in Applied Information Technology. Students may arrange placement with an external organization, subject to written approval by the instructor and an official of the organization. Prerequisites: five courses (15 credits) within the AIT major at any level and approval of the instructor.

**COSC 481 UNDERGRADUATE RESEARCH EXPERIENCE (1 - 4)**

Preparation of a work of original research or a substantial IT project displaying practical knowledge of relevant research. Each student develops a substantial thesis project that incorporates innovative approaches to technology based problems. Eligible for continuing studies (CS) grade. Lab fee required. Prerequisites: five courses (15 credits) within the AIT major at any level and approval of the instructor.

**COSC 490 PRACTICUM IN INFORMATION TECHNOLOGY (3)**

Provides students with hands-on work experience in applied information technology. Students may arrange placement with an external organization, subject to written approval by the instructor and an official of the organization. Alternatively, students may participate in an in-house project managed by the instructor. In the latter case, students attend regular class meetings as part of their project work. Laboratory fee required. prerequisites: COSC 461 and at least 3 courses in the student's chosen track [OC] [CAP]

**COSC 493 HONORS SEMINAR (3)**

An advanced interdisciplinary seminar that focuses on important books and issues, encourages independent thinking, clear presentation, and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. Prerequisites: 3.5 GPA and permission of the Honors Director

**COSC 494 HONORS PROJECT (3 - 6)**

Directed individual instruction in an advanced project of the student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a continuing studies grade. Laboratory fee may be required. prerequisites: 3.5 GPA and permission of both the Denit Honors Program director and the faculty director

### **COSC 497 TOPICS IN COMPUTER SCIENCE (3)**

Intensive exploration of topics in computer science of mutual interest to faculty and students. Content varies according to the current interests of faculty and students. The topic for study appears under that name in the class schedule. Course may be repeated for credit when topic changes. Laboratory fee required.

### **COSC 499 INDEPENDENT STUDY (1 - 3)**

The pursuit of independent study under the supervision of a full-time faculty member. The number of credits to be earned is determined by the supervising faculty member before the study begins. Students may earn up to 3 credits for this independent study. Laboratory fee required. prerequisite: varies; see class schedule or instructor

### **COSC 789 SPECIAL TOPICS IN COMPUTER SCIENCE (3)**

One or more specific topics in computer science or its applications may be studied by advanced students. Topics arise from mutual interests of faculty and students. May be repeated if topic differs. Lab fee required.

### **COSC 790 INDEPENDENT STUDY (1 - 3)**

Problem-solving project, programming project and/or independent research in some aspect of computer science. The topic and number of credits vary with individual student interest and the extent of study. Prior to registration, students submit a written proposal with the consent and advice of a full-time faculty member, who approves it and agrees to supervise the study. Lab fee required.

## **CRJU: Criminal Justice**

### **CRJU 200 CRIMINAL JUSTICE (3)**

Examines the fundamental concepts of the criminal justice field; the history, philosophy, social development and operations of police, courts, and corrections in a democratic society; and criminal justice careers. Prerequisite: None. [SOSC] [QQT] [GIK] [SBS]

### **CRJU 220 POLICE AND SOCIETY (3)**

This course is an overview, designed to examine law enforcement service delivery at the local, state and federal levels of government. Special emphasis will be placed upon the historical development of the law enforcement role in contemporary society and how it shapes the type of law enforcement service that can be expected in the future. Prerequisite: Not Applicable

### **CRJU 270 HOW TO BREAK OUT OF PRISON (3)**

Focuses on issues, barriers and challenges to the successful reintegration of individuals transitioning from prison to society. Provides an examination of historical and emerging developments in the field of re-entry with special emphasis on evidence-based practices.

### **CRJU 275 URBAN STREET CRIME (3)**

Street crime may be defined as the most public and violent form of crime in the United States. Because of its visibility, street crime often generates the greatest fear of becoming a victim. This course critically analyzes the complexity, pervasiveness and multiplicity of urban street crime. Political, economic and societal contexts provide the framework for an examination of the commission and reactions to street crime. The focus is proportionately on the relationship between street crime and street culture, and the driving forces behind street offenders.

### **CRJU 300 CRIMINAL JUSTICE ETHICS (3)**

Examines ethical and moral values and professional responsibilities and decision-making as they pertain to the criminal justice system. Recognize characteristics of an ethical system and ethical frameworks for various criminal justice organizations. Explores ethical implications of discretionary power and various policy issues. Analyzes ethical dilemmas and ethical conduct versus misconduct. Course is not considered a substitute for IDIS 302.[IL]

**CRJU 301 THE CONTEMPORARY CRIMINAL JUSTICE SYSTEM (3)**

A critical analysis of the contemporary criminal justice system. Political, economic, and societal contexts provide the framework for an examination of system-wide issues, current problems, and challenges facing the criminal justice system. [SBS]

**CRJU 302 CRIMINAL JUSTICE RESEARCH METHODS (3)**

A survey of the research methods and techniques utilized within the field of criminal justice and criminology. Topics discussed include research designs, sampling, data collection, quantitative versus qualitative methods, and applications to criminal justice planning and administration. Pre-requisite: CRJU 301 [IL]

**CRJU 306 CRIMINOLOGICAL PERSPECTIVES (3)**

The major paradigms, models, and theories that form the foundation of criminal justice and criminology are examined. Using current texts, journals, and reports, the course examines the range of explanations of criminal behavior, focusing on attempts to integrate perspectives and theories. Pre-requisites: CRJU 301 AND WRIT 300.

**CRJU 308 CYBER CRIME (3)**

This course examines both the traditional and contemporary forms of cybercrime, including hacking, insider threat, cyberbullying, hacktivism, and cyberterrorism. In addition, this course will apply a variety of sociological, psychological, and criminological theories to explore the cause and motivation of offenders that has led to the significant rise in cybercrimes.

**CRJU 320 POLICE ADMINISTRATION (3)**

Study of line and staff functions in police organizations. Examination of organization principles, management functions, and organizational behavior as they relate to police agencies. Emphasis upon the behavioral science approach to supervising and managing police personnel.

**CRJU 330 CRIMINAL LAW (3)**

An examination of the general and specific parts of the substantive criminal law in the United States, its development within historical and societal contexts, and its representation in statutory and case law. Consideration is given to problems of application and interpretation of the written law.

**CRJU 334 CRIMINAL PROCEDURES (3)**

This course is designed to present the principles and applications of procedural criminal law in the United States. Such procedural laws are supplemented by rules of evidence and decisions of the U.S. Supreme Court on key constitutional questions. Prerequisite: CRJU 200 Criminal Justice or equivalent.

**CRJU 341 CORRECTIONAL PERSPECTIVES (3)**

Introduces students to the history, role, functions, problems, and contemporary practices of correctional facilities, including prisons, jails, and community corrections, e.g., probation and parole, and the role and difficulties of inmates and correctional officers.

**CRJU 350 CRIME, FILM, AND REALITY (3)**

This course focuses on how cinema and literature depict images and concepts of justice. Films and stories about crime and the criminal justice system will be analyzed to see how these depictions of justice relate to gender, race, sexuality and social class. Empirical research will be contrasted with depictions of justice issues in film and literature.

**CRJU 375 WOMEN AND CRIME (3)**

A study of the nature and extent of women's crime, theories of female criminality, processing of women offenders through the criminal justice system. Additionally, the course provides examination of changing social values about gender and of the response of law enforcement agencies and society as a whole to women as victims of crime.

**CRJU 380 POLICE REFORMS (3)**

Almost all policing is done at the local and state level, not federal; while there are over 18,000 law enforcement agencies in the United States, only a dozen or so are federal. It's at the local and state level, then, where reform can and should happen. This course explores the various models of police reform that

have been effectively implemented in recent years and the option of defunding police versus rebuilding police.

**CRJU 390 VICTIMOLOGY (3)**

An introduction to the study of crime victims. Examines the victim's role in crime, the criminal justice system's handling of victims, and victim services.

**CRJU 392 THE TRAUMA OF VICTIMIZATION (3)**

Provides the foundation for understanding the trauma of victimization; examines the impact of trauma and describes the short and long term effects of trauma; and explains how past trauma can lead to ongoing problem behaviors. Develops skills and increases awareness of the necessary core competencies in trauma-informed services and administration. prerequisite: none

**CRJU 394 MULTI-DISCIPLINARY PERSPECTIVES ON INTERPERSONAL VIOLENCE (3)**

Examines the complicated nature and dynamics of interpersonal violence. Presents a general overview of interpersonal violence, such as definitions, characteristics, and theoretical models; and various sources of data on interpersonal violence and measurement issues. Provides the historical development and evolution of the multidisciplinary response to interpersonal violence including law enforcement response, specialized courts, and treatment programs; civil actions; and the role of community and human service agencies. Current issues and innovations related to interpersonal violence are integrated throughout the course. prerequisite: none

**CRJU 396 CONTEMPORARY ISSUES FOR VICTIMS OF CRIME (3)**

Analysis of crime and social reaction from the point of view of those who are offended, the crime victims. The course focuses on the relatively recent emphasis on how crime creates problems for those victimized by criminals and analysis of whole populations victimized by persons known to them. Analysis of contemporary issues relating to crime victimization as they have evolved based on legal, political, and social changes. prerequisite: none [GD]

**CRJU 398 BEST PRACTICES FOR VICTIM SERVICES (3)**

Introduces the emerging field of victim services in context with the underlying legal structure of victims' rights. The system of victim services both within the criminal justice system and through other allied professions are examined. Best practices in victim assistance programs -from law enforcement through the courts and corrections systems to financial remedies, community-based advocacy, and treatment and support services -are also reviews. prerequisite: none

**CRJU 400 A DIALOGUE WITH A VICTIM (3)**

Provides a critical and in-depth review of some of the communication barriers criminal justice personnel will encounter when interacting with victims and witnesses in the course of an investigation. Particular attention is spent critically examining the competing narratives (e.g., individual, professional, personal, cultural) that often present when interviewing a victim/ witness, and how those narratives can impede the flow of communication and the investigative process. Strategies to reduce these obstacles are explored. Prerequisite: None

**CRJU 404 COMPARATIVE CRIMINAL JUSTICE (3)**

Examines comparative criminal justice: how different societies around the world practice criminal justice relative to practices in the United States. Multidisciplinary approach considers the economic, governmental, geographical, and social situations in the selected countries. [GD]

**CRJU 406 POLITICAL TERRORISM (3)**

An overview of the definitional and conceptual issues, types, history, causes and effects of oppositional political terrorism. The events of Sept. 11, including its major actors such as Osama bin Laden, al-Qaeda and the Taliban, are explored, including the reaction to this event by the United States and its allies over the past decade. The course then looks at the changes that have occurred since.

**CRJU 408 CRIME AND DELINQUENCY PREVENTION (3)**

A review of major crime and delinquency prevention strategies, including punitive, mechanical, and corrective prevention policies and programs. Selected prevention programs and policies are highlighted for in-depth evaluation.

**CRJU 420 SPEC PROBS IN POLICING (3)**

Issues and problems in policing a free society. The role and function of the police, the effects of - contemporary police practices, the exercise and control of police power. Examination of current problems and proposals for reform Prerequisite: CRJU 301

**CRJU 430 JUVENILE JUSTICE (3)**

An examination of youthful law violation and the juvenile justice system. The history, law, operations and agencies of juvenile justice are analyzed as are alternative approaches to defining, preventing and responding to youthful law violation.

**CRJU 432 CRIMINAL COURTS (3)**

An exploration of the multidisciplinary literature on the criminal courts in the United States, focusing on the social, political, and organizational contexts of the court, the court's case flow, and the various actors in the court's process. Contemporary issues are highlighted.

**CRJU 441 SPECIAL PROBLEMS IN CORRECTIONS (3)**

In-depth analysis of the issues, problems, and suggested reforms facing the contemporary role and practices of correctional facilities, including prisons, jails, and community corrections, e.g., probation and parole, and the role, functions, and difficulties of inmates and correctional officers. Prerequisite: CRJU 301

**CRJU 442 COMMUNITY CORRECTIONS (3)**

An examination of practices and problems of community corrections, including but not limited to probation, parole, halfway houses, and fines. Prerequisite: CRJU 301 or CRJU 341

**CRJU 445 THE INSIDE-OUT PRISON EXCHANGE PROGRAM (3)**

Inside-Out brings "outside" students -college undergraduates and graduates, particularly those pursuing careers in criminal justice and related fields together with "inside" students -incarcerated men and women -to study as peers behind prison walls. The semester-long course provides a transformative experience that allows the outside students to contextualize and rethink what they have learned in the classroom, gaining insights that will help them pursue the work of creating an effective, humane, restorative criminal justice system. prerequisites: none

**CRJU 451 MINORITIES, CRIME AND JUSTICE (3)**

An analysis of race, ethnicity and gender issues and how they impact the criminal justice system. An examination of how race, ethnicity, and gender issues revolve around questions associated with evidence of disparity, disproportionality and discrimination within the criminal justice system.

**CRJU 454 CRIMINAL BEHAVIOR (3)**

An examination of selected types of crime or criminal behavior patterns, such as white collar crime, violent crime, organized crime, drugs and crime, or age and crime. The topic studied appears in the Class Schedule. CRJU 454 may be repeated for credit when the topic changes. Prerequisite: CRJU 301

**CRJU 456 DRUGS AND CRIME (3)**

An examination of various topics and issues relating drugs and crime in the United States. This course explores social, legal, medical, and political factors, as well as changes in attitudes that contribute to drug use and policy. Prominent drugs-crime issues and projections for the future are included.

**CRJU 464 CRIMINAL JUSTICE ISSUES (3)**

An examination of a selected topic or issue, such as women and criminal justice, private security, criminal justice legislation, or ethical issues. The topic studied will appear in the Schedule of Classes. CRJU 464 may be repeated for credit when the topic changes.

**CRJU 485 ADVANCED CRIMINAL JUSTICE STUDIES (3)**

The senior level capstone experience. The focus is multi-disciplinary, and the emphasis is on the - integration and application of theory, research methods, and statistics. The problems of data gathering

and reporting, and relationships of theory, research, and practice in the field are addressed.

Prerequisites: CRJU 300, 301, 302, 306, and MATH 115. [CAP]

**CRJU 490 CRIMINAL JUSTICE INTERNSHIP (3)**

A practicum designed to broaden the educational experience of students through appropriate observational and work assignments with criminal justice agencies. Correlation of theoretical knowledge with practice emphasized. Prerequisites: CRJU 300, CRJU 301, CRJU 302, CRJU 306, and consent of instructor.

**CRJU 493 HONORS SEMINAR (3)**

An advanced interdisciplinary seminar that focuses on important books and issues, encourages independent thinking, clear presentation, and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. Prerequisites: 3.3 GPA and permission of the Honors Director.

**CRJU 494 HONORS PROJECT (3 - 6)**

Directed individual instruction in an advanced project of the student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a CS grade. Prerequisite: Honors standing, a 3.3 gpa. and permission of both the Honors Program Director and the faculty director.

**CRJU 498 DIRECTED INDEPENDENT STUDIES (1 - 3)**

Designed to provide credit for a student who wants to pursue independent work under the supervision of a staff member. Prerequisite: Consent of the instructor. Eligible for Continuing Studies (CS) grade.

**CRJU 499 SENIOR THESIS (3 - 6)**

No course description available.

**CRJU 501 PROFESSIONAL SKILLS IN CRIMINAL JUSTICE (3)**

Focuses on professional skills that will prepare students for graduate-level coursework and for future employment. Includes navigating criminal justice databases, interpreting empirical research, writing in a technical style, creating an effective PowerPoint document and strengthening oral presentation skills. Relies on a combination of group and individual exercises in both traditional lecture format and hands-on workshops to address each skill set. Pass/fail grading; to earn a passing grade, students must earn a B or better in this course.

**CRJU 600 ETHICAL ISSUE IN CRIMINAL JUSTICE (3)**

Examines ethical and moral values and professional responsibilities and decision-making as they pertain to the criminal justice system. Recognize characteristics of an ethical system and ethical frameworks for various criminal justice organizations. Explores ethical implications of discretionary power and various policy issues. Analyzes ethical dilemmas and ethical conduct versus misconduct.

**CRJU 601 CRIME AND POLICY DEVELOPMENT (3)**

Addresses the issue of how crime is measured in the United States and discusses why certain crimes capture the attention of lawmakers and the public more than do others. Examines why lawmakers have adopted certain responses to address crime and critically evaluates whether such strategies are effective in reducing crimes. Students research best practices within the field and are introduced to different analytical techniques to evaluate quantitative crime data. Prerequisites: None

**CRJU 602 RESEARCH TECHNIQUES IN CRIMINAL JUSTICE (3)**

Provides knowledge of and experience with the methods used in studying social science problems. Emphasis is on research, designs and instruments and policy implications. Critical and analytical skills are developed for use in future research and proposal writing. This course is a prerequisite for CRJU 603.

**CRJU 603 CRIMINAL JUSTICE STATISTICS (3)**



Introduces students to the relevance and importance of statistics in studying criminal justice problems. Explores different types of data, data-management techniques and different statistical methods to aid in the preparation of agency and formal research reports. Required for all criminal justice students.

**CRJU 604 RESEARCH ANALYSIS FOR CRIMINAL JUSTICE (3)**

Methods and techniques of research and research design, conducting and assessing research in criminal justice agency management environment; translation of research findings to policy; informational resources readily available to the agency manager. Designed to prepare students to gather decision-relevant information.

**CRJU 605 GRADUATE INTERNSHIP (3)**

Students will work 120 hours in a selected agency, institution or office within the criminal justice field, and will complete classroom work that focuses on career development and management skills. Required of all students. ( Note: Students who are currently working in the criminal justice field may be waived from this course at the discretion of the program director. Students who are waived must then complete an extra elective.) Prerequisite: Permission of program director.

**CRJU 606 CONTEMPORARY CRIMINAL COURT ISSUES (3)**

In-depth analysis of selected current issues pertaining to criminal court systems. Focuses on the current research literature and considers the operational consequences of alternative responses to the issues discussed.

**CRJU 610 ADMINISTRATION OF JUSTICE (3)**

Analysis of the major conceptions of justice and the ways these conceptions affect the manner in which social and legal systems are constituted. Examines theoretical perspectives with a view to understanding the relationships between various institutions and the administration of justice. Presents a comparative and historical focus on local, national and international systems of justice.

**CRJU 611 CONTEMPORARY ISSUES IN CORRECTIONS (3)**

In-depth analysis of the contemporary structure of the correctional system in the United States. Evaluates the system's issues in managing and supervising a growing offender population. Explores the latest research on best practice for institutional and community correctional programming.

**CRJU 615 INSIDE-OUT PRISON EXCHANGE PROGRAM (3)**

Inside-Out brings "outside" students college undergraduates and graduates, particularly those pursuing careers in criminal justice and related fields -together with "inside" students -incarcerated men and women -to study as peers behind prison walls. The semester-long course provides a transformative experience that allows the outside students to contextualize and rethink what they have learned in the classroom, gaining insights that will help them pursue the work of creating an effective, humane, restorative criminal justice system.

**CRJU 620 MANAGEMENT AND SUPERVISION IN CRIMINAL JUSTICE (3)**

Examines the foundational concepts of management and supervision as applied in criminal justice organizations. Explores organization and policy planning, budgeting, forecasting, human resources, and policy implementation. Emphasis is placed on issues relating to effective management and supervision in criminal justice. Topics covered include managing budgets and strategies on project management, supervising and managing personnel and staff development, setting clear performance goals, and building internal and external partnerships and community relationships to support the mission of an organization.

**CRJU 626 PROFESSIONAL COMMUNICATIONS IN CRIMINAL JUSTICE (3)**

Examines strategies and techniques used to obtain information in a variety of situations, to differentiate between interview and interrogation, to interact with diverse populations, to communicate with the media and to analyze information for consideration as evidence. Explores how the use of appropriate communications techniques and procedures leads to effective leadership, management and supervision within the criminal justice system. prerequisite: none

**CRJU 631 CONTEMPORARY ISSUES IN POLICING (3)**

Examines the social and political contexts of policing in contemporary society and evaluates current issues law enforcement faces when dealing with crime control, prevention, and maintenance of order. Explores the latest research on the effect of police policies, programs and practices.

**CRJU 632 POLICING SPECIAL POPULATIONS (3)**

Examines the research literature related to the special populations and groups of people that the police organization is mandated to manage based on statutory law, operating policies and procedures, and tradition and custom. Helps students understand how and why police intervene in the way that they do with some subgroups within the broader population.

**CRJU 633 RACE/ETHNICITY AND GENDER ISSUES IN CRIMINAL JUSTICE (3)**

Examines the research literature related to the impact of race/ethnicity and gender issues on the delivery of services within the Criminal Justice system. Analyzes how an offender or victim's race/ethnicity or gender may directly or indirectly influence decision-making at every point of the justice process, and explores the specific challenges the system faces in effectively addressing the needs of diverse populations.

**CRJU 635 CONTEMPORARY ISSUES IN JUVENILE DELINQUENCY (3)**

Discusses the role of demographics, developmental issues, family, school, peers and individual roles in youth behavior. Analyzes the major studies and theoretical foundations of juvenile delinquency and identifies and analyzes the current solutions implemented at both system and community levels. Reviews best practices in the control and prevention of juvenile delinquency.

**CRJU 636 INFORMATION AND TECHNOLOGY IN CRIMINAL JUSTICE (3)**

Explores how information is developed and processed into data informed decision making and policy. Analyze how to translate data information into knowledge. Presents a variety of criminal justice data information sources to provide an understanding of how data outcomes drive decision-making in the criminal justice system. Engage in more informed strategic and tactical planning and decision making using data systems, data management and data analysis techniques. prerequisite: none

**CRJU 640 MANAGING POLICE ORGANIZATIONS (3)**

Application of managerial and administrative practices to police agencies. Emphasis on executive processes, including planning, decision-making, implementation and evaluation, structuring discretion, providing leadership and dealing with corruption and other abuses. An examination of the role of the police administrator in the community and the governmental structure.

**CRJU 642 MANAGING CORRECTIONAL ORGANIZATIONS (3)**

Application of managerial and administrative practices to correctional agencies, focusing on the particular problems encountered in managing such agencies. Emphasis is on executive processes, including planning, decision-making, implementation and evaluation. Problems specific to secure facilities, probation, parole and community corrections are considered.

**CRJU 666 POLITICS, LEGISLATION AND THE MEDIA IN CRIMINAL JUSTICE (3)**

Examines the influence and process of politics on the criminal justice system, the legislative process and how legislation is enacted, and general policy-making procedures. Includes analysis of the evolution of a crime problem and how it transforms into law, policy and practice and how politics and the media influence perceptions and reactions to criminal behavior that may lead to successful legislative outcomes. Explores the design and implementation of future forecasting models, guided by law and policy, specific to the criminal justice process and offers a problem-oriented approach to effective lobbying and utilization of media resources in policy-making. prerequisite: none.

**CRJU 676 SYSTEMS AND APPLICATIONS IN CRIMINAL JUSTICE (3)**

Students diagnose and analyze real-world crime-related issues and problems in the criminal justice system. Examines decision-making techniques used in time-sensitive situations and crisis management. Offers a problem-oriented approach to effective leadership and management within the criminal justice system. prerequisite: none.

**CRJU 680 FOUNDATIONS & IMPACT OF TRAUMA (3)**

Provides the foundation for understanding trauma and post-traumatic stress disorder in adults and children; examines the impact of trauma as well as describing the short and long term effects of trauma; and explains how past trauma can lead to ongoing problem behaviors. Develops skills and increases awareness of the necessary core competencies in trauma-informed services and administration. Also, provides an understanding of the impact and manifestation of vicarious traumatization and compassion fatigue on professionals. prerequisite: none

### **CRJU 682 TRAUMA INFORMED ORGANIZATIONS (3)**

Provides an understanding of how the impact of trauma can manifest behaviorally and may be elicited by normal interactions found within criminal justice system settings, and describes how to use trauma informed responses to reduce the intensity of difficult or dangerous situations. Explains how trauma informed criminal justice system responses can help to avoid re-traumatizing individuals, increase safety, and reduce future involvement in the system. Explains the benefits of capacity building among partners cross systems to link individuals to trauma-informed services and treatment as a means to increase an individual's ability to recover. prerequisite: none

### **CRJU 684 RESPONDING TO TRAUMA (3)**

Provides an understanding of trauma symptoms and the needs of trauma survivors; describes approaches for engaging individuals with histories of trauma; describes client centered communication and interviewing skills for working with trauma; examines tools to identify and screen for trauma and mental health disorders to facilitate early intervention and treatment referrals. Increases knowledge of trauma specific services, community resources, and self-care methods for reducing symptoms of vicarious trauma and burn-out. prerequisite: none

### **CRJU 685 ISSUES IN FORENSICS INVESTIGATION (3)**

Explores investigative theory and issues of forensic investigations. Examines the use of forensic science to various statutory offenses, solving crimes, and legal proceedings. Presents current issues in forensic investigations and analyzes its impact on the processing of criminal law and administration of justice. Chain of command in evidence preservation and the validity of forensic evidence in criminal proceedings are emphasized throughout the course. prerequisites: none

### **CRJU 686 TRAUMA INTERVENTIONS AND BEST PRACTICES (3)**

Examines evidence-based trauma interventions and emerging areas of best practices; describes the different models and techniques currently used with different populations and discusses their effectiveness. Examines how culture and ethnicity influence the experience and effects the treatment of trauma. prerequisite: none

### **CRJU 688 SUBSTANCE ABUSE, MENTAL HEALTH, AND THE CRIMINAL JUSTICE SYSTEM (3)**

The course focuses on how and why individuals with mental health (MH) and/or substance abuse (SA) problems become involved in the criminal justice system, and on how the criminal justice and public health systems respond to that involvement. Topics include law enforcement responses, court-based strategies, mental health/substance abuse problems and corrections, community supervision of individuals with mental illness/substance abuse problems, and unique challenges associated with veteran, female, and juvenile populations.

### **CRJU 702 CONTEMPORARY ISSUES FOR VICTIMS OF CRIME (3)**

Analysis of crime and social reaction from the point of view of the offended. Focuses on the relatively recent emphasis on how crime creates problems for those victimized by criminals and analysis of whole populations victimized by persons known to them. Includes an analysis of the idea of restitution.

### **CRJU 703 SEMINAR IN CRIMINAL JUSTICE (3)**

Seminar devoted to a particular topic related to research, theory and/or applications in criminal justice. Sample topics include qualitative research in criminal justice, community crime prevention and juvenile justice history. May be repeated for credit when the topic changes. no prerequisite unless listed in schedule of classes

### **CRJU 704 BEST PRACTICES IN VICTIM SERVICES (3)**

Introduces the emerging field of victim services in context with the underlying legal structure of crime victims' rights. The impact of the legal structure of crime victims' rights has influenced both formal and informal responses to crime victim's needs. A thorough analysis of the system of services, both with the criminal justice system and through other allied professions, is examined. Best practices in victim assistance programs-- from law enforcement through the courts and corrections systems to financial remedies, community- based advocacy, and treatment and support services- are also examined.

Prerequisite: None

### **CRJU 705 A DIALOGUE WITH A VICTIM (3)**

Provides a critical and in-depth review of some of the communication barriers criminal justice personnel encounter when interacting with victims and witnesses in the course of an investigation. Critically examines competing narratives (e.g., individual, professional, personal, cultural) often present when interviewing a victim/witness and how these narratives can impede communication flow and the investigative process. Explore strategies to reduce these obstacles. Prerequisite: None.

### **CRJU 707 COMMUNITY CORRECTIONS (3)**

Analysis of the types, procedures, problems, theories and evaluation of supervision of adults and juveniles in the various forms of community-based corrections. Students will be responsible for understanding classic and contemporary research on this subject matter.

### **CRJU 708 LEADERSHIP DEVELOPMENT IN CRIMINAL JUSTICE (3)**

Integrates evolving perspectives in leadership, principles of criminal justice administration, and relevant technological innovations and applications. Studies the influence of leadership as it relates to criminal justice organizational culture, governing bodies, strategic planning, succession planning, diversity and globalization. Prerequisite: None.

### **CRJU 710 ADVANCED CRIMINOLOGY: THEORY TO PRACTICE (3)**

Discusses classical and contemporary theories of criminal behavior and investigates how political, economic and social factors can cause paradigmatic shifts in how theory is both developed and applied in the real world. Students explore how theories are evaluated empirically and learn to develop and critique contemporary crime prevention and control policies by applying different theoretical models.

### **CRJU 712 COMPARATIVE CRIMINAL JUSTICE (3)**

Examines comparative criminal justice: how different societies around the world practice criminal justice relative to practices in the United States. Multidisciplinary approach considers the economic, governmental, geographical, and social situations in the selected countries.

### **CRJU 713 SEMINAR IN JUDICIAL ADMINISTRATION (3)**

Evaluation of management problems relating to courts and the role of court functions and personnel.

### **CRJU 715 STUDIES/READING IN CRIMINAL JUSTICE (1 - 3)**

Designed to give the graduate student academic flexibility. Eligible for continuing studies grades.

prerequisite: permission of program director

### **CRJU 718 LEADERSHIP IN PUBLIC SAFETY ORGANIZATIONS (3)**

As the issues facing today's public safety organizations become more diverse, so too does complexity of their missions. Leadership in an organizational context requires knowledge of the organization's functioning, its culture, and the situations in which decisions are shaped and made individually or collectively. This course provides a historical and contemporary overview of the relationship of leadership and organizations relevant to public safety. Students examine the process of organizational leadership through the lens of complexity leadership theory, and identify components of that process within public safety organizations that can develop them into more adaptive systems. Students will examine real public safety leadership and organizational issues and problems from a bureaucratic organizational perspective, and discover way to resolve them while applying theory to practical situations. This course allows students to identify and evaluate contemporary leadership issues in today's complex public safety system.

### **CRJU 722 STRATEGIC AND CRISIS MANAGEMENT IN CRIMINAL JUSTICE ORGANIZATIONS (3)**

Examines strategic and crisis management methodologies and tactics employed in criminal justice organizations. Provides foundational skills and financial literacy for managing resources and personnel while managing competing priorities. Identifies conflict management and resolution strategies in justice leadership. Explores the cultural, ethical, social and political effects on organizational management. Discusses the nature and impact of external forces on criminal justice management and leadership and an understanding of the need for organizational change. Prerequisites: none

### **CRJU 725 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE AND SYSTEMS (3)**

Provides students with foundational knowledge in both geographic information science and Systems that will allow them to better understand and think critically about the role of "place and space" and to engage in the routine use of basic GIS technology in their studies and workplace. Students will learn to use ESRI's ArcGIS to create maps and analyze geo-data and relationships, and to present their results to others. prerequisites: none.

### **CRJU 730 CONTEMPORARY ISSUES IN CRIMINAL JUSTICE (3)**

Examines contemporary issues pertaining to the criminal justice system. Explores the newest research and its impact on laws, policy, and practices. Evaluates the current issues in leading and managing the various complex agencies within the criminal justice system. Prerequisites: none

### **CRJU 742 MANAGING CORREC ORG (3)**

No course description available.

### **CRJU 777 CAPSTONE IN CRIMINAL JUSTICE (3)**

Capstone course offers students an opportunity to demonstrate their mastery of knowledge in the fields of criminology and criminal justice, gained while working toward completion of the graduate degree. Course is designed to be an integrative experience in which students combine their knowledge of criminological theory and of justice policy with practical skills to develop a comprehensive approach to planned change. Prerequisite: CRJU 601, 602, 603, 610, 708 and 710.

### **CRJU 798 CONTINUOUS ENROLLMENT (1)**

Provides continuing faculty direction, academic support services and enrollment services for students who have completed all course requirements for the degree but have not completed a thesis or final project. Students continue the independent work leading to finishing the thesis or final project that is significantly under way. Course may be repeated for credit as needed. Eligible for continuing studies (CS) grade; otherwise grading is pass/fail. prerequisite: completion of all course requirements for degree program

### **CRJU 799 THESIS (3 - 6)**

Supervised preparation of an original work displaying research and writing skills. 6 hours, plus defense. Students may register for 3 hours in each of two semesters or 6 hours in one semester. Eligible for continuing studies (CS) grade; otherwise grading is pass/fail. prerequisite: permission of program director

## **CSCE: Community Studies/Civic Engagement**

### **CSCE 100 URBAN SOLUTIONS (3)**

Provides an introduction to the field of urban studies and to the practices of studying cities and metropolitan areas. Students are exposed to a variety of current and historic urban challenges as well as policy solutions. The course exposes students to the complexity of life in metropolitan regions, using the Baltimore area and other cities nationally and internationally as case studies. [SOSC] [QQT] [GIK] [CTE] [SBS]

### **CSCE 200 UNDERSTANDING COMMUNITY (3)**

Allows students to explore basic concepts of community: a group's history and change over time, the lines that divide communities, the physical movement of groups, the responsibilities of individuals within the community and the role community plays in social control. Students begin to master the skills of

selection and synthesis as they use historical documents, census data, community mapping, field observations, nonfiction and fiction to make observations about groups and compare their findings to the ways groups are depicted by outsiders. [SOSC] [QQT] [GIK] [CTE] [SBS]

### **CSCE 297 TOPICS IN COMMUNITY STUDIES (1 - 3)**

Exploration of topics in Community Studies or Civic Engagement. the actual topic of the course will appear in the schedule of classes. Prerequisite: Depends on course topic and level of difficulty.

### **CSCE 300 COMMUNITY CASE STUDIES (3)**

Focuses on reading the core philosophy and history of community studies and applying the abstract concepts to a number of case studies of successful problem-solving organizations. Students examine one organization in depth, analyze the issues the organization addresses, identify the assets it draws upon and evaluate the solutions it develops.

### **CSCE 301 INTRODUCTION TO NONPROFIT LEADERSHIP (3)**

Introduces students to personal and professional competencies relevant to careers in nonprofit organizations. Special emphasis is placed on individual and community development as the pivotal functions of nonprofit organizations and on collaboration as the central mode of public problem-solving.

### **CSCE 302 FUNDRAISING AND GRANT WRITING (3)**

Provides students with a thorough grounding in the principles and practices of fundraising and grant proposal development. The course is structured to mirror the process of fundraising management and by the course's conclusion, students will have developed a fundraising plan or a grant proposal for their own nonprofit organization or a case study of the organization. The course considers planning frameworks and a variety of conceptual tools exploring donor behaviors ( the underlying psychology and sociology) and each major form of fundraising. The course concludes with an examination of the critical managerial and sectoral issues impacting fundraising functions, such as campaign integration, benchmarking of performance, and public trust and confidence.

### **CSCE 306 LEADERSHIP FOR SOCIAL CHANGE (3)**

Introduces students to leadership theory and to the history and concepts of community organizing for social change. Encourages careful analysis of responsibilities and commitment in the context of leadership for the common good and for purposeful change. Students explore how to create change in society through everyday acts of leadership and by learning about their own leadership styles. Provides opportunities for practical application, documentation of leadership styles, and reflection on individual responsibility for and potential in leadership roles. Prerequisite: None.

### **CSCE 311 SOCIAL AWARENESS AND ETHICAL RESPONSIBILITY (3)**

Focuses on the relationships among ethics, public policy and business enterprise. Designed to help participants think globally about diversity and civic engagement, this course continues students' preparation for leadership position in a global society. Focuses on improving personal leadership skills and on emphasizing the importance of leading consistently with the highest ethical principles and values. Prerequisite: None

### **CSCE 315 COMMUNITY ORGANIZATIONS IN A DIGITAL WORLD (3)**

Examines digital and online efforts of community organizations to build community leadership and civic engagement. Explores the ways in which information technologies have transformed and are transforming community organizations and how these technologies affect a range of social, political and economic issues from individual to organizational and societal levels. Focuses on how technological applications may provide more effective and efficient pathways for community organizations to communicate with their stakeholders and to reach their strategic goals, which include the use of social media. Prerequisite: None.

### **CSCE 400 NONPROFIT MANAGEMENT (3)**

Nonprofit organizations are key to the functioning of civil society. The United States has one of the world's most vibrant nonprofit communities. In this practical skills course, students examine how to carry out the responsibilities of organizing and managing a nonprofit, with focus on organizations framed under

501(c)(3) of the Internal Revenue Code. Students explore effective mission, incorporation and vision statements; board and staff roles and relationships; ethics; budgets and fundraising; and maintaining nonprofit status. This course helps students meet a number of American Humanics competency requirements. prerequisite: CSCE 301 or permission of the CSCE program director

### **CSCE 401 ECONOMIC AND COMMUNITY DEVELOPMENT (3)**

Using theory and practice, this course emphasizes the programs and policies that enhance the economic vitality of low- and moderate-income communities and organizations to provide an understanding of the basis for both economic and community development along with a basic set of practical tools to enable the student to work in the field of community development. This course features a service-learning component.

### **CSCE 412 COMMUNITY LEADERSHIP AND DECISION-MAKING (3)**

Designed to provide students with the competencies necessary to be an effective community leader and decision-maker in the context of community planning, relationship building across networks and social organizing. Students are exposed to public decision-making from local to national government. Examines the primary skills needed for effective engagement in political and civic discussion, deliberation, advocacy and action. Prerequisite: None.

### **CSCE 481 COMMUNITY ENGAGEMENT EXPERIENCE (3)**

Provides students with the opportunity to become involved in the work of a community organization. The goal of the course is to provide students with a community engagement experience for up to 120 hours. Writing assignments and reflection activities required. Prerequisite: CSCE 200, 300, and 306.

### **CSCE 482 CAPSTONE SEMINAR (3)**

Focuses on the integration of concepts and ideas drawn from each of the core course requirements. Each student develops an original capstone project based on a real world problem/ solution in collaboration with a community organization. The capstone project will be designed in consultation with the CSCE program director. Permission of program director required. Prereq: CSCE 200, 300, 301, 302, 306, 311, 315, 400, 412, and 481.

### **CSCE 492 INDEPENDENT STUDY (3)**

Provides students with the opportunity to pursue a research topic or community service project in depth over the course of a semester. An interested student submits a proposal to a faculty member who agrees to be the adviser for the study. The faculty member and the student negotiate the terms of study and the requirements for the final product. prerequisite: permission of the program director

### **CSCE 493 HONORS SEMINAR (3)**

An advanced interdisciplinary seminar that focuses on important books and issues, encourages independent thinking, clear presentation, and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. Prerequisites: 3.5 GPA and permission of the Honors Director.

### **CSCE 494 HONORS PROJECT (3 - 6)**

Directed individual instruction in an advanced project of the student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a continuing studies grade. prerequisites: 3.3 3.5 GPA and permission of both the Denit Honors Program director and the faculty director

### **CSCE 497 SPECIAL TOPICS IN COMMUNITY STUDIES AND CIVIL ENGAGEMENT (3)**

An examination of a selected topic or issue related to the research interests of CSCE faculty or a collaboration with a local nonprofit in a one-time community project. Course may be repeated for credit when topic changes.

## **CWPA: Creative Writing/Publishing Arts**

### **CWPA 610 INTRODUCTION TO PUBLICATIONS SOFTWARE (3)**

An introduction to graphics and visual communication principles. This course covers the manipulation of graphic form to convey meaning, strategies for idea generation and development of unique concepts, and the designer's role as visual storyteller. Students explore fundamental design principles through digital visual communication projects.

### **CWPA 620 CREATIVITY: WAYS OF SEEING (3)**

Exploration of the creative process, relationships between written and visual expression, sources of inspiration and forms of publishing. Through a series of weekly projects, design experiments and innovative models, students develop new ways of seeing and deepen their understanding of creative expression. Team-taught by a creative writer and a book artist or graphic designer, the course offers a collaborative setting that acknowledges important connections between form and function, materials and subject, and tradition and innovation. Lab fee required.

### **CWPA 622 FICTION WORKSHOP (3)**

Exploration of the uses and values of narrative. Combines practice in writing narratives with analysis of the nature and methods of narrative art.

### **CWPA 623 POETRY WORKSHOP (3)**

An opportunity to write poetry in a workshop setting. Students write a new poem every week and experiment with a variety of styles, from traditional forms to free verse and spoken word. Students read and study poems by contemporary authors and critique one another's work in order to develop their sense of craft.

### **CWPA 626 LITERARY NONFICTION WORKSHOP (3)**

Experimentation in writing various kinds of nonfiction, such as personal essays, travel essays, profiles, culture criticism, memoirs and essay reviews. Focus is on the use of literary techniques within the context of the form's traditions and contemporary innovations.

### **CWPA 627 MEMOIR WORKSHOP (3)**

An opportunity to write a memoir. Students read and study memoirs by contemporary authors to become more familiar with the many possibilities available to writers working in this form. Focus is on issues relevant to the writing of memoir, including craft and techniques, memory and truth-telling, and interior and exterior significance.

### **CWPA 628 SCREENWRITING (3)**

Students analyze and write entertainment-oriented scripts for television and film. Emphasizes plot and character development, dialogue, writing for the eye and the ear and following industry script and program conventions.

### **CWPA 630 SCREENWRITING I (3)**

In this introductory course, students analyze and write short entertainment-oriented scripts for television and film. Emphasizes the art of the scene, also plot and character development, dialogue, writing for the eye and the ear and following industry script and program conventions.

### **CWPA 631 SCREENWRITING II (3)**

In this intermediate course, students draft a full-bodied script treatment and then write an original three-act, entertainment-oriented script for television or film. Advanced discussion of plot and character development, dialogue. Emphasizes big-picture narrative structure. Introduces script revision skills. Presents strategies for script submission.

### **CWPA 651 TYPE AND DESIGN FOR CREATIVE WRITERS (3)**

Exploration of the fundamentals of typographic form and function with specific application to literary publishing. The course examines type design and family classification of type and their characteristics as



well as organization of visual space and other basic design principles. Lab fee required. prerequisite: knowledge of Adobe InDesign and Photoshop

**CWPA 720 ADVANCED WRITING WORKSHOP (3)**

Encourages the thoughtful analysis of craft and language in published works to help students develop as writers. Students see their manuscripts through the drafting process, from idea to revision. Through in-person and online workshops, students provide critical feedback on the fiction, poetry and creative nonfiction of their peers. Student establish a set of creative goals for themselves, propose a research project based on those goals, and present the results of their project to their classmates.

**CWPA 752 CREATIVE WRITING: SPECIAL TOPICS (3)**

Intensive exploration of topics in creative writing of special interest to faculty and students. Content varies according to specific interests and trends in creative writing. Possible topics include narrative poetry, gothic or romance novels and stories, detective and mystery fiction and marketing small press books. Specific topic is listed in the schedule of classes. Course may be repeated for credit when topic changes. Lab fee may be required.

**CWPA 753 PUBLISHING ARTS: SPECIAL TOPICS (3) (3)**

Intensive exploration of topics in print publishing, electronic publishing and book arts of special interest to faculty and students. Content varies according to specific interests and trends in publishing arts. Specific topic is listed in the schedule of classes. Course may be repeated for credit when topic changes. Lab fee may be required.

**CWPA 761 TEACHING WRITING (3)**

This course will teach students how to teach writing. It will focus on pedagogical strategies, course planning, and classroom management, and will introduce students to the theory and scholarly debates surrounding these topics. The course will accomplish its goals through readings, discussion, and applied and experiential learning. Prerequisite: None.

**CWPA 775 INTERNSHIP (3)**

Direct experience working in the field of creative writing. Internship opportunities include working for presses, literary agencies, publishers and literary arts organizations, as well as teaching. Eligible for continuing studies grade. May be repeated for credit if the internship is different. Prerequisite: Permission of program director

**CWPA 778 INDEPENDENT STUDY IN PUBLISHING ARTS (1 - 3)**

Production project in an area related to the M.F.A. in Creative Writing & Publishing Arts program. Topics vary with individual student interest. Lab fee required. prerequisite: permission of program director

**CWPA 779 INDEPENDENT STUDY IN CREATIVE WRITING (1 - 3)**

Research or writing in an area related to the M.F.A. in Creative Writing & Publishing Arts program. Topics vary with individual student interest. prerequisite: permission of program director

**CWPA 780 BOOK ARTS (3)**

Hands-on course in which students produce a variety of small literary publications. They serve as editors and designers as well as writers. Also introduces students to book arts, teaching book structure, construction and binding. Lab fee required.

**CWPA 781 ELECTRONIC PUBLISHING (3)**

Exploration of ways for creative writers to write and publish on the Web. Students analyze electronic literary publications, write and produce their own literary Web publications and gain an understanding of the opportunities available to them in electronic publishing. Lab fee required.

**CWPA 782 CREATING THE JOURNAL (3)**

Exploration of processes involved in creating a print journal, from choosing manuscripts to designing and publishing. As a result of participating in the editing process, students gain insight into their own writing, develop their own aesthetic and see how editors make selections. Lab fee required.

**CWPA 783 PRINT PUBLISHING (3)**

How to place creative writing for publication. Topics range from writing a cover letter to finding agents to handling rejection. Students work independently, analyze current print and online publications and develop an extensive and annotated list of appropriate places for their work to appear. Before manuscripts are submitted for publication, they are critiqued by the class.

**CWPA 786 EXPERIMENTAL FORMS (3)**

Examination of selected works that challenge our conventional assumptions about language and form. Emphasis on new forms that re-imagine traditional genres of writing and blur the boundaries between poetry, fiction and nonfiction. Students explore possibilities for appropriating and subverting conventional uses of language as well as mixing and creating new forms in their own writing.

**CWPA 787 SEMINAR IN LITERATURE AND WRITING (3)**

Combining traditional scholarship and creative writing, the course begins with a close study of a seminal literary work or group of works, to be chosen by the instructor. Students explore the nature of these texts per se and how they relate to both current and past literature and to the students' own work. A final written project integrates original research and the creative interpretation of the ideas developed from reading and discussion.

**CWPA 788 INTERNATIONAL WRITING WORKSHOP (3)**

Focuses on reading the work of writers from around the world, most of it in translation. At the same time, students will explore new subjects and approaches to their own writing. Prerequisite: None

**CWPA 796 MFA THESIS I (3)**

Opportunity to focus intensively on creative writing in a particular genre. Students may revise and edit previously written work as well as create new work, aimed at publication. In addition to expanding and refining their own work, students critique each other's work. A substantial essay focusing on another writer's work or on a topic related to their interests and concerns as writers is also required. prerequisite: two writing workshops in the same genre and permission of the program director

**CWPA 797 THESIS II: WRITING (3)**

Second semester of two-semester thesis sequence. Entering with a completed or nearly completed manuscript written while in the program, students revise and complete their manuscript and prepare it for publication. In addition, they act as peer advisers to one another and are responsible for providing in-depth critiques of each other's work. Prerequisite: All other required courses for the M.F.A. in Creative Writing & Publishing Arts except CWPA 795 seminar in Creative Writing & Publishing Arts, which is taken concurrently, and permission of the program director.

**CWPA 798 THESIS III: DESIGN (3)**

Capstone course for the M.F.A. in Creative Writing & Publishing Arts. Entering the course with a completed or nearly completed manuscript written while in the program, students design and produce a publication consisting of their own original work. In a seminar setting, they act as peer advisers to one another and are responsible for providing in-depth critiques of each other's work. The course revisits and re-examines concepts introduced in earlier courses. prerequisite: all other required courses for the M.F.A. in Creative Writing & Publishing Arts and permission of the program director

## **CYFI: Cyber Forensics**

**CYFI 305 FUNDAMENTALS OF CYBERSECURITY (3)**

Provides a basic understanding of cybersecurity and its relationship with networks and operating systems. Students will be able to recognize threats to an organization and to infrastructure. Examines the frameworks, roles, and competencies involved with information security. The fundamentals of cybersecurity that will be examined include network and security concepts, attacker techniques, data security, system and applications security. Lab Fees: \$65.

**CYFI 308 CYBER CRIME (3)**

This course examines both the traditional and contemporary forms of cybercrime, including hacking, insider threat, cyberbullying, hacktivism, and cyberterrorism. In addition, this course will apply a variety of sociological, psychological, and criminological theories to explore the cause and motivation of offenders that has led to the significant rise in cybercrimes.

### **CYFI 310 CYBER CRIME AND THE LAW (3)**

Learn concepts and techniques related to data analytics and analysis techniques to discover forensic evidence. The course teaches students to apply basic statistical, machine learning, and artificial intelligence tools to describe, visualize, and analyze forensic data collected from computing devices. The class focuses on detecting anomalies on collected forensic log files.

### **CYFI 315 OPERATING SYSTEM FORENSICS (3)**

Explores the roles of an operating system, its basic functions, and the services provided by the operating system. Learn the forensic analysis of the three major operating systems (Windows, Mac OS X, and Linux) in the real world. Topics include disk acquisition and analysis, file system forensic, memory acquisition and analysis, timeline investigation, as well as tracking and analyzing operating system configuration settings. \$65 course fee.

### **CYFI 330 MOBILE FORENSICS (3)**

Provides a framework for learning the latest developments in wireless and mobile communications; the characteristics and operations of wireless network technologies. Examines wireless network principles, protocols, and applications and provides basic knowledge necessary to complete a logical acquisition of digital evidence from mobile devices. Demonstrates the use of wireless networks and mobile forensics investigative techniques and tools. Explains mobile forensics procedures and principles, related legal issues, mobile platform internals, bypassing passcode, rooting, logical and physical acquisition, data recovery and analysis. Some of the topics covered will include hand-on extraction using iOS, Blackberry and Android platforms. Lab Fees: \$65.

### **CYFI 345 NETWORK FORENSICS (3)**

Explores the methodology and procedures associated with analyzing and mitigating threats in a network environment; identification of potential risks, inappropriate software activity, and security breaches. Examines the topologies, protocols, and applications required to conduct forensic analysis in networks. Other topics include an overview of the various types of VPNs and the utility of firewalls and limitations of firewalls. Explains network forensic principles, legal considerations, digital evidence controls, and documentation of forensic procedures. Laboratory exercises will reinforce practical applications of course instruction. Lab Fees: \$65.

### **CYFI 360 ADVANCED PYTHON FOR FORENSICS (3)**

Provides advanced elements of regular expressions in Python; explores the python working with databases, files, Unicode and text encoding, and object-oriented coding in Python as it relates to forensics. Examines how to test and debug Python codes. Describes Python language and constructs used to write script and complex programs using Python's OOP model. Python software will be used to perform diagnostics and investigations, and ways to visualize data. The course will teach students to use the Python libraries as an investigative tool. Lab Fees: \$65.

### **CYFI 375 FUNDAMENTALS OF CRYPTOGRAPHY (3)**

Introduces the historical and modern cryptography to ensure the confidentiality, integrity, and authenticity of data and communication. Study how cryptographic algorithms and protocols work and how to use them. Topics include symmetric cryptography, asymmetric cryptography, hash functions, as well as various attacks to cryptographic algorithms and protocols. Explores decryption techniques as applied to businesses and to government. Steganography is a process by which information is hidden within other media. Also presents the processes of hiding or encrypting data to inhibit a forensic analysis and of the detection and counter-resolution of hidden information. Lab Fees: \$65.

### **CYFI 390 ETHICAL HACKING (3)**

Learn how to apply knowledge of engineering to security evaluations, design and conduct security assessment experiments as well as analyze and interpret the resulting data. Learn various practice techniques for penetration testing and provide various methods of discovering ways of exploiting vulnerabilities to gain access to a system. Understand professional and ethical responsibility. Recognize the need for life-long learning in the quickly changing cybersecurity environment. Lab Fees: \$65. Prerequisites: FSCS 305, FSCS 310, and FSCS 360.

### **CYFI 415 FORENSIC INVESTIGATIONS (3)**

Examines the theory, best practices, and methodologies to conduct computer forensics investigations; it includes ethical issues, evidence collection and preservation, data presentation, and chain-of evidence procedures. Explore current tools and technologies used to analyze, acquire, and organize digital evidence. Case studies are used to illustrate successful and sometimes less successful investigations. An introduction to LAN investigation as well as PC and Mac Forensics will be included. Lab Fees: \$65. Prerequisites: FSCS Fundamentals of Cyber Security, FSCS 310 Cyber Crime and the Law.

### **CYFI 445 FORENSIC DATA ANALYSIS (3)**

Learn concepts and techniques related to data analytics and analysis techniques to discover forensic evidence. Applying basic statistical, machine learning, and artificial intelligence tools to describe, visualize, and analyze forensic data collected from computing devices. Focus on detecting anomalies on collected forensic log files. Lab Fees: \$65. Prerequisites: CYFI 305, 315, 345, 360, and 415

### **CYFI 485 MONEY LAUNDERING (3)**

An essential element of financial crimes is the ability to move assets in ways that resist detection. Explores frequently used techniques, reviews national and international laws and practices to prevent money laundering, and describes best practices to minimize the ability to use money laundering as part of financial crimes. Prerequisite: None.

### **CYFI 490 FORENSIC INCIDENT RESPONSE - CAPSTONE (3)**

Examines the methods, procedures, and policies necessary for a collaborative incident response team. Allows opportunity to review, analyze, and integrate what has been learned in each of the prerequisites courses. Students will learn how incident response teams organize, identify, and gather evidence using a number of real-world scenario cases related to various aspects of cyber forensics to complete a capstone project that demonstrate mastery of the culmination of the cyber forensics degree program. Laboratory fee required. Prerequisites: FSCS 305, 310, 315, 330, 345, 360, 375, and 390.

### **CYFI 496 INTERNSHIP IN CYBER FORENSICS (3)**

Provides a field experience to students in cyber forensics entities. This requirement is completed at the end of the program. Prerequisites: CYFI 305, 310, 315, 330, 345, 360, and 375. Eligible for continuing studies grade.

### **CYFI 600 LEGAL ISSUES IN HIGH TECHNOLOGY CRIME (3)**

Examines the general regulatory and statutory computer-related law, ethics, and policies associated with high technology crimes. Areas of major focus include legal issues facing the private, corporate, and governmental sectors, relative to the application of traditional search and seizure, chain of custody, and ethical considerations. Problem oriented course that focuses on criminal and civil issues in the law, including the interpretation and application of the holdings in various landmark cases, and the analyses of statutes to different criminal/civil fact patterns. Prerequisites - None

### **CYFI 605 INFORMATION RETRIEVAL : PAPER AND ELECTRONIC (3)**

Explore the fundamentals of data, information, computing technology, and information retrieval. Focuses on the understanding of computer hardware components, operating systems, and networks, as well as how raw data is associated with software and hardware. Lab fee required.

### **CYFI 610 IDENTIFYING ORGANIZATIONAL LIABILITIES AND CRIME (3)**

Examines the historical development and theory of potential liabilities, risks, and responsibilities of private, corporate, and governmental entities relative to cybercrime within various sectors of law, with

focus on applicable search protocols, physical security issues, due diligence, environmental, regulatory, and statutory concerns and requirements.

### **CYFI 620 FORENSIC INVESTIGATIVE TECHNIQUE I (3)**

Examines forensic investigative techniques as it relates to civil and criminal procedure. Explains technical skills in data collection, data acquisition, hard drive imaging, reconstruction of past events, collection and preservation of electronic evidence and consideration if search and seizure violates any constitutional rights. Analyzes storage media structures and content. Intended as an introduction to CYFI 720.

Prerequisite: CYFI 605. Lab fee required.

### **CYFI 625 INFORMATION SYSTEMS, THREATS, ATTACKS, AND DEFENSE STRATEGIES (3)**

Examines information systems and the threats from malicious activities that attempt to collect data from or control, disrupt, deny, or destroy information within a system and through external networks. Explores origins of such attacks and effective responses to various threat actors as part of pen testing and related processes. Explores auditing methodologies and quality assurance, control, and management requirements necessary for information systems, Introduces disaster recovery and business impact analysis as part of the required business policy and recovery processes. Lab fee required. Prerequisite: CYFI 605.

### **CYFI 630 INTRODUCTION TO CRYPTOGRAPHY (3)**

Provides a detailed synopsis to historical and modern cryptography. Examines fundamentals of cryptographic algorithms and protocols, including encryption, decryption, hashing, message authentication, digital signature, and key agreement protocols. Analyzes the differences between symmetric and asymmetric encryption. Prerequisite: CYFI 605. Lab fee required.

### **CYFI 700 MOBILE FORENSICS (3)**

Addresses both scientific methodologies and practical skills to extract digital evidence in a legal context. Examines mobile forensics investigation techniques on various phases of the mobile forensics process for both Android and iOS-based devices. Provides a hands-on approach to mobile forensics using industry and government-recognized guidelines and software, i.e., Encase and FTK. Lab fee required.

Prerequisite: CYFI 620

### **CYFI 720 FORENSIC INVESTIGATIVE TECHNIQUES II (3)**

A continuation of CYFI 620 that examines fundamental principles and hands-on practice of forensic investigations. Examines the use of networking techniques and tools for retrieval, recovery, authentication, and analysis of electronic data from file systems and memory. Explores practical approaches and investigation methods to retrieve evidence from network traffic, software application, source code, and compiled code. Prerequisite: CYFI 620. Lab fee required.

### **CYFI 725 COMPUTER AND DIGITAL FORENSICS (3)**

Examines fundamental principles and hands-on practice of computer and digital forensics. Examines the use of computer forensic theories, techniques, and tools for retrieval, recovery, authentication, and analysis of electronic data from file systems and memory with extensive use of command lines of Windows and Linux-based systems. Reconstructs computer usages that are associated with cybercrimes. Lab fee required. Prerequisite: CYFI 620

### **CYFI 750 CAPSTONE COURSE (3)**

Integrates and applies knowledge, theories, principles, skills and practical applications learned in Master of Science in Forensic Science - Cyber Investigations courses to actual cybercrime case scenarios. Lab fee required. Prerequisite: Successful completion of all core courses in the program and permission of program director.

## **DESN: Design**

### **DESN 501 INTRODUCTION TO WEB DEVELOPMENT (3)**

Introduction to the fundamentals of front-end Web design. Students learn how to write basic HTML and CSS. Emphasis on preparing media for Web use, HTML tags, CSS attribute and how the two languages work together to create functional and visual front-end Web design. Grading: pass/fail; credits do not count toward a UB graduate degree or certificate. Lab fee required.

**DESN 502 INTRODUCTION TO GRAPHIC DESIGN PRINCIPLES (3)**

Hands-on course for students with a limited background in graphic design. Emphasis on basic strategies for visual problem-solving and techniques for preparing comprehensive layouts. Pass/fail grading. Lab fee required.

**DESN 503 WORKSHOP IN WRITTEN COMMUNICATION (3)**

Practicum in the skills of writing and research. Instruction focuses on projects in the student's subject field. Emphasis on revising, proofreading, editing, adapting and translating for different media and audiences. Recommended for students in all graduate programs who wish additional work in writing, with permission of the graduate program director. Grading: credit/no credit or letter grade.

**DESN 505 SHORT COURSE IN WRITING (1)**

Intensive course meeting three hours per week for five weeks and focusing on a specialized aspect of professional writing. Content varies according to the concurrent interests of faculty and students. May be repeated for credit when the topic changes. Grading: credit/no credit or letter grade. Lab fee may be required.

**DESN 506 SHORT COURSE IN WRITING (1)**

Intensive course meeting three hours per week for five weeks and focusing on a specialized aspect of professional writing. Content varies according to the concurrent interests of faculty and students. May be repeated for credit when the topic changes. Grading: credit/no credit or letter grade. Lab fee may be required

**DESN 508 SHORT COURSE IN GRAPHICS (1)**

Intensive course meeting three hours per week for five weeks and focusing on a specialized aspect of graphic design or graphic production. Content varies according to the concurrent interests of faculty and students. May be repeated for credit when the topic changes.

**DESN 509 SHORT COURSE IN GRAPHICS (1 - 3)**

Intensive course meeting three hours per week for five weeks and focusing on a specialized aspect of graphic design or graphic production. Content varies according to the concurrent interests of faculty and students. May be repeated for credit when the topic changes.

**DESN 600 MEDIA DESIGN (3)**

Examination of light, space, motion and sound—their manipulation and use in designing intentional communications and their interrelationships with words and graphics. Also examines the production process, from needs assessment and proposal writing to storyboards and finished program. Lab fee may be required.

**DESN 601 WORDS AND IMAGES: CREATIVE INTEGRATION (6)**

Building on a foundation of rhetorical theory, students explore imaginative ways of communicating with audiences, both visually and verbally. Experimenting with brainstorming strategies prepares them to draw on their own creative resources as they develop original solutions to challenging communication problems. Publications Design students must earn a B (3.0) or better in this course. Lab fee required.  
prerequisite: PBDS 615

**DESN 602 INTRODUCTION TO DIGITAL VIDEO (3)**

Introductory course in video and audio production. Students learn to shoot, light, edit, and record sound in a digital environment. They also gain experience in producing for non-broadcast applications including social media and the Web. Lab fee required.

**DESN 603 EDITORIAL STYLE (3)**

Editorial style as a total concept, including the historical context of the written word, styles and methods of editing, and special skills such as proofreading, line-by-line editing, reorganizing, rewriting, working with

writers and artists and editing as management. Each student becomes the editor of his/her own special project. Lab fee may be required.

### **DESN 604 WRITING FOR THE MARKETPLACE (3)**

Writing for various freelance markets, including features and reviews, poetry, fiction, public relations and advertising. Analysis of the audiences to which various publications appeal and development of a proposed publication aimed at a specific audience. Each student conducts a thorough investigation of a self-selected market and prepares what is intended to be a publishable manuscript for that readership.

### **DESN 605 PUBLIC AND PRIVATE LANGUAGES (3)**

Examination of the “private” or specialized languages of various professions (e.g., science, medicine, education, government and politics) and the means by which these languages may be translated for the public. Each student investigates, through intensive reading, study and imitation, at least one specialized language and attempts to become proficient in adapting and/or decoding that language for public consumption.

### **DESN 610 VISUAL & VERBAL RHETORIC (3)**

Analysis and evaluation of visual and verbal texts composed in a variety of media—both traditional and electronic—in light of classical and contemporary theories of communication. Completion of a major project based on substantial primary and secondary research and tailored for a specific audience.

### **DESN 611 THE CRAFT OF POPULARIZATION (3)**

Writing for a lay audience about subjects that are technically or scientifically challenging or normally fall within the province of the scholar and specialist or otherwise inhibit instant understanding. Emphasis on clarity, precision and grace of expression.

### **DESN 612 CREATIVE METHODOLOGIES (3)**

**Provides an overview of key concepts in creative design methodologies and explores these concepts during the design process for critique and reflection. Following a learning-by-doing model of instruction this course is grounded in both theory and practice. Both attuned to a human-centered approach that is design driven, user oriented and process based.**

### **DESN 613 DESIGN WRITING (3)**

Introduces students to the practices and processes of various design-focused writing genres (criticism, features, online posts, personal and academic essays) as they examine the issues and policies that shape the designed environment. Employing various writing genres, students explore the designed environment with special emphasis on its contexts and consequences.

### **DESN 615 TYPOGRAPHY I (3)**

Exploration of the fundamentals of typographic form and function, progressing through the history, physical characteristics and implementation of type. Projects include the application of basic principles to an increasingly complex set of typographic problems. Knowledge of Adobe InDesign is required for this class, which must be taken within the first 9 credits of study. Lab fee required.

### **DESN 617 CREATIVE CONCEPTS (3)**

Exploration of creative processes and strategies for generating effective visual and verbal ideas. Analysis of creative solutions in various publications supplements practice in applying problem-solving techniques. Lab fee may be required.

### **DESN 638 DIGITAL PHOTOGRAPHY (3)**

Explores the endless possibilities of digital imaging. Beginning with acquisition, students learn about composition, lighting, depth of field and the substantive differences between digital and more traditional methods of photography. Students follow their images through the digital darkroom stage, exploring a variety of digital manipulation techniques to produce material for print and Web distribution. Emphasis on the development of portfolio-quality pieces. Lab fee required.

### **DESN 639 VIDEO AESTHETICS & TECHNIQUE (3)**

In-depth analysis of the aesthetic variables affecting video programs. Advanced video and audio projects culminating in a thesis-quality production. Lab fee required. prerequisite: DESN 602

**DESN 640 DESIGN PRINCIPLES AND STRATEGIES (3)**

Exploration through hands-on design projects of the roles of typography, photography and illustration in graphic communication. Analysis of audience, context, goals, market, competition and technical constraints. Brainstorming and problem-solving in groups and individually. Projects are suitable for inclusion in the student's portfolio. Lab fee required. prerequisites: DESN 612 and DESN 615

**DESN 641 MAGAZINE DESIGN (3)**

Intensive focus on the creative writer's forum—the literary magazine—or on consumer and trade publications. Purpose, philosophy, cover and content design, typography, production and other aspects of small press and consumer publications are covered. A final project, chosen by the individual student, is completed during the semester. Lab fee required. prerequisites: DESN 615 and DESN 612

**DESN 642 BOOK DESIGN (3)**

Exploration of books and book jackets as objects to be planned and produced, with emphasis on appropriate design choices and creative solutions. Lab fee required. prerequisites: DESN 615 and DESN 612

**DESN 645 TYPOGRAPHY II (3)**

An advanced exploration of typographic form and function, beginning with the physical characters of letterforms and progressing to the application of typographic principles to more complex problems such as information hierarchies, narrative sequencing, message and creative expression. The course will expand the class scope of Typography I. Projects in this course will be suitable for portfolio use. Lab fee required. prerequisites: DESN 615 and DESN 612

**DESN 647 INFORMATION DESIGN (3)**

The first priority of designers and writers is presenting information clearly. Students explore how typography, color, symbols, language and imagery can be strategically used to communicate complex information, underscore a message or tell a story more effectively. Students plan, write and design projects suitable for inclusion in their portfolios, all with the aim of elaborating their ability to organize information and solve problems. Lab fee required. prerequisites: DESN 615, DESN 612, and DESN 660.

**DESN 649 DESIGNER'S SURVIVAL GUIDE (3)**

Students develop design strategies that consider their clients' needs and constraints, utilize professional design software to execute comprehensive layouts capable of being printed on a conventional printing press, communicate with print vendors using standard printing terminology and troubleshoot basic prepress issues. Lab fee required. prerequisites: DESN 612 and 615

**DESN 650 ADVANCED GRAPHIC DESIGN (3)**

Through a series of progressively more sophisticated assignments, students develop design solutions that resolve a range of problems normally faced by clients. Projects include institutional and corporate brochures, identity programs, posters and a variety of other communications materials. Lab fee required. prerequisites: DESN 615 and DESN 612

**DESN 660 WEB DEVELOPMENT (3)**

Introduction to current standards and best practices for Web design. Emphasis on frameworks, content management systems and tools available for building and maintaining dynamic Web sites. Students must pass the pretest or pass DESN 501 before registering for this course. lab fee required.

**DESN 661 ADVANCED WEB DEVELOPMENT (3)**

Continues and builds upon the fundamental concepts and skills developed in PBDS 660 Web Development. Students learn the skills needed to apply complex specifications for digital media. Emphasis on advanced Web design using CSS, current scripts and plug-ins, content management systems and Web analytics to create more complex sites for diverse digital environments. lab fee required. prerequisites: DESN 612, DESN 615 and DESN 660, or permission of the instructor

**DESN 662 DESIGN FOR DIGITAL ENVIRONMENTS (3)**

A digital interface design course focusing on design principles, elements and typography applied to interactive sites and other dynamic media. Students explore visually striking identity development and



content styles, design mock-ups using creative software and implement designs across digital environments. Emphasis is on creatively conceptualizing, branding across media, designing with Web standards, implementing information architecture and user experiences successfully, and creating effective visual communications. Lab fee required. prerequisites: PBDS 612, PBDS 615

### **DESN 670 MOTION GRAPHICS FOR INTERACTIVE MEDIA (3)**

Students explore the relationship between graphic design and time-based interactive media while examining the history and fundamentals of animation. Students use current industry software to produce a range of motion graphics projects for the Web and other interfaces. Special attention is given to the creative processes and developing an appropriate conceptual, technical and aesthetic critical sense within the language of motion design for dynamic media. Lab fee required. prerequisites: DESN 615, DESN 612, Adobe CS4 competency and one of the following: DESN 645, DESN 714 or permission of program director

### **DESN 671 MOTION GRAPHICS I (3)**

After examining ways that motion graphics—logos, titles, etc.—differ from static graphics, and after learning various tools and animation techniques, students conceptualize, storyboard and produce motion graphics for video and other screen-based delivery systems. Lab fee required. prerequisites: DESN 612 and DESN 615

### **DESN 672 MOTION GRAPHICS II (3)**

Continues and builds upon the fundamental concepts and skills developed in PBDS 671 Motion Graphics I. Students learn the skills needed to apply complex animation techniques and narratives to motion graphic projects. Emphasis on advanced motion graphics that employ 3D workflows to create more complex screen-based projects for diverse environments. Lab fee required. Prerequisites: DESN 612, DESN 615 and DESN 671, or permission of the instructor.

### **DESN 680 ADVANCED PR STRATEGIES (3)**

Overview of how to create and implement appropriate communications and marketing plans for both for-profit and nonprofit organizations. Emphasis is on research techniques, concept development and copywriting for all environments: online, print, video and animation. Other areas covered include writing proposals, making oral presentations and working with designers, artists and clients. Lab fee may be required.

### **DESN 691 ART OF THE INTERVIEW (3)**

A face-to-face interview is essential for journalists and authors of books and articles dealing with current affairs and real-life issues, documentary filmmakers and even for public relations writers. In all these fields, you often need to gather information directly from people—orally. This course addresses how to research an interview, the ethics of an interview and how to distill information from an interview and write it up in a coherent, compelling fashion.

### **DESN 692 WRITING FOR DIGITAL ENVIRONMENT (3)**

Writing for all contemporary digital forms, including websites, landing pages, e-mail, social media, blogs and more. Students also explore how content and technology interact. Students complete a series of professional-level assignments using the forms individually and in combination. Understanding the roles of research, search engine optimization, information design and strategic thinking in writing for the Web is also emphasized.

### **DESN 693 MAGAZINE WRITING (3)**

Understanding, conceiving, writing and selling various types of magazine articles, including some of the following: trend stories, service stories, profiles, Talk of the Town, short features, personal essays. Readings include essays about the craft of journalism and books of narrative nonfiction. Prerequisite: None.

### **DESN 704 COPYRIGHT AND PUBLISHING (3)**

Introduction to media law, particularly as it relates to the field of publications. Provides a broad historical and theoretical overview and requires students to apply legal theory through the use of case studies and

examples drawn from the business of media. Explores the impact of technology on the evolution of media law and considers ethical issues currently faced by professionals in publications and communications.

**DESN 705 DESIGN-BUSINESS LINK (3)**

Relying largely on case histories and class discussions, this course examines the role of design as a competitive business strategy, with an emphasis on the many ways that designers and business people can work together to provide the synergies that successful design can bring to any organization.

**DESN 712 HISTORY OF GRAPHIC DESIGN (3)**

History of graphic design in Europe and in America, centering on the modern period but also dealing with design influences from earlier periods and from other cultures. Provides a background of visual solutions on which students may draw to solve their own publications design problems.

**DESN 713 INTEGRATED DESIGN STUDIO I: PRINCIPLES (3)**

An intensive studio experience addressing visual perception and the principles of design through readings on visual theory. Using primary texts, students explore design principles from key historic, psychological, abstract and artistic points of view. Students complete a major project in their area of specialization. Lab fee required.

**DESN 714 INTEGRATED DESIGN STUDIO II: TYPOGRAPHY (3)**

An intensive, multilayered studio experience focused on the study of typography. Students discuss the relationship between fine art and typography. Students produce an in-depth project based on individual reading and research. Lab fee required. Prerequisite: PBDS 645 or equivalent.

**DESN 715 INTEGRATED DESIGN STUDIO III: READINGS AND RESEARCH (3)**

An intensive workshop focused on readings and research. Engages students in the critical analysis of field-based literature. Provides students with the opportunity to participate in constructive critique of project ideas and the sharing of research resources and approaches. Prerequisite: permission of program director.

**DESN 719 DESIGN THINKING (3)**

**Introduces design concepts to those with minimal or no background in design and builds an awareness of the importance and breadth of design throughout our culture.** Focuses on developing creative-thinking skills and visual literacy. Areas of design covered include graphic, information, digital, environmental and industrial design. Also examines and discusses design ethics, design sustainability and the evolving role of design thinking in business. Lab fee required.

**DESN 720 THE DIGITAL ECONOMY (3)**

Impact of the digital revolution in a number of areas—how we make a living, how we govern ourselves and how we create values for ourselves. Provides students with an understanding of the way the digital economy creates a unique business culture and establishes (and reflects) a network of new economic values. Prepares students to effectively invest their time, talent and imagination in the new culture and economy of digital technology.

**DESN 723 THEORY OF VISUAL COMMUNICATION (3)**

Examines the fundamental characteristics that differentiate visual images from other modes of communication and considers ways that visual elements convey meaning in isolation and in combination. Students study real-world cases to better understand how theoretical concepts and constructs are used to solve communication problems.

**DESN 731 SEMINAR IN CREATIVE WRITING AND PUBLISHING (6)**

The capstone course for the specialization in Creative Writing and Publishing. Entering the course with a completed or nearly completed manuscript written while in the program, students revise, design and produce a publication consisting of their own original work. In a seminar setting, they act as peer advisors to one another and are responsible for providing in-depth critiques of each other's work. Team taught by a creative writer and a book artist or graphic designer, the course revisits and re-examines concepts introduced in earlier courses. Lab fee required.

**DESN 735 PORTFOLIO (3)**

Capstone experience during which each student prepares a professional portfolio that demonstrates mastery of the skills in writing and design emphasized throughout the program. In addition to refining work produced in earlier courses, each student produces a personal identity package and an electronic version of the portfolio. Lab fee required. prerequisites: DESN 615 and DESN 612

**DESN 740 SEMINAR IN PUBLICATIONS DESIGN (3)**

Culminating course in the master's program in publications design tests and stretches all knowledge and skills students have been learning up to this point. Students conceive a solution to a particular communications problem, work in teams to analyze its audience(s), develop a plan for making it public via print and/or other media, and design and write a prototype. Lab fee required. prerequisites: DESN 615 and DESN 601; course should be taken in a student's final semester

**DESN 750 WRITING: SPECIAL TOPICS (3)**

Intensive exploration of topics in writing of mutual interest to students and faculty. Content varies according to the concurrent interests of faculty and students. Specific topic is listed in the schedule of classes. Course may be repeated for credit when topic changes. Lab fee may be required.

**DESN 751 GRAPHIC DESIGN: SPECIAL TOPICS (3)**

Intensive exploration of topics in graphic design of mutual interest to students and faculty. Content varies according to the concurrent interests of faculty and students. Specific topic is listed in the schedule of classes. Course may be repeated for credit when topic changes. Lab fee may be required. prerequisites: DESN 615 and 601

**DESN 753 MEDIA: SPECIAL TOPICS (3)**

Intensive exploration of topics in communication and media of mutual interest to students and faculty. Content varies according to specific interests and trends in communication. Specific topic is listed in the schedule of classes. Course may be repeated for credit when topic changes. Lab fee may be required. Prerequisites: DESN 612 and DESN 615.

**DESN 754 BUSINESS PRACTICES: SPECIAL TOPICS: (3)**

Intensive exploration of topics in the business of a publications enterprise that are of special interest to faculty and students. Possible topics include managing a publications department, design studio or magazine, market research, and marketing and legal issues in publications. Specific topic is listed in the schedule of classes. Course may be repeated for credit when topic changes. Lab fee may be required.

**DESN 755 BACKGROUNDS AND IDEAS: SPECIAL TOPICS: (3)**

Intensive exploration of cultural trends, historical developments, ideas or systems of communication that have influenced or informed creative work in a variety of visual and verbal media. Content varies according to the concurrent interests of faculty and students. Topic appears under that name in the schedule of classes. Course may be repeated for credit when topic changes. Lab fee may be required.

**DESN 756 HYPERMEDIA: SPECIAL TOPICS (3)**

Intensive exploration of topics in hypermedia of mutual interest to students and faculty. Course may be repeated for credit when topic changes. Lab fee may be required. prerequisites: DESN 615 and 612

**DESN 775 INTERNSHIP (3 - 6)**

Direct experience working with a publications staff. Internship opportunities include working with private advertising and public relations firms, nonprofit agencies at the federal and state levels or private business and professional agencies that maintain publications staffs. Eligible for continuing studies grade. Lab fee may be required. prerequisite: permission of program director

**DESN 779 INDEPENDENT STUDY (1 - 3)**

Research or problem-solving project in some aspect of publications design. Topics and number of credits vary with individual student interests. Eligible for continuing studies grade. Lab fee may be required. prerequisite: permission of program director

**DESN 789 CREATIVE THESIS (3)**

Independent project, closely supervised by a faculty adviser. The thesis consists of a substantial body of creative writing (a volume of poems, a collection of stories or other prose, a novel), as well as the design

for the cover, title page and one inside spread. Finished work is reviewed by a faculty committee. Eligible for continuing studies (CS) grade; otherwise grading is pass/fail. Lab fee may be required. prerequisite: permission of program director

### **DESN 790 INDEPENDENT STUDY (3)**

Research or problem-solving project in some aspect of integrated design. Topics vary with individual student interests. Course may be repeated with permission of program director. Lab fee required.

Prerequisite: permission of program director.

### **DESN 791 PRACTICUM IN INTEGRATED DESIGN (3)**

Students apply skills and knowledge from coursework to high-level internships. Students interested in careers as professional designers work in design firms and related organizations; students interested in college teaching careers teach classes under faculty supervision. Eligible for continuing studies (CS) grade. prerequisites: permission of program director and all M.F.A. in Integrated Design coursework except DESN 793 and DESN 797

### **DESN 793 PROSEMINAR IN INTEGRATED DESIGN (3)**

Provides an overview of proposal development and design research in integrated design anchored in the literature and practice of the field. Students develop the requisite skills for bringing the proposal to completion. The course culminates in a research proposal that may be presented to the division as a thesis proposal. prerequisites: M.F.A. candidacy and permission of program director

### **DESN 797 INTEGRATED DESIGN THESIS (3)**

Independent and original design project supervised by a faculty member. This work should reflect an understanding of graphic design principles and demonstrate excellence in conceptualizing and executing design solutions to communication problems. Finished work is reviewed by a faculty committee. Pass/fail grading. prerequisite: program director's approval of topic prior to registration

### **DESN 798 CONTINUOUS ENROLLMENT (1)**

Provides continuing faculty direction, academic support services and enrollment services for students who have completed all course requirements for the degree but have not completed a thesis or final project. Students continue the independent work leading to finishing the thesis or final project that is significantly under way. Course may be repeated for credit as needed. Eligible for continuing studies (CS) grade; otherwise grading is pass/fail. Lab fee required. prerequisite: completion of all course requirements for degree program

### **DESN 799 INTEGRATED DESIGN THESIS (3 - 6)**

Independent and original project supervised by one or more faculty members. Thesis can be either research-based or an applied project. The thesis must demonstrate comprehensive knowledge of the foundations of design in addition to a specialized focus for the thesis. Finished work is reviewed by a faculty committee. Pass/fail grading. This course may be repeated once. Eligible for continuing studies (CS) grade. Lab fee required. Program director's permission required for registration. Prerequisites: completion of MFA candidacy, DESN 793, and program approval of thesis topic.

## **ECON: Economics**

### **ECON 100 ECONOMICS OF CONTEMPORARY ISSUES (3)**

Provides a survey of societal issues examined through the lens of economic analysis. A scientific approach is adopted in which the basic tools of economics are –applied to social issues such as pollution, crime and prevention, poverty and discrimination, professional sports and economic growth. Students gain an appreciation of how society addresses the conflict between unlimited wants and scarce –resources. [SOSC] [GIK] [SBS]

### **ECON 201 PRINCIPLES OF MICROECONOMICS (3)**

This course introduces economic analysis of individual, business, and industry choices in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenues, market structures, income distribution, market failure, and government intervention. [SBS]

### **ECON 202 PRINCIPLES OF MACROECONOMICS (3)**

This course introduces economic analysis of aggregate output, employment, income, and prices. Attention is paid to international trade and global impacts across economies. The main analytical goal is application of the aggregate supply and demand model to understand fluctuations and government intervention. Students will be exposed to economic data and asked to present the data with an explanation. [SBS]

### **ECON 312 INTRODUCTION TO ECONOMIC DEVELOPMENT (3)**

This course introduces students to local economic development from the perspective of the real estate industry and economic development professionals. Students will become familiar with theoretical frameworks of urban economies including theories of the location of economic activity and the principles of urban economic development, housing, transportation, poverty, and unemployment and municipal finance. Students are also exposed to economic development finance including the fundamentals of bond finance, tax increment financing, among others. Students will learn specific techniques in assessing local economies for business attraction and retention strategies such as location quotients, shift-share analysis and input-output analysis. While there is no formal pre-requisite, previous coursework in economics is recommended. [GD]

### **ECON 410 ECONOMICS OF SUSTAINABILITY AND SOCIAL RESPONSIBILITY (3)**

Students are exposed to evolving firm strategies and actions generally designed and invoked under the umbrella of social responsibility from the vantage point of Economics. The broadness of social responsibility is continually growing and much analysis in the course is from the stakeholder point of view. A component of the course will relate to emergent issues from the Economic/Financial role. Prerequisite: Junior Status and Econ 200 or equivalent.

### **ECON 497 SPECIAL TOPICS IN ECONOMICS (3)**

The economics and finance faculty, from time to time, offer an opportunity to integrate new material into the undergraduate program reflecting changes in the field and in the educational needs of students. Prerequisites: ECON 305 and six additional hours of economics.

### **ECON 499 INDEPENDENT STUDY: ECONOMICS (1 - 3)**

An independent study completed under the direction of a faculty member. For eligibility and procedures, refer to the Merrick School of Business Independent Study Policy. Prerequisites: Merrick School of Business student or permission of the instructor

### **ECON 505 MICRO ECONOMICS (1.50)**

Covers comparative advantage, supply and demand, elasticity, opportunity cost, competition and monopoly, and externalities. Emphasizes understanding concepts that are useful in making effective choices in a variety of economic and managerial situations. prerequisite: graduate standing

### **ECON 506 MACRO ECONOMICS (1.50)**

Covers economic growth, monetary and fiscal policy, inflation and unemployment. Emphasizes understanding concepts, such as Federal Reserve policy, that are useful for managerial decision-making. prerequisite: graduate standing

### **ECON 605 BUSINESS AND PUBLIC POLICY IN A GLOBAL ECONOMY (1.50)**

This course uses an economic framework to analyze and evaluate public policy issues that may affect businesses. Ethical and managerial implications are integrated. Applications of the framework include globalization, environmental, and health care issues. prerequisite: ECON 505 and ECON 506

### **ECON 650 BUSINESS ECONOMICS (3)**

Applies macro-, micro- and global economic theory, drawing on analytical techniques and other business areas, to understand the financial environment of the firm. Based on an understanding of market behavior, the course examines global competitiveness, regulation and pricing. Attention then turns toward

the impact of global and macroeconomic forces acting on organizations. Students will be expected to demonstrate analytical skills in solving real-world problems, with an emphasis on the financial conduct and structure of the firm. prerequisites: ECON 505, ECON 506 and OPRE 505, OPRE 506

### **ECON 710 ECONOMICS OF SUSTAINABILITY AND SOCIAL RESPONSIBILITY (3)**

Students are exposed to evolving firm strategies and actions generally designed and invoked under the umbrella of social responsibility from the vantage point of Economics. The broadness of social responsibility is continually growing and much analysis in the course is from the stakeholder point of view. A component of the course will relate to emergent issues from the Economic/Financial role.

### **ECON 720 INTERNATIONAL ECONOMICS AND FINANCE (3)**

Covers the framework of international economics and finance. Topics covered include classical trade theory, balance of payment, models of open economy, export and import economic policies and trade performance, foreign exchange markets, currency options and futures markets, international money markets and capital markets. Specific application will be made to European, Asian and Latin American markets. Prerequisites: ECON 504 or ECON 505 and ECON 506.

### **ECON 740 BUSINESS, ETHICAL, AND REGULATORY PERSPECTIVES OF AI (3)**

This course delves into the ethical and regulatory dimensions of using artificial intelligence in business activities incorporating perspectives of stakeholders. Introductions to various ethical perspectives and approaches are used to conduct analysis within various domains of ethical reasoning. Current and proposed regulations are discussed through an economic lens. Students will gain an understanding of the ethical principles guiding AI applications, as well as the legal frameworks and compliance requirements for businesses operating in AI-driven environments. Students will be encouraged to critically consider how to apply AI in their personal and professional lives.

### **ECON 792 SPECIAL TOPICS IN ECONOMIC MANAGEMENT (1.50)**

Specialized topics in economics allowing flexibility for both the changing developments in business and the educational needs of students. Topic areas may include econometrics, entrepreneurship or organizational architecture. Exact listing of topics and prerequisites may be listed in schedule of classes. prerequisite: ECON 504 or area approval

### **ECON 797 SPECIAL TOPICS IN ECONOMIC MANAGEMENT (3)**

Specialized topics in economics allowing flexibility for both the changing developments in business and the educational needs of students. Topic areas may include econometrics, entrepreneurship or organizational architecture. Exact listing of topics and prerequisites may be listed in schedule of classes. prerequisite: ECON 504 or area approval

### **ECON 799 INDIVIDUAL RESEARCH (1 - 3)**

Individual research in an area of interest to the student. The expectation is that work equivalent to a regular graduate course will be completed. Formal paper(s) will be written under the supervision of a full-time faculty member. prerequisites: approval of both an economics faculty member and the department chair

## **ENGL: English**

### **ENGL 200 THE EXPERIENCE OF LITERATURE (3)**

Teaches students how to read, understand and appreciate fiction, drama and poetry. Exploration of three major literary genres through close reading of selected works, with attention to the contexts that have shaped them. Understanding and applying literary terms and concepts to written analysis of literary works. [ENGL] [HAT] [AH]

### **ENGL 211 POPULAR WRITING (3)**

Explores writing that entertains, informs and persuades. The course includes advertising, journalism, public relations, blogs, political messages, Web content and other mass media. The emphasis is on

contemporary writing and writers. The course considers the effects of visual as well as verbal aspects of communication. Students complete several writing assignments in selected forms and styles covered in the course. [COM] [AH]

**ENGL 215 INTRODUCTION TO CREATIVE WRITING (3)**

Introduces students to the creative process and craft of writing poetry and fiction by exploring the elements and techniques of those genres. Students write and share poems and short fiction in a workshop setting. [COM] [AH]

**ENGL 250 EXPLORING LITERATURE (3)**

Readings in the literature of self-discovery, initiation and the quest for identity. Contemporary racial, religious, sexual, sociocultural and class experiences are examined with a look back to their roots in tradition. [ENGL] [HAT] [AH]

**ENGL 296 TOPICS IN WRITING (3)**

Intensive exploration of topics in writing. The topic for study appears in the class schedule. Course may be repeated for credit when topic changes.

**ENGL 297 TOPICS IN ENGLISH (3)**

Intensive exploration of topics in literature or language. The topic for study appears in the class schedule. Course may be repeated for credit when topic changes. [ENGL] [AH]

**ENGL 301 INTRODUCTION TO ENGLISH STUDIES (3)**

Provides a foundation for the English Major and introduces students to English studies through the exploration of fundamental questions related to reading, writing, and the interpretation of texts. Covers creative, professional, and critical writing; basic literary analysis; and cultural and historical timelines. Emphasizes development of students' critical-thinking and written and oral communication skills.

Prerequisite: none. [GD]

**ENGL 311 WELLS OF THE PAST: CLASSICAL FOUNDATIONS (3)**

An intensive study of varieties of great literature organized thematically and in terms of ideas connected with periods of important historical or philosophical change. Stressed at present is the age of classical antiquity. Recommended for all students interested in a humanistic and cultural approach to literature and ideas. [HAT] [AH]

**ENGL 313 WORLDS BEYOND THE WEST (3)**

An intensive study of some of the great writing from non-Western literatures. Topics may include literatures of the ancient Near East, East Asia, or Africa and its worldwide diaspora. Course may be repeated for credit when the topic changes. [HAT] [AH]

**ENGL 315 THE SHORT STORY (3)**

An investigation of the various forms a short story may take and the kinds of effects writers have tried to produce. Particular attention is given to authors of the 20th century. [HAT] [AH]

**ENGL 316 MODERN POETRY (3)**

A reading and discussion of 20th-century poetry. Emphasis is given to major works of those poets thought best to define the modern and its diversity of poetic response. [HAT] [AH]

**ENGL 317 THE NOVEL (3)**

Historical overview of the development of the genre of the novel from the 18th to the 21st centuries. Focus on the development of narrative strategies and the role of the novel in the literary marketplace. [HAT] [AH]

**ENGL 319 TOPICS IN INTERNATIONAL LITERATURE (3)**

Readings in global fiction, poetry, and prose. May focus on the literature of one particular region/ country or offer a broader comparative study. May be repeated for credit when the topic changes.

**ENGL 320 CONTEMPORARY LITERATURE (3)**

An investigation of trends and individual writers of today with respect to their immediacy and possible universality. Varied emphasis on the many different forms of current poetry, drama, and prose. [HAT] [AH]

**ENGL 321 ARGUMENT AND PERSUASION (3)**

For students in all disciplines who wish to develop control and confidence in critical thinking and persuasive writing. Instruction centers on the analysis and production of written arguments on issues of current interest or enduring importance that are enriched by cross-disciplinary perspectives and multiple points of view.

**ENGL 323 WRITING, EDITING AND PUBLISHING (3)**

An introduction to professional writing, editorial concepts and the publication process. Writing and editing for brochures, newsletters and magazines, with special emphasis on audience and purpose. Laboratory fee may be required.

**ENGL 324 PUBLIC RELATIONS WRITING (3)**

Experience in preparing news releases and other promotional materials for print, electronic, online, and other digital media. Students will integrate writing formats, techniques, and skills to engage and motivate target audiences.

**ENGL 325 INTRODUCTION TO JOURNALISM (3)**

An introduction to journalistic writing and overview of trends and developments in the field. Students will learn to research, write, and present various kinds of basic news stories for traditional and digital media. Throughout the course, they will consider the civic, social, and ethical responsibilities of the profession.

Prerequisite: none

**ENGL 326 WRITING FOR DIGITAL MEDIA (3)**

Informational and persuasive writing for electronic and digital media. Emphasizes the translation of information, ideas, and experience into various contemporary one-way and interactive presentational formats.

**ENGL 330 THE ART OF FILM (3)**

A study of film as an art form. Course considers film as an artifact, made in particular ways and having a certain style and structure. Emphasis is placed on the ways film represents space and time. Laboratory fee required.

**ENGL 331 POPULAR GENRES (3)**

A genre-based approach to one or more popular forms of literature, such as graphic novels, mystery, science fiction, fantasy, or chick lit. Focus on the relationships between the genre and the contexts surrounding its production. May be repeated for credit when the topic changes. Prerequisite: none. [HAT] [AH]

**ENGL 332 LITERATURE AND FILM (3)**

A study of famous and infamous adaptations of literary classics, ancient and modern. The problems involved in adapting one medium of communication to another. Laboratory fee may be required. [HAT] [AH]

**ENGL 333 MEDIA GENRES (3)**

Analysis of the patterns and conventions of a specific type of media program (e.g., Western, science fiction, situation comedy), media artist (e.g., Hitchcock, Allen, Capra) or style (e.g., film noir). May be repeated for credit when the topic changes. Laboratory fee may be required. [HAT] [AH]

**ENGL 336 YOUNG ADULT LITERATURE AND CULTURE (3)**

A study of literature written for adolescents or young adults. Examines differences between adolescent and adult literature, criteria for evaluating it, guidelines used by writers, and ways in which teachers incorporate it into the curriculum [HAT] [AH]

**ENGL 337 GREAT PLAYS (3)**

A study of plays from major periods of world drama, with a view to showing the shaping of the literary movements, forms, and techniques of the modern theater.

**ENGL 338 MODERN DRAMA (3)**

The drama of the 20th century, with emphasis on contemporary movements and innovations. [HAT] [AH] [GD]

**ENGL 341 AMERICAN LITERATURE TO 1900 (3)**



A critical and historical study of representative 18th and 19th Century American authors and movements, including Romanticism, Realism, Naturalism.

**ENGL 344 AMERICAN LITERATURE SINCE 1900 (3)**

A critical and historical study of the ideas, structure, and themes of major American novels, drama, poetry and short stories of the 20th and 21st centuries [HAT]

**ENGL 346 THE AMERICAN DREAM (3)**

The continuing cycle of faith and doubt in the brave new world of America, with particular attention to the writers of America's maturity. [HAT]

**ENGL 348 MULTI-ETHNIC AMERICAN LITERATURE (3)**

A survey of the diversity of the literature of the Americas, focusing on indigenous or nonwhite populations, with an emphasis on cultural traditions and exchanges. [HAT]

**ENGL 349 AMERICAN IDENTITIES: EXPLORATIONS IN THE PAST AND PRESENT (3)**

A study of problems of individual identity and social roles: racial, ethnic, and sexual. The voices of writers and poets that reflect two worlds, yet are urgently their own. [HAT] [AH]

**ENGL 350 TOPICS IN AFRICAN-AMERICAN LITERATURE (3)**

Introduces major genres of the African American literary canon: folktale, slave narrative, activist poetry, political essay, short story, and novel. Broaches themes such as bondage, religion, racism, morality, national identity, abolitionism, and group aesthetics. Explores texts from major writers spanning the 18th through the early 20th century (Harlem Renaissance and realism of the early to mid-twentieth century).

Prerequisite: none [HAT] [AH] [GD]

**ENGL 351 ANCIENT MYTH: PARADIGMS AND TRANSFORMATIONS (3)**

An introduction to classical mythology as well as other ancient literatures and mythography's along with their later adapters and interpreters. Prerequisite: None [HAT]

**ENGL 356 LITERATURE AND LAW (3)**

This course examines the relationship between law and literature through close readings of literature dealing with the law, along with close readings of legal texts from a literary perspective. Students will read primary course materials with special attention to historical, social, and cultural contexts that have shaped them. Along the way, students will look at ways that writers employ various techniques and devices to evoke both clarity and ambiguity for different audiences and different purposes. Prerequisites: None [HAT] [AH]

**ENGL 360 MAJOR AUTHORS (3)**

An in-depth study of one, two, or three authors connected by historical period, literary movement, or major themes in their work. May be repeated for credit when the topic changes. Prerequisite; none [HAT] [AH]

**ENGL 363 CREATIVE WRITING WORKSHOP: SCREENWRITING (3)**

Intensive writing experience for students interested in writing drama for television and film. Emphasizes characterization, dialogue and plot development as well as conventions of and script formats for television and film.

**ENGL 365 SHAKESPEARE'S INFLUENCE (3)**

Explores the works and historical context of one of the world's greatest storytellers and investigates the ways in which his legacy continues to shape the art of narrative today.[AH]

**ENGL 372 TOPICS IN WOMEN'S LITERATURE (3)**

Women's writing and writing about women in the context of specific times and/or places. Emphasis on the literature, legends and other means (e.g., letters, journals, biographies) by which women's voices can be heard. May be repeated for credit when the topic changes. [HAT] [AH] [GD]

**ENGL 374 AUSTEN, THE BRONTES AND WOOLF: ROOMS OF THEIR OWN (3)**

Classic, Romantic, Modern — these women brought their unique visions to life within the context of larger literary movements but created rooms of their own within which to write and live.[HAT] [AH]

**ENGL 382 CREATIVE WRITING WORKSHOP: POETRY (3)**

In a workshop setting, students are introduced to a wide range of poems that serve as models for their own writing. This intensive reading, writing and feedback experience helps students deepen their imaginations and develop their craft as poets.

**ENGL 383 CREATIVE WRITING WORKSHOP: FICTION (3)**

Introduces students to the elements of fictional craft and gives them the opportunity to write their own short stories. Students study fiction by masterful writers to learn about language and form. Writing exercises encourage risk taking and originality while generating material to be developed into stories. Students submit their story drafts to the class for discussion.

**ENGL 385 CREATIVE WRITING WORKSHOP: PLAYWRITING (3)**

Intensive writing experience for students interested in writing drama for the stage. Emphasizes characterization, dialogue, and plot development as well as conventions of and script formats for theatre. Lab fee may be required. Prerequisites: none.

**ENGL 386 CREATIVE WRITING WORKSHOP: JOURNALISM (3)**

In a workshop setting, provides an opportunity to write creative journalism and study famous journalists and journalistic writing, including analysis of the style, language and ideas of writers who have gone beyond basic reporting to break new ground. Requires a professional approach to journalistic writing.

**ENGL 387 CREATIVE WRITING WORKSHOP: MEMOIR (3)**

In a workshop setting, an opportunity to write memoir. Students read and study memoirs by contemporary authors to become familiar with the many possibilities available to writers working in this form. Also focuses on issues relevant to the writing of memoir, including craft and technique, memory and truth telling, and interior and exterior significance.

**ENGL 388 CREATIVE WRITING WORKSHOP: SPECIAL TOPICS (3)**

In a workshop setting, students are introduced to a wide range of texts within a specific genre that serve as models for their own writing. This intensive reading, writing and feedback experience helps students deepen their imaginations and develop their craft as writers. Prerequisites: none

**ENGL 390 SYNTAX, SEMANTICS AND STYLE (3)**

Fundamentals of discourse analysis, addressing both structural and lexical elements in sentence construction. Survey of contemporary grammars, error analysis, sociolinguistic theories of language behaviors, editorial issues such as linguistic sensitivity, the influence of informal on formal usage and the appropriate domain of editorial policy.

**ENGL 391 TOPICS IN LANGUAGE AND SOCIETY (3)**

A consideration of narratives in the information age, historical developments through which changes in linguistic practice manifest themselves, and information theory. The role of languages in the social construction of reality as well as in the narrower sense of specific agents of change. May be repeated for credit when topic changes.

**ENGL 392 THE ARCHAEOLOGY OF LANGUAGE (3)**

A study of the beginnings, principles, and designs of language. Competing paradigms of what language is and how it does what it does: how it communicates and conceals meaning; and how it expresses what we feel, think, represent, and construe. [AH][GD]

**ENGL 395 UNDERSTANDING NARRATIVE (3)**

A study of narrative, both verbal and visual, as a form of discourse. The course focuses on the nature of narrative, types of narrative and the role of the reader/viewer in the narrative process. In addition to reading and viewing a wide range of narrative texts, from fairy tales to modern fiction, classical myths to television commercials and popular films, students compose their own narratives to gain a deeper understanding of what stories are and why they matter to us.

**ENGL 397 LITERARY THEORY AND INTERPRETATION (3)**

An introduction to various schools of literary theory and exploration of ways in which we **make** sense of literary works. Emphasis is placed on the relationships between literary texts and theoretical approaches (e.g., formal, inter-textual, historical, cultural) that makes reading, as an interpretive act, a vital, rich and

complex experience, and students will apply various theoretical lenses to literary texts for the purposes of analysis and interpretation. Prerequisite or co-requisite: 3 credits of literature coursework.

**ENGL 400 LITERATURE IN SOCIETY (3)**

An investigation of how literature emerges from and is shaped by the cultural and historical circumstances of specific times and places. May be repeated for credit when the topic changes.

**ENGL 401 PUBLICATION AND PERFORMANCE (3)**

A seminar involving a creative project in a particular literary form to be undertaken by each student. Emphasis on exploring the relationships of writing and publications and on developing one's writing in specific publications contexts. Lab fee may be required.

**ENGL 402 COPY-EDITING AND DOCUMENT DESIGN (3)**

An advanced technical and professional writing seminar in which each student presents a formal proposal and a major writing project for peer review and critiques other participants' work at all stages of the project development process.

**ENGL 407 INTERNSHIP IN PROFESSIONAL WRITING (1 - 3)**

An opportunity for students to apply skills developed through coursework while gaining practical experience in writing and/or editing within a professional setting. Grading: pass/fail. Course is eligible for a continuing studies grade. prerequisites: consent of the Program Director of English Program Internship Coordinator..

**ENGL 408 INTERNSHP IN UNIVERSITY PUBLICATIONS (1 - 3)**

The University publication as a laboratory. Practical experience in the creative process of producing newspapers, magazines and books through work on student publications and, where possible, on other publications of the University. Eligible for continuing studies grade; otherwise, grading: pass/fail.

Prerequisite: consent of the Program Director or Internship Coordinator. Course may be repeated for credit. A maximum of 6 credits may be applied toward the degree.

**ENGL 421 ELIZABETHAN RENAISSANCE: IN THE GREEN WORLD (3)**

A study, through poetry and drama, of the 16th-century English Renaissance. The world that molded Shakespeare and about which Shakespeare wrote.

**ENGL 441 THE ROMANTIC IMAGINATION (3)**

A critical analysis of Romanticism and its meaning. The poetry, and some prose, is set against the background of the neoclassical and is viewed as a continuing literary force and ideal.

**ENGL 442 THE VICTORIAN PARADOX (3)**

Synthesis versus alienation. The Victorian consciousness torn by the emerging turmoil of modern society. Literature as the reflection of an age in transition.

**ENGL 450 THE GREAT MODERNS (3)**

A seminar concentrating on three to five major writers of the early 20th century considered against the critical background of Modernism. May be repeated for credit when the topic changes.

**ENGL 489 DIRECTED INDEPENDENT STUDY (1 - 3)**

Consideration and completion of a special topic or project in the study of literature or language. Each student works closely with a faculty member who helps to set goals, develop a course plan and guide progress. The project must be carefully planned and have the approval of both the instructor involved and the literature program director.

**ENGL 490 HONORS THESIS (3)**

Directed individual instruction in the writing of a scholarly, critical or research paper. Each student works closely with a faculty director who guides his/her progress. The thesis must be of honors quality and must be finally approved by both the director and a second reader, one of whom is usually the division chair. Course is eligible for a continuing studies grade. prerequisites: 3.5 GPA and/or permission of both the program director and the division chair

**ENGL 493 HONORS SEMINAR (3)**

An advanced interdisciplinary seminar that focuses on important books and issues and encourages independent thinking, clear presentation and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. prerequisites: 3.5 GPA and permission of the Denit Honors Program director

#### **ENGL 494 THESIS IN LITERATURE (3 - 6)**

Directed individual instruction in an advanced project of the student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a continuing studies grade. prerequisites: 3.5 GPA and permission of both the Denit Honors Program director and the faculty director

#### **ENGL 497 TOPICS IN LITERATURE (3)**

Intensive exploration of topics in literature of mutual interest to students and faculty. Content varies according to the concurrent interests of faculty and students. The topic studied appears under that name in the class schedule. Course may be repeated for credit when topic changes. prerequisite: none unless listed in the class schedule

#### **ENGL 498 SEMINAR IN ENGLISH (3)**

A close examination of a major author, work, theme or period in the light of literary traditions. Emphasizes independent thought, culminating in a written project to be presented before the class. Topic may change from year to year. Prerequisite: senior status and completion of English 301. [IL] [CAP]

### **ENTR: Entrepreneurship**

#### **ENTR 101 IMAGINATION, CREATIVITY AND ENTREPRENEURSHIP (3)**

Students will experience what it means to discover the patterns that produce breakthrough ideas when attempting to solve business problems. Participants in this class will be exposed to a systematic approach to changing the way they create, identify and sell these ideas. They will also be introduced to a number of techniques, concepts and methods that can be added to their creative skills toolkit. The course is designed around real methods that have been proven to work in some of the leading corporations in the world. These methods are conveyed through both interactive and experiential learning approaches. Students will form teams for the purposes of developing creative solutions to problems and coming up with a concept around which a venture can be based. [CTE] [SBS]

#### **ENTR 305 ENTREPRENEURSHIP AND INNOVATION (3)**

An introductory course on entrepreneurship and innovation with emphasis on concepts of new market opportunity identification in both new ventures and existing organizations. Students will apply creative problem solving to identify entrepreneurial opportunities which are financially viable. Interdisciplinary analysis will be utilized and involves identifying, evaluating, and determining whether a scalable business opportunity exists. Students will develop the analytical and conceptual skills required to understand and explore the creative and innovative underpinnings of new products, services, and organizations. Similarities and differences in creativity and innovation across different levels, from the individual level to the organizational or industry level, will be highlighted, as are differences in financing options and early-stage sources of capital for new ideas. The course includes oral, visual, and written communication, including distilling an entrepreneurial idea into elevator pitches and summarizing complex market opportunities into a multi-stakeholder dialogue.

#### **ENTR 320 OPPORTUNITY ASSESSMENT AND DEVELOPMENT (3)**

Developing the analytical and conceptual skills required to test the feasibility of a concept for a new venture. A venture feasibility study involves undertaking activities that may help determine whether one should go forward with an opportunity. The process of feasibility analysis involves identifying, evaluating

and determining whether to exploit an opportunity. Students will learn a number of practical skills and techniques that are applied to opportunities that students will explore. The creation of a feasibility study is the primary activity of the class. The course involves a significant amount of outside work that is time consuming, ambiguous, complex and multi-functional in nature. Feasibility analysis forces students to: undertake a significant amount of field research; develop and think critically about business concepts; answer fundamental questions about strategic, marketing, financial, operational and human resource issues about business concepts; and then research a decision about going forward to start the venture that is proposed. prerequisite: ENTR 305

#### **ENTR 390 ENTREPRENEURSHIP MENTORSHIP (1)**

Linked to the first three practice in the Entrepreneurship Fellows Program. Consists of approximately 4 hours per week of mentorship with a local expert entrepreneur. Prerequisite: Status as an Entrepreneurship Fellow. Department permission required.

#### **ENTR 430 CAPITAL ACQUISITION & STRATEGIC FINANCIAL MANAGEMENT FOR ENTREPRE VENTURES. (3)**

Provides knowledge and training in the area of capital acquisition strategies and tactics through the life cycle of an entrepreneurial venture, and coverage of valuation techniques as applied to the allocation of business assets. Topics include start-up and mezzanine financing, and bridging to initial public offers on the capital acquisition side, as well as capital budgeting and internal control techniques applied in the strategic context developed in earlier courses. Prerequisite: ENTR 300/ Merrick School of Business or by permission of the instructor

#### **ENTR 450 ENTREPRENEURIAL ORGANIZATION, PLANNING & IMPLEMENTATION (3)**

The capstone course of the specialization in entrepreneurship. Students apply knowledge and experience gained in prior courses to develop and implement a new venture. Outside entrepreneurs bring real-world problems to class and students participate in field experiences. Emphasis is placed on creating and continuously enhancing an overall management system to guide the entrepreneurial venture as it grows. Prerequisites: ENTR 305 and ENTR 320 / Merrick School of Business student or by permission of the instructor

#### **ENTR 460 SOCIAL ENTERPRISE (3)**

Successful nonprofit organizations are consistently challenged to expand their impact, be socially responsible and fiscally accountable, and find new sources of revenue. In response, more and more organizations are discovering innovative ways to generate both financial and social returns on their investments. Students and selected nonprofits learn about successful ventures and engage in lectures and hands-on work to determine the feasibility of entrepreneurial ideas, recognize and overcome financial obstacles, and convert social venture ideas into reality. prerequisites: FIN 331 and ENTR 305 / Merrick School of Business student or by permission of instructor

#### **ENTR 490 ENTREPRENEURIAL STRATEGY (3)**

One of the courses that comprise the final practicum in the Entrepreneurship Fellows program. Using entrepreneurial strategy as the integrating framework, students reflect on what they have learned in the program, integrate that learning with their new venture concept and prepare to launch their new venture upon or before graduation. prerequisites: status as an Entrepreneurship Fellow and completion of the Entrepreneurial Opportunities and Markets, Human Capital in a New Venture and Economics of New Venture Financing practice

#### **ENTR 497 SPECIAL TOPICS IN ENTREPRENEURSHIP (3)**

The entrepreneurship faculty, from time to time, offer an opportunity to integrate new material into the undergraduate program reflecting changes in the field and in the educational needs of students. Prerequisite: ENTR 305.

#### **ENTR 499 INDEPENDENT STUDY (1 - 6)**

An independent study completed under the direction of a faculty member. For eligibility and procedures, refer to the Merrick School of Business Independent Study Policy. Prerequisites: Merrick School of Business student and permission of the instructor.

**ENTR 605 CREATIVITY AND THE ENTREPRENEURIAL MINDSET (1.50)**

Focuses on personal and organizational creativity and enables students to recognize and develop creative abilities in organizations. Includes a final team-based new product pitch that allows students to apply creativity in a business context. prerequisite: graduate standing

**ENTR 740 BUSINESS APPLICATIONS OF ARTIFICIAL INTELLIGENCE IN ENTREPRENEURSHIP (3)**

Introduces students to the opportunities and challenges of artificial intelligence (AI) in entrepreneurship. Main topics include the practical applications of AI in opportunity identification, evaluation and exploitation, the role of AI in shaping startup activity, and societal implications of AI-driven entrepreneurship.

**ENTR 750 LEADING AND MANAGING INNOVATION (3)**

Focuses on leading and managing innovation in various organizational settings, including the for-profit, non-profit, and public sectors. Enables students to improve habitats for organizational innovation. Includes a final team-based consulting project with organization seeking to boost its innovative capacity. Prerequisite: ENTR 605

**ENTR 760 SOCIAL ENTERPRISE AND ENTREPRENEURSHIP (3)**

Provides a study of how successful nonprofit organizations respond to the challenges of expanding their impact, being socially responsible and fiscally accountable, and finding new sources of revenue. The course will investigate innovative ways to generate both financial and social returns on their investments. Students will engage with live social entrepreneurs to evaluate and respond to market opportunities to develop and grow social enterprises. prerequisite: FIN 505 or permission of instructor.

**ENTR 792 SPECIAL TOPICS IN ENTREPRENEURSHIP (1.50)**

As specified in the course syllabus

**ENTR 797 SPECIAL TOPICS IN ENTREPRENEURSHIP (3)**

As specified in the course syllabus

**ENTR 799 INDEPENDENT STUDY (3)**

Investigation into a particular subject in more depth than can be accommodated by an existing course. Students work closely with an individual faculty member. Prerequisites: ENTR 605 and approval of instructor, department chair and academic advisor

**ENVS: Environmental Science**

**ENVS 175 INTRODUCTION TO ECOLOGY (3)**

Introduction to the fundamentals of ecology. Topics include the relationship between organisms and their physical environments; population growth, regulation, and interactions; the nature and diversity of biological communities; ecosystem structure and function; and global climate change. [BPS]

**ENVS 201 ENVIRONMENTAL SUSTAINABILITY (3)**

Introduces the student to aspects and dimensions of the impact of burgeoning human populations on human societies and life on Earth in general. Specific applied topics in environmental science, ecology and sustainability are covered, with a focus on urban ecosystem issues. An emphasis is placed on current and newsworthy topics at scales ranging from local to global. Understanding the place of humans in the biosphere and how to ensure a habitable planet for future generations and for other organisms is a primary goal of the course. [GSCI] [QQT] [BPS]

**ENVS 221 SCIENCE OF THE ENVIRONMENT (4)**

A survey of a number of scientific disciplines related to the earth's changing environment, including geology, ecology, zoology, hydrology, climatology and chemistry. These disciplines are integrated to

provide a clearer understanding of complex environmental issues, using both local and global case studies. The laboratory portion of the course investigates environmental hypotheses and theories and introduces students to the techniques of environmental data collection and analysis. Lab fee required. [GSCI] [QQT] [BPSL] [IL]

#### **ENVS 285 ENVIRONMENTAL CHEMISTRY (4)**

Exploration of the fundamental principles of chemistry as they apply to the natural cycles of compounds in the environment, focusing on the source, fate and reactivity of compounds in natural and polluted environments. Emphasis is placed on environmental changes due to human activity, especially those related to land use and the exploitation of aquatic resources. Issues discussed include climate change, air pollution, industrial and municipal waste in waterways, and chemical cycling in urban areas. Prerequisite: ENVS 221 Science of Environment.

#### **ENVS 289 INDEPENDENT STUDY: INTRODUCTION TO FIELD/LAB RESEARCH (1 - 3)**

Provides students with the opportunity to pursue a research topic or special project in the natural and environmental sciences. Students work closely with a faculty member who helps set goals, develop a course plan and guide progress. Projects vary with individual student interests. Students may earn up to 3 credits for this independent study. Lab fee may be required. Prerequisite: permission of the program director.

#### **ENVS 300 GREATER BALTIMORE URBAN ECOSYSTEMS: FIELD INVESTIGATIONS (4)**

An introduction to local ecosystems; their determining natural forces and human-caused challenges; and strategies, methods and techniques used to assess ecosystem condition. Students develop skills to evaluate ecological assessment reports, guidance documents and sampling techniques produced and used by environmental agencies and other interested parties. The course includes both classroom and field components, with frequent class trips to local ecosystems to assess and compare their characteristics. prerequisite: ENVS 221 [TF]

#### **ENVS 310 SPECIAL TOPICS IN ENVIRONMENTAL SCIENCE (3)**

An intensive study of an issue or set of related issues in environmental science. Content varies depending upon the interests of faculty and students. Course may be repeated for credit when the topic changes. Laboratory fee required.

#### **ENVS 375 MOLECULAR GENETICS AND BIOTECHNOLOGY IN SOCIETY (4)**

The science behind practices such as cloning and genetic engineering and advances in biotechnology in human health, agriculture, aquaculture and environmental sciences are discussed. This course raises awareness of the impact of biotechnology on human society and discusses related ethical issues, and it provides students with the knowledge to evaluate the risks and impacts of advances in biotechnology. The laboratory portion of the course introduces students to the techniques used in molecular genetics, molecular biology and biotechnology. Prerequisite: BIOL 121.

#### **ENVS 420 RESEARCH SEMINAR IN ENVIRONMENTAL SCIENCES (2)**

Introduces students to the design and interpretation of environmental and ecological field studies and to statistical methods relevant to environmental science and ecology. Emphasizes the preparation of research proposals and reports, as well as written and oral communication of report findings. Prerequisite ENVS 300.

#### **ENVS 485 INTERNSHIP IN ENVIRONMENTAL SUSTAINABILITY (3)**

Allows students to receive course credit for real-world experiences in the environmental field. Students may work with a variety of types of organizations, including non-profits, government agencies and private companies. Students must complete a minimum of 120 hours over the course of a semester. Course is eligible for continuing studies grade. prerequisite: ENVS 221, permission of program director

#### **ENVS 490 SPECIAL PROJECTS IN ENVIRONMENTAL SCIENCE (3)**

Provides students with the opportunity to pursue a research topic or special project in environmental science. Students work closely with a faculty member who helps set goals and develop a course plan and guides progress. The project must be carefully planned and have approval of the course instructor. Lab

fee required. Eligible for CS ( continuing studies) grading - this course may take more than one semester to fully complete. prerequisites: ENVS 221 ,ENVS 300 and ENVS 420, permission of the program director. [CAP]

### **ENVS 493 HONORS SEMINAR (3)**

An advanced interdisciplinary seminar that focuses on important books and issues and encourages independent thinking, clear presentation and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. prerequisites: 3.5 GPA and permission of the Denit Honors Program director

### **ENVS 494 HONORS PROJECT (3 - 6)**

Directed individual instruction in an advanced project of the student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a continuing studies grade. prerequisites: 3.5 GPA and permission of both the Denit Honors Program director and the faculty director

## **FIN: Finance**

### **FIN 330 EXCEL FOR FINANCIAL ANALYSIS (3)**

Provides students with skills in the use of EXCEL spreadsheets to prepare and present analyses for personal, corporate, real estate and investment finance. prerequisite: Prior or concurrent enrollment in FIN 331

### **FIN 331 FINANCIAL MANAGEMENT (3)**

An overview and understanding of fundamental principles of financial decision-making and their application to internal and external problem-solving by the business enterprise. Topics include financial statement analysis and forecasting, time value of money and security valuation, corporate capital budgeting, cost of capital and capital structure. Thematic coverage encompasses the traditional, international and ethical dimensions of financial decision-making. prerequisites: ACCT 201, ECON 200 or 3 hours of micro- or macroeconomics, and MATH 115

### **FIN 333 INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT (3)**

An understanding of the basic valuation principles for financial instruments such as common stocks, bonds, and futures and options. These instruments are studied in the context of modern portfolio theory. Company and industry analysis projects provide the chance for practical experience. Prerequisite: FIN 331.

### **FIN 340 FINANCIAL PLANNING (3)**

A practical introduction to applying financial concepts and tools such as the time value of money, risk-return tradeoffs, asset pricing models, and financial databases to personal financial decisions about budgeting, housing, debt, insurance, taxes, retirement planning, education planning and investments. Prerequisite: FIN 331.

### **FIN 420 RISK AND INSURANCE (3)**

Fundamental concepts of insurance/reinsurance products as risk management tools for individuals and corporations. Topics include the regulatory environment, financial operations of insurance companies and the role of the capital market in the risk management process. Prerequisite: Merrick School of Business students or by permission of the instructor.

### **FIN 430 ENTREPRENEURIAL ORGANIZATION AND FINANCE (3)**

Provides knowledge and training in the area of capital acquisition strategies and tactics through the life cycle of an entrepreneurial venture and coverage of valuation techniques as applied to the allocation of business areas. Topics include start-up and mezzanine financing and bridging to initial public offers on



the capital budgeting and internal control techniques applied in the strategic context developed in earlier courses. Prerequisite: FIN 331.

**FIN 433 INTERNATIONAL FINANCIAL MANAGEMENT (3)**

In global financial markets, exchange rate risk exposure demands careful management and the use of financial instruments for hedging currency risk. These include currency options, futures and swaps. Working capital management and long-term financing and investment decisions are also crucial to today's financial managers and need to be understood in the context of expanding global financial markets. Prerequisite: FIN 331.

**FIN 450 FINANCIAL STATEMENT ANALYSIS AND FIRM VALUATION (3)**

Students learn how to apply the tools of financial ratio analysis, financial statement forecasting, and valuation taken from a wide variety of business settings and industries, including retail, manufacturing, distribution, service, and technology. Students also learn how to create well-crafted presentation exhibits and written documents, and develop the ability to present the findings of their analysis in verbal and written forms. Prerequisites: FIN 330 and FIN 331.

**FIN 470 REAL ESTATE INVESTMENTS (3)**

Introduces the fundamentals of real estate investment analysis, including elements of mortgage financing and taxation, and applies the standard tools of financial analysis and economics to real estate valuation. Topics include traditional and nontraditional appraisal methods, techniques of real estate financing, real estate work-outs, innovations in real estate financing and the relationship to the macroeconomic environment. prerequisites: FIN 331

**FIN 471 REAL ESTATE FINANCE (3)**

Analyzes the instruments, techniques and institutions of real estate finance. Emphasis is placed on the sources of funds, mortgage risk analysis and typical policies and procedures used in financing residential and commercial properties. Prerequisite: FIN 331

**FIN 495 INTERNSHIP IN FINANCE (3)**

Provides students with practical real-world experience in an organization. The course requires a minimum of 120 hours of practical work with a qualified firm based on explicit statements of student responsibilities and faculty/firm monitoring mechanism. Students will work closely with both the firm and a faculty member. prerequisites: completion of 9 hours of finance courses, with a minimum GPA of 3.0 in these courses. Completion of MGMT 330 is recommended. Permission of the department chair is required.

**FIN 497 SPEC TOPIC: (3)**

The economics and finance faculty, from time to time, offer an opportunity to integrate new material into the undergraduate program reflecting changes in the field and in the educational needs of students. Prerequisites: FIN 331.

**FIN 499 INDEPENDENT STUDY : FINANCE (1 - 3)**

An independent study under the direction of a faculty member. For eligibility and procedures, refer to the Merrick School of Business Independent Study Policy. Prerequisites: Merrick School of Business students and by permission of the instructor.

**FIN 505 ESSENTIALS OF FINANCE (1.50)**

Provides introductory-level coverage of financial management. Topics include overview of financial markets, financial statement analysis, time value of money, risk-return tradeoff, security pricing and valuation, and capital budgeting decision tools.

**FIN 605 FINANCIAL MANAGEMENT (1.50)**

The course provides intermediate-level coverage of topics in financial statements and their analysis, financial forecasting, security risk and pricing and capital budgeting. The course is designed to build on the basic skills acquired in introductory finance courses. Prerequisites: **FIN 505** or permission of MBA program director

**FIN 615 ENTREPRENEURIAL FINANCE (1.50)**

Provides intermediate-level coverage of topics in venture capital and private equity, asset allocation, security risk and pricing, decision-making and nonpublic corporate finance. prerequisite: FIN 605

**FIN 624 FINANCE AND ACCOUNTING ANALYTICS (3)**

This course focuses on applying cutting-edge analytics and artificial intelligence (e.g. machine learning and generative AI) techniques to examine "big data" in finance, accounting, and auditing. Students will acquire working knowledge of common financial data analytics software packages (e.g. Python, SAS, Tableau, ChatGPT and similar generative AI packages). The course will heavily emphasize using data analytics techniques in solving common finance, accounting and auditing problems through using data preparation, data visualization, and analysis techniques. Prerequisite: FIN 605

**FIN 625 CORPORATE FINANCE (1.50)**

Provides advanced-level coverage of capital budgeting and intermediate-level coverage of topics in asset pricing, capital structure, dividend policy, and derivative instruments such as options and futures. prerequisite: FIN 605

**FIN 704 FINANCIAL STATEMENT ANALYSIS (3)**

Integrates U.S. generally accepted accounting principles and International Financial Reporting Standards to develop students' understanding of financial accounting transactions, reporting standards, and their resulting impact on companies' financial statement analysis and forecasting. Topics include standard setting, financial statement presentation issues, measurement issues (including fair-value accounting) and classification and recognition issues, and their impact on financial statement analysis and forecasting. The course emphasizes the use of data analytics, data visualization, and report-writing techniques as part of financial statement analysis. Prerequisites: ACCT 505 and FIN 605

**FIN 704 FINANCIAL MARKETS AND INSTITUTIONS (3)**

Covers the theory and role of efficient financial markets in the general economy; the structure and regulation of the debt, equity and derivative markets; and the functional management of financial institutions, including commercial and investment banks, investment funds and regulatory agencies. prerequisite: FIN 605

**FIN 715 INVESTMENT ANALYSIS (3)**

Provides the theory and tools for measuring and managing the risk and return of financial instruments in the context of modern portfolio theory. A variety of stock, bond, option and other financial asset valuation techniques are presented throughout the course. The course utilizes data analytics skills in financial data analysis. Prerequisites: FIN 605.

**FIN 720 GLOBAL FINANCE (3)**

Emphasizes two aspects of global finance: 1) international capital market structure, interest rate and exchange rate determination; and 2) international corporate financial management of risk and return. Topics include: interest rate, purchasing power and international Fisher parities; hedging and management of international interest-rate and exchange-rate risk; and foreign exchange forecasting. The course utilizes data analytics skills in financial data analysis. Prerequisites: FIN 605.

**FIN 724 APPLICATIONS OF BUSINESS ANALYTICS AND MACHINE LEARNING (1.50)**

The course examines main algorithms of Supervised and Unsupervised Learning, and Reinforcement Learning, and will be able to use ML open source Python packages to design, test, and implement ML algorithms in Finance.

**FIN 725 RISK MANAGEMENT (3)**

Provides a comprehensive overview of concepts and tools of corporate risk management, including identification and measurement of value-added, risk and managing the trade-off between the two. Topics include: value-at-risk measures; application of options and futures contracts to risk management; and managing interest rate, credit and other forms of operating risk. The course utilizes financial data-processing and statistical dynamic modeling techniques as well as report writing used in financial data analytics. Prerequisite: FIN 605.

**FIN 750 REAL ESTATE INVESTMENT (3)**

An advanced course in the analysis and valuation of income-producing real property with an emphasis on data analytics. Topics include real estate cash flow analysis, internal rate of return, analysis under risk and uncertainty, appraisal techniques, alternative financing forms, market analysis and the securitization of real property and mortgages. Both theory and case analysis are employed and students will get an understanding of the value of the ARGUS real estate analysis software. Prerequisite: FIN 605

**FIN 755 REAL ESTATE FINANCE (3)**

Analyzes the instruments, techniques and institutions of real estate finance. Emphasis is placed on the sources of funds, mortgage risk analysis and typical policies and procedures used in financing residential and commercial properties, as well as the use of data analytic skills. Prerequisite: FIN 605

**FIN 760 SOCIAL ENTERPRISE AND ENTREPRENEURSHIP (3)**

This course provides a study of how successful nonprofit organizations respond to the challenges of expanding their impact, being socially responsible, fiscally accountable, and finding new sources of revenue. The course will investigate innovative ways to generate both financial and social returns on their investments. Students will engage with live social entrepreneurs to evaluate and respond to market opportunities to develop and grow social enterprises. Prerequisites: FIN 640.

**FIN 770 NEW VENTURE FINANCING (3)**

Covers financing and entrepreneurial organization from startup to initial public offering and beyond. Topics include identification and assessment of capital needs, financial planning, sources of capital and the role of venture capital, and the capital markets in financing entrepreneurial organizations. prerequisite: FIN 640 or FIN 605

**FIN 780 BUSINESS VALUATION (3)**

Business valuation arises in mergers, acquisitions, divestitures, estate taxation, lost profits litigation, buy-out agreements, commercial lending, venture capital, IPOs, and other exit strategies. This course addresses valuation modeling, using asset pricing theory and practice and employing advanced applications such as data analytics applications and tools, and corporate databases. The course material is of interest to students who envision careers as CPAs, business valuation experts, corporate finance analysts and investment bankers. Prerequisite: FIN 605.

**FIN 792 SPECIAL TOPICS IN FINANCIAL MANAGEMENT (1.50)**

Enables the presentation of specialized topics in finance, allowing flexibility for both the changing developments in finance and the educational needs of students. Topic areas may include entrepreneurial finance, cash and liquidity. Exact topics and prerequisites are posted in the University schedule of classes. May be repeated for credit as topics vary. prerequisite: FIN 640 or FIN 605

**FIN 795 GRADUATE FINANCE INTERNSHIP (3)**

Students will attain professional experience in finance and work on assigned projects within a workplace finance environment. Requirements include a work supervisor evaluation, a journal detailing the work experience, and a self-assessment of the student's Internship experience. Graduate standing and permission of instructor.

**FIN 797 SPECIAL TOPICS IN FINANCIAL MANAGEMENT (3)**

Enables the presentation of specialized topics in finance, allowing flexibility for both the changing developments in finance and the educational needs of students. Topic areas may include entrepreneurial finance, cash and liquidity. Exact topics and prerequisites are posted in the University schedule of classes. May be repeated for credit as topics vary. prerequisite: FIN 640 or FIN 605

**FIN 799 INDIVIDUAL RESEARCH (1 - 3)**

Individual research in an area of interest to the student. The expectation is that work equivalent to a regular graduate course will be completed. Formal paper(s) will be written under the supervision of a full-time faculty member. prerequisites: approval of finance instructor, department chair and academic adviser

## **FSCS: Forensic Science**

### **FSCS 201 HOW TO GET AWAY WITH MURDER (3)**

The course involves the investigation of the causes of violence through viewing primary documents and also using secondary sources. These crimes of violence are then viewed through the perspective of investigators both procedural and scientific. Literature searches and summary reports are part of the writing process associated with the course. The course will introduce students to Criminology, Criminalistics, Offender Profiling, and Crime Scene Investigation. This will prepare the student for an introduction to Criminal Justice, Police Science, and Forensic Science. [SBS]

### **FSCS 301 FORENSIC SCIENCE (3)**

Introduces students to forensic science topics, including crime scene processing, fingerprints, firearms and toolmarks, questioned documents, serology, fire and explosives, trace evidence, pathology and instrumental analysis. Lectures, demonstrations, and basic laboratory exercises are used to present the subject matter. Laboratory Fee required.

### **FSCS 307 CRIME SCENE INVESTIGATION (3)**

Focuses on the scientific techniques used to investigate different types of crime scenes, including burglaries, murders, rapes, arsons, and bombings. Students learn to recognize, identify, collect, preserve, transport, record, and process physical evidence such as body fluids, body fluid stains, items of trace evidence, tire and shoe impressions, latent fingerprints, weapons, and tools. Lab fee required.

### **FSCS 320 INTERVIEWS AND INTERROGATIONS (3)**

Covers the basic and specific techniques employed in criminal justice interviews and interrogations. Emphasizes processes including the interpretation of verbal and physical behavior. Considers legal issue and distinctions. Upon completion of the course, students are able to understand and conduct interviews and interrogations in a legal, ethical, efficient and professional manner. Prerequisite: none.

### **FSCS 325 MICROSCOPY (4)**

Provides instruction in the methods of collecting, handling, preparing, identifying, and comparing items of trace evidence. Topics include use of the stereomicroscope, compound microscope, comparison microscope, microspectrophotometer, scanning electron microscope, polarizing microscope, florescent microscope, and hot-stage microscope. These methods are demonstrated and students conduct hands-on analyses of materials using some of this equipment. Prerequisites: Biology I, Chemistry I and II, Organic Chemistry I and II, Physics I and II. Laboratory fee.

### **FSCS 337 INSTRUMENTAL ANALYSIS (4)**

The use of scientific instruments in forensic testing is the focus of this course. Lectures and laboratories cover instrumentation theory, data systems, method development, and qualitative and quantitative analytical techniques. Techniques discussed include gas chromatography (GC), liquid chromatography (LC), thin layer chromatography (TLC), ion chromatography (IC), capillary electrophoresis (CE), infrared spectrometry (IR), mass spectrometry (MS), and X-ray diffraction (XRD). Prerequisites: Biology I, Chemistry I and II, Organic Chemistry I and II, Physics I and II. Laboratory fee.

### **FSCS 354 DEATH INVESTIGATION (3)**

Death investigation explores the medical examiner and homicide investigator perspectives in cases involving human remains. Lecture topics include the cause/manner of death (i.e., sharp and blunt force trauma, thermal injuries, drowning, drug and alcohol abuse, pediatric forensics, gunshot injuries, asphyxia and motor vehicle trauma), and biochemical/physical processes associated with body decomposition. The medical, practical, and legal issues related to forensic and law enforcement investigations will be examined. Pre-requisite: FSCS 301

### **FSCS 360 FORENSIC PHOTOGRAPHY (3)**

Familiarizes students with, and provides basic understanding of, the camera (34mm, digital and video) with respect to crime scene analysis. Using photographic techniques, students will learn how to document

a crime scene and pertinent physical evidence including tire impressions, shoe prints, latent prints and blood spatter. In addition, students will explore available light, flash, flash fill and painting-by-light processes. Students will learn how to construct and maintain a photographic log and how to enter photographs into court as evidence. Students will create a portfolio of their work. Laboratory fee required.

### **FSCS 400 LABORATORY SAFETY AND QUALITY ASSURANCE (3)**

Introduces students to the various principles of safety and quality assurance in a forensic laboratory. Laboratory safety topics include OSHA standards. Material Safety Data Sheets (MSDS), workplace safety, personal protective equipment, employer liability, and employee responsibilities. Quality assurance topics include quality concepts and quality assurance principles, documentation, document control, standard operating procedures, proficiency testing, validation standards, test standards, instrument calibration, instrument maintenance, auditing principles, laboratory accreditation and analyst certification. Prerequisites: Biology I, Chemistry I and II, Organic Chemistry I and II, and Physics I and II.

### **FSCS 403 TRACE EVIDENCE (4)**

Focuses on the acquisition and analysis of trace materials commonly found in crime scenes. Laboratory fee required. prerequisites: Biology I, Chemistry I and II, Organic Chemistry I and II, Physics I and II, and FSCS 325 and FSCS 337 I.

### **FSCS 404 FIRE DEBRIS AND EXPLOSIVES ANALYSIS (4)**

Introduces fire debris analysis using gas chromatography-mass spectrometry (GC-MS) and the analysis of some low explosives using GC-MS and Fourier transform infrared spectrometry (FTIR). Laboratory fee required. Prerequisites: Biology I, Chemistry I and II, Organic Chemistry I and II, Physics I and II, FSCS 301 and FSCS 337.

### **FSCS 409 FORENSIC DRUG ANALYSIS (4)**

Introduces the scheduling of controlled substances and presents their analysis by crystal tests, color tests and instrumental techniques. prerequisites: Biology I, Chemistry I, and ii, Organic Chemistry i and II, Physics I and II, and FSCS 301 and FSCS 337. Laboratory fee required.

### **FSCS 410 FORENSIC BIOLOGY (4)**

Students will study the forensic theory and methodology for identification, collection, preservation, and examination of biological evidence, with emphasis on bodily fluids (blood, urine, semen, saliva) and nuclear/mitochondrial DNA analysis. Lecture content will be supplemented by practical experiments featuring some of the most common techniques currently employed by forensic laboratories. Pre-requisites: Biology I, Chemistry I and II, Organic Chemistry I and II, FSCS 301.

### **FSCS 412 FIREARMS/TOOL MARKS EXAMINATION (3)**

Firearms evidence is a major class of evidence developed in forensic related cases. The questions of identification, operability, and derived evidence are addressed and discussed. Related evidence such as tool mark evidence is also developed and explained. Prerequisite: none. Laboratory Fee required.

### **FSCS 418 MATHEMATICAL APPLICATIONS IN FORENSIC INVESTIGATIONS (3)**

Successful investigations often rely on careful application of mathematics. In this course, students will learn to interpret and construct graphs and tables, calculate clearance rates, and conduct trend analysis. The concepts of probability and other statistical techniques as they relate to biological evidence (e.g. DNA interpretation, blood spatter analysis) and narcotics evidence (sampling) will also be discussed.

### **FSCS 424 FOURTH AMENDMENT : INTERPRETATION AND APPLICATION (3)**

Covers the doctrines and cases inherent in and arising from the Fourth Amendment: the law of arrest, search and seizure, standing, forfeiture, and derivative evidence. Organized as a topical analysis, the course identifies the elements of each constitutional area and references major federal and state cases to illustrate the application and source of the rules.

### **FSCS 426 INNOVATIVE INVESTIGATIVE TECHNIQUES (3)**

Advanced techniques and strategies designed to further aid in investigating serious or complex crimes are presented. Particular attention is paid to the procedural aspects of police activity as they relate to the

admissibility of evidence in state and federal prosecutions. Content includes improvements to basic investigative skills and a discussion of alternative tactics. Also covered are the necessary, suggested, and explicit requirements for a federal Title III investigation and a Maryland wiretap investigation.

**FSCS 440 ADVANCED CRIME SCENE INVESTIGATION (3)**

The protection and analysis of a crime scene is a complex procedure. Information is obtained by utilizing ever increasing skills and technology. The skills involve the use of improved casting techniques, enhanced latent fingerprinting techniques and sophisticated new photographic techniques. This course introduces the student to these techniques. Lab Fee. Prerequisite: FSCS 307-Crime Scene Investigation

**FSCS 455 HOMICIDE INVESTIGATION (3)**

Analysis of homicide investigation from the viewpoint of the homicide detective exploring the legal issues and the practical use of interviews, interrogations, and medical and trace forensic evidence. prerequisite: None

**FSCS 456 CHEMISTRY OF DEATH (3)**

Explores the fate of the human body at the time of death to the decomposition of the body into the lithosphere. Study considers biochemical and physical process involved in taphonomy. prerequisites: none

**FSCS 462 INTRODUCTION TO DOCUMENT EXAMINATION (3)**

Focuses on the origins and styles of writing and materials used in writing and in the formation of documents. prerequisite: permission of the program director.

**FSCS 464 HANDWRITING ANALYSIS (3)**

Introduction to the study of hand writing analysis as relevant to the forensic analysis of documents. prerequisite: permission of program director.

**FSCS 466 INSTRUMENTAL ANALYSIS IN DOCUMENT EXAMINATION (4)**

Practical experience in using instrumental techniques to examine documents by spectral imaging and impression analysis. Laboratory fee required. prerequisites: FSCS 462, FSCS 464 and permission of the program director.

**FSCS 480 FORENSIC DOCUMENTATION (3)**

Prepares students to document and manage cases properly from inception to successful conclusion. Students gain a basic understanding of investigative and forensic case documentation.

**FSCS 482 MOOT COURT AND TRIAL ADVOCACY FOR FORENSICS (3)**

Students learn courtroom presentation techniques designed to elicit direct, persuasive, and comprehensive testimony as it relates to various evidentiary issues at criminal hearings and trials. Students prepare and present direct testimony and are cross-examined by attorneys in a simulated courtroom setting. [CAP][OC]

**FSCS 484 ART AND FORENSICS (3)**

An introduction to various styles of art and their analysis using forensic techniques. Security, storage and exhibition are examined. Laboratory fee required. Prerequisite: none

**FSCS 487 FIELD INTERNSHIP IN FORENSIC SCIENCE (3)**

Provides field experience to students through laboratory assignments with various criminal justice entities. This requirement is completed at the end of the program. Eligible for continuing studies grade.

**FSCS 493 HONORS SEMINAR (3)**

An advanced interdisciplinary seminar that focuses on important books and issues and encourages independent thinking, clear presentation and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. Prerequisites; 3.5 GPA and permission of both the Denit Honors Program director

**FSCS 494 HONORS PROJECT (3 - 6)**

Directed individual instruction in an advanced project of a student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides

his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a continuing studies grade. Prerequisites: Honors standing, 3.5 GPA and permission of both the Denit Honors Program director and the faculty director

### **FSCS 496 FIELD INTERNSHIP IN POLICE SCIENCE (3)**

Broadens the educational experience of students through appropriate observational and work assignments with criminal investigation units. This requirement is completed at the end of the program. Eligible for continuing studies grade.

### **FSCS 497 TOPICS IN FORENSICS (3)**

Examines special topics and issues in the field of forensics such as homicide investigation, blood spatter analysis, and forensic medicine and public health. Course may be repeated for credit when the topic changes.

### **FSCS 498 LABORATORY TOPICS IN FORENSICS (4)**

This course will cover special laboratory topics and issues in the field of forensics such as DNA analysis, questioned document examination, and drug analysis. FSCS 498 may be repeated for credit when the topic changes. No prerequisite unless listed in the schedule of classes.

### **FSCS 499 DIRECTED INDEPENDENT STUDY (1 - 6)**

No course description available.

### **FSCS 740 GRADUATE INTERNSHIP (3)**

Provides field experience to students through laboratory assignments with various forensic or criminal justice entities. Course is completed at the end of the program and requires submission of a journal and a research paper. Eligible for continuing studies grade. Prerequisite: Successful completion of all foundation courses in MSFS degree program and permission of program director.

## **GAHS: Global Affairs and Human Security**

### **GAHS 504 HUMAN SECURITY AND SOCIAL CHANGE (3)**

This course examines the impact of globalization on political authority, primarily focusing on the core concepts of human security. It covers topics that range from the origins of human security to applies human security concepts such as human rights, conflict and war, post-conflict construction, food security, environmental sustainability, and gender concerns. The topics are related to globalization and the cross-border flow of people, information, and ideas, which at times have exacerbated issues of human security or in other instances helped resolve many of these issues. Given its scope, the course can be understood as one that bridges globalization, human security, and global affairs.

### **GAHS 508 GLOBAL GOVERNANCE (3)**

Explores the role of international organizations, regimes, states, and non-state actors in global governance. In an increasingly globalized world where conflict, disease, financial crises, migration, and climate change cannot be solely addressed by individual states alone, cooperation and concerted efforts are necessary to address current transnational challenges. As such, this course addresses the important role global governance structures and agents, both in their informal and formal settings, play in coordinating responses to challenges faced in our current global environment.

### **GAHS 510 INTERNATIONAL MIGRATION AND HUMAN SECURITY (3)**

This course will examine international migration from the lens of human security. As such, the course will examine the causes for migration today, the role of the state and international organizations in addressing migrant populations, and the rights and responsibilities of migrants. The course will examine migration from both the perspective of the state and the perspective of the migrant.

### **GAHS 600 MANAGING NGOS (3)**

Provides an overview of the nongovernmental sector, nongovernmental organization creation and management of NGOs. The course covers how to create and manage an NGO, the legal requirements for creating an NGO, the roles and responsibilities of members of the board of directors in governing an NGO, managing staff and volunteers, fundraising, income generation possibilities and required reporting.

### **GAHS 605 INTERNATIONAL POLITICAL ECONOMY AND DEVELOPMENT (3)**

The state of the global political economy dramatically affects economic and social development. This class examines the foundations of international political economy and how we got to where we are today, before examining how international political economy affects the way in which we think about development.

### **GAHS 610 INTERNATIONAL DEVELOPMENT (3)**

Explores the theories, policies and practice of development assistance. As such, the course will enable students to develop their understanding of problems in the field of international development and examine mechanisms for how policies can aid and hinder development in practice. prerequisite: none

### **GAHS 620 SPECIAL TOPICS (3)**

Explores topics in the field of Global Affairs and Human Security. Topics vary according to student interest and faculty member specialization. Course may be repeated for credits with the topic differs.

### **GAHS 625 ATROCITIES, GENOCIDES, AND PREVENTION (3)**

This course examines the meaning of atrocities and genocides within the broader context of human security and global affairs. The topics explored in the course range from the origins of genocide and genocide-related concepts, dimensions of gender and genocide, relevant actors in atrocities, and transitional justice processes (i.e., truthseeking; criminal accountability; and reparations). In doing so, the course engages in an atrocity prevention lens that allows us to think about not only conceptual matters related to genocide but engage ourselves actively in the prevention of atrocities.

### **GAHS 630 INDEPENDENT STUDY (1 - 3)**

Research project related to studies in Global Affairs and Human Security. Topics will vary based on individual student interest. Course may be repeated with permission of program director. Students should develop a proposal outlining their chosen topic for review by instructor of record and program director. Prerequisite: Permission of program director. Credit Hours: Variable (1-3).

### **GAHS 740 GLOBAL AFFAIRS AND HUMAN SECURITY CAPSTONE (3)**

A highly interactive seminar that guides students in completing their capstone research projects and presenting their research to the broader university community. Students will prepare an analytical research paper that integrates learning from the program courses, internship experiences, and other activities pertinent to their chosen research focus and unique interests in the program.

### **GAHS 760 INTERNSHIP/FIELD PLACEMENT SEMINAR (3)**

Graduate-level seminar intended to provide an opportunity to students to integrate learning from their internship/ field placement with course themes and concepts studied in the Global Affairs and Human Security program. prerequisite: permission of the program director

## **GAME: Simulation and Game Design**

### **GAME 150 INTRODUCTION TO GAME DESIGN (3)**

Covers beginning concepts in game studies, theory and non-digital game design. Topics will be applied to the production of game and simulation development projects. Note: Additional lab time outside of class may be required to complete course projects. Lab fee required. [AH]

### **GAME 160 GRAPHICS FOR GAME DESIGN (3)**

Introduces 2-D computer graphics, including image generation, capture and processing. Particular emphasis on applications to interactive multimedia and computer game design. Provides basis for further



study in 3-D graphics. Note: Additional lab time outside of class may be required to complete course projects. Laboratory fee required.

### **GAME 250 GAME SCRIPTING (3)**

Advances a student's knowledge of game software design by examining advanced functions, variable types, software design tools and programming concepts. Expands upon materials covered in COSC150: Introduction to Game Design while also introducing students to more complex types of data and programming structures. Introduces students to the software design process and focuses on developing good software design habits as well as advanced knowledge of programming techniques. By the end of the course, students are able to implement more fully their game design ideas in a software prototype. Lab fee required Prerequisite: COSC 150 or equivalent.

### **GAME 260 INTRODUCTION TO 3D GRAPHICS (3)**

Introduces students to modeling, texturing, lighting, rendering and simple animation using industry-standard tools. Provides a foundation for further work with sophisticated 3-D imaging tools. Additional lab time outside of class may be required to complete course projects. Lab fee required. Pre or co-requisite: GAME 160, CMAT 212 or equivalent

### **GAME 315 PROGRAMMING FOR INTERACTIVE DESIGN (3)**

An introduction to object-oriented computer programming framed in the technical aspects of game programming. The course covers variables, control structures, functions, arrays, data types, classes, inheritance and polymorphisms. Students apply these concepts to build a series of small games. Laboratory fee required. Prerequisite: GAME 250 or equivalent and Simulation and Game Design major.

### **GAME 320 GAME CONCEPT AND DESIGN (3)**

An advanced exploration of the practice of game design. Students learn both game design theory and best practices to build an understanding of how gameplay is constructed and shaped. Develop practical game creation experience through rapid prototyping exercises, theoretical design problem-solving, and semester-long guided design projects. Lab fee required. Prerequisite: COSC 150 [GD]

### **GAME 324 DESIGNING FOR HUMANS (3)**

Introduces key concepts of human/computer interaction, including how humans interact with technology to find and process information. It also introduces the concepts of systematic software testing to students of applied information technology and students of interactive simulation and computer gaming. Students learn principles of interface and software construction and apply them to practical problems of software or game evaluation in the process of learning principles that underlie good interaction and play design. Readings cover theory of human/computer interaction, interaction design and usability testing. Laboratory fee required. Corequisite WRIT 300. [IL]

### **GAME 330 GAMES FOR LEARNING (3)**

Conveys the skills necessary for students to begin a career in instructional video game design. Expands on previous game design courses but focuses on the creation of serious games for adult and child learning. At the end of the course, students design, develop and test a working prototype of a video game for learning. Lab fee required. prerequisite: COSC 150 or equivalent, by permission of the program director

### **GAME 370 LEVEL DESIGN (3)**

Builds on an existing understanding of game design concepts, scripting and 3-D asset creation and provides students with the opportunity to apply this to advanced level design utilizing professional tool sets. Projects are team based and emulate industry best practices using a current 3-D game engine. lab fee required, prerequisites: COSC 150, GAME 250, and GAME 260 or their equivalents

### **GAME 380 ADVANCED TOPICS IN ART AND ANIMATION (3)**

Focuses on the development of 2D art and animation skills, and their application to real-time simulations and games. Projects creatively apply an advanced understanding of traditional 2D art and animation techniques to the creation of portfolio-quality work. Students develop a sensibility and vocabulary to

critique 2D art and animation. NOTE: Additional lab time outside of class may be required to complete course projects. Prerequisites: GAME 160 or CMAT 212.

### **GAME 390 GAME JOURNALISM (3)**

Focuses on building the reporting and writing skills needed to write game reviews and other video game-related news articles. Students regularly practice writing game-related pieces and develop their critical analysis skills through peer review; they are expected to learn through practice, peer review and review of existing published works. Topics covered include: What is journalism and how does game journalism differ? How do the elements of video games translate to written works, and how does one translate game concepts to a general reading audience? Lab fee required. prerequisite: COSC 150 and WRIT 300

### **GAME 402 INTERACTIVE NARRATIVE (3)**

Covers advanced principles of creating interactive narrative experiences, from creative writing to storyboarding and interaction design. Focuses on examples of successful and experimental interactive narrative from across media, including video games, electronic literature, interactive fiction and gamebooks. lab fee required. prerequisites: COSC 150 and WRIT 300

### **GAME 405 THE BUSINESS OF GAME DEVELOPMENT (3)**

Examines the past, present and future of the video game industry, with an emphasis on business organizations and practices that have evolved along with the medium. Particular attention is given to opportunities and requirements for new ventures in games and other areas of interactive design. Laboratory fee required.

### **GAME 407 SOCIAL MEDIA AND GAMES (3)**

Examines games and simulations as systems designed for common use and collaboration and the ways non-game social media can promote markets for digital entertainment. Theoretical approaches are compared to current implementations and tested in one or more limited practical experiments. Laboratory fee required. Prerequisites: GAME 320 and WRIT 300

### **GAME 408 HISTORY OF VIDEO GAMES (3)**

This course surveys the history of video games, from the first experiments in the decades following World War II, to the current era of consoles and network games. Despite being a relatively recent medium, video games have already undergone significant evolution from their earliest roots. We will be examining these transformations in terms of art, narrative, graphics, audio and game mechanics. Throughout the course, we will position these trends within the cultural roles games have played and speculate on the future of the form. Lab fee required. Prerequisite: COSC 150 and WRIT 300

### **GAME 410 INTERMEDIATE 3D ART AND PRODUCTION (3)**

Improves an existing understanding of 3-D modeling, texturing and animation for interactive simulation applications, including scenic and character design for computer games. Practical assignments allow students to advance skills in industry-standard programs (e.g., 3D Studio and Maya). Readings, critical examples and visits from industry experts provide broader contexts for skills. Laboratory fee required. prerequisite: GAME 260

### **GAME 415 CODING TOOLS FOR DESIGNERS (3)**

Teaches programmers to create modular tools for other team members, including non-programming game designers. Tools may consist of components, kits, macros, level editors and other augmentations for game engines. Programmers apply design knowledge to analyze and develop for a specialized set of end user needs. Through an iterative development process, students apply solid principles of user interaction design to create tools that are intuitive. Prerequisite: GAME 315

### **GAME 418 DESIGN OF MULTIPLAYER GAMES (3)**

Examines the design principles and challenges underlying games and interactive simulations designed to be used collaboratively or in situations of simultaneous use, from multiplayer console games to massively multiplayer Internet games and their associated virtual communities. Assignments include development of modules or levels for popular multiplayer games and systematic study of Internet game communities. Laboratory fee required. Prerequisite: GAME 250

### **GAME 420 ADVANCED 3D ART AND PRODUCTION (3)**

Builds on 3-D design concepts learned in COSC 260: Introduction to 3-D Graphics and COSC 410: 3-D Modeling to explore cutting-edge, industry-standard techniques for the creation of 3-D game graphics and animation. Projects focus on emerging technologies and practices and on optimization of models for real-time simulations. Students are required to apply creatively an advanced understanding of 3-D modeling to portfolio-quality work. Additional lab time outside of class may be required to complete course projects. Laboratory fee required. Prerequisite: GAME 260, GAME 410 or their equivalents

### **GAME 425 GAMES CRITICISM (3)**

An analysis and critique of the games medium, through the lens of a rotating area of focus. Students will gain a broadly foundational understanding of the theory and practice of media and arts criticism before applying that skill set in performing critical analysis of games within a selected domain (such as genres, specific creators, historical eras, etc.). Critical projects will consistently involve analytical writing, and may also include multimedia work, presentations or creative projects relevant to the course topic as well. This course will aid students in building a critical vocabulary to communicate about the games medium in an effective way.

### **GAME 430 TOPICS IN TECHNICAL ART (3)**

Revolving topics focusing on technical art skills, and their application in a team-based setting where artists collaborate with other developers. Students will learn and apply one or more skill sets such as (but not limited to) advanced rigging and skinning, scripting of shaders or 3D software extensions, designing systems for artists and animators, and integrating art assets into a game engine. Projects require the creative and technically-sound application of these skills, and work will be assessed for both aesthetic qualities and technical proficiency. NOTE: Additional lab time outside of class will be required to complete course projects. This course may be repeated for up to six credit hours when the topic changes. Lab fee required. Prerequisites: GAME 250 and GAME 260.

### **GAME 435 GAMES, CULTURE, AND SOCIETY (3)**

Explores the relationship between games, culture and society. Students will be introduced to foundational theory for understanding how the games medium participates in and influences relationships between people and their understanding of the world, before applying those theories in directed analysis of a specific domain (such as history of the medium, social media, etc.). Critical projects will involve analytical writing, and may include multimedia work, presentations or creative projects as well. This course will help students to understand the impact games have on the world at large.

### **GAME 440 FRONTIERS OF GAME DESIGN (3)**

Focuses on one or more emerging technologies or practices likely to shape the video game industry in the next three to five years. Students both investigate the history and rationale of the innovation and develop practical experiments or proofs of concept indicating possible applications. Laboratory fee required. GAME 250 or GAME 315 or equivalent, and Simulation and Game Design major.

### **GAME 445 PRACTICAL GAME PROGRAMMING (3)**

Builds upon existing knowledge students have acquired to introduce production environment programming concepts and habits. Examines common programming techniques used in a business environment, which may include program modeling, unit testing, and/or advanced programming patterns. The course will take an application-based approach to understanding the fundamental problems of working in a complex programming environment which requires teamwork and integration of code across multiple levels. Laboratory fee required. Prerequisite: GAME 315

### **GAME 450 SGD INTERNSHIP (1 - 3)**

Provides students with hands-on work experience in applied simulation and game development. Students may arrange placement with an external organization, subject to written approval by the instructor and an official of the organization. Alternatively, students may participate in an in-house project managed by the instructor. In the latter case, students attend regular class meetings as part of their project work. Students may earn up to 3 credits for this course and it may be repeated for credit. Laboratory fee required.

### **GAME 469 GAME DEVELOPMENT PROJECT I (3)**

Constitutes the first part of the capstone experience in the Simulation and Game Design major. Students work through design assignments to practice project management and team coordination. Students also research and propose individual project concepts, some of which are selected for group development as the final course project and for further work in Game Development Project II. Laboratory fee required. prerequisites: Simulation and Game Design major with senior status, GAME 320, GAME 260 and GAME 250. For those in the Coding and Development Track, GAME 315. For those in the Technical Art track, GAME 410. pre- or corequisite: COSC 155 [CAP]

### **GAME 470 GAME DEVELOPMENT PROJECT II (3)**

Provides the capstone experience for students in the Simulation and Game Design major. Working with faculty and visiting industry experts, students propose a concept for a computer game or applied interactive simulation, developing that concept over the course of the semester through several stages of specification and prototyping. Theoretical readings and critical studies of existing games provide insight and context. Final prototypes are presented publicly at the end of the course. Lab fee required. prerequisite: GAME 469 and Simulation and Game Design major with senior status. [OC] [CAP]

### **GAME 477 COMMUNITY -FOCUSED GAME DESIGN (3)**

Students collaborate with the community to build a game focused on solving a problem or addressing a community need. Possible projects can incorporate a range of digital and communication skill sets and might include physical games (card, board), alternate or augmented reality, browser-based games, simulations or other forms as appropriate to the project. Lab fee required. prerequisite: COSC 150

### **GAME 497 TOPICS IN SIMULATION AND GAME DESIGN (3)**

Intensive exploration of topics in simulation and game development of mutual interest to faculty and students. Content varies according to the current interests of faculty and students. The topic for study appears under that name in the class schedule. Course may be repeated for credit when topic changes. Laboratory fee required.

### **GAME 499 INDEPENDENT STUDY (1 - 3)**

The pursuit of independent study under the supervision of a full-time faculty member. The number of credits to be earned is determined by the supervising faculty member before the study begins. Students may earn up to 3 credits for this independent study. Laboratory fee required. prerequisite: varies; see class schedule or instructor

## **GVPP: Government and Public Policy**

### **GVPP 201 AMERICAN GOVERNMENT (3)**

This course is the basic American government course required of all government and Public Policy majors. This is an introduction to American ideology, government, and politics. The course also serves as a basic social science course available as a general elective for all undergraduate majors. Prerequisite: None. [GIK] [QQT] [SBS]

### **GVPP 210 INTRODUCTION TO INTERNATIONAL STUDIES (3)**

Introduces concepts within international studies. Students learn how history, geography, culture, politics and economics affect the approach taken by various actors in international relations. Through critical analysis, this course examines the role world politics plays in a variety of global issues and challenges. [QQT] [SBS] [GD]

### **GVPP 279 SPECIAL TOPICS IN INTERNATIONAL AFFAIRS (3)**

Exploration of topics in international affairs. Content varies depending upon the interests of faculty and students and may include studies in comparative or regional politics, international or global issues, or issues in foreign policy. Course may be repeated when topic changes. Prerequisite: Depends on course topic and level of difficulty.

### **GVPP 284 POLITICS IN COMPARATIVE PERSPECTIVE (3)**

Politics in Comparative Perspective is designed to introduce students to the study of politics and Political Science. The course covers basic concepts in Comparative Politics including ideologies, political behavior, and political institutions. These concepts are used to explore the political experiences of representative countries from the Western Democratic, Transitional, and Developing worlds. Coverage is also given to the impact of globalization on selected countries. Specific countries covered will vary with instructor. Prerequisites: None [GIK] [QQT] [SBS]

### **GVPP 297 TOPICS IN POLITICS AND POLICY (1 - 3)**

Exploration of topics in politics and policy. The actual topic of the course will appear in the schedule of classes. Prerequisite; depends on course topic and level of difficulty.

### **GVPP 300 AMERICAN POLITICAL INSTITUTIONS (3)**

The role and interrelationship of the federal, state, and local governments in the formulation and implementation of public policy are examined. Major contemporary issues are explored to illustrate the policy making process. The specific policy issues studied vary from semester to semester.

### **GVPP 315 PUBLIC POLICY ANALYSIS (3)**

Students will gain a foundation in policy analysis -the process of creating, critically assessing and communicating information to determine which of various policy alternatives will best achieve a given goal(s) within the American policy arena. Students will understand the policy process and analysis by: Defining, assessing, and describing public problems; Identifying policy goals and criteria to assess possible strategies; Crafting appropriate policy options by borrowing, adapting, and creating; Analyzing and predicting the effects of alternative policy options; and Communicating policy advice in written and oral presentations. Prerequisites: None.

### **GVPP 320 PUBLIC ADMINISTRATION (3)**

The problems of municipal, state, and federal governments as these relate to organization, budgeting, personnel, welfare, control, reporting, public relations, federal-state-local relations, the city government in society, and the division of state and federal powers.

### **GVPP 321 LEADERSHIP: AN EXPERIENTIAL APPROACH (3)**

Organized around developing leadership, this course will help students to identify goals and objectives and achieve them. This course will use adventure education and outdoor experience to support the development of personal and professional competencies for individuals interested in careers in community -serving nonprofit organizations.

### **GVPP 322 BUREAUCRACY AND PUBLIC POLICY (3)**

An understanding of the institutional political, legal, and ethical challenges of public policy management in the contemporary administrative state

### **GVPP 324 AMERICAN PUBLIC POLICY (3)**

Analysis of the formulation and implementation of governmental policies at all levels in such policy areas as art and cultural policy, economic stability, income maintenance, education, the environment, public finance, and older adult policy. Prerequisite: GVPP 300 or permission of instructor.

### **GVPP 326 URBAN POLITICS AND PUBLIC POLICY (3)**

An examination of the organization and main functions of urban government, the major participants and key issues in the urban political process, and the political relationship between cities and other levels of government. The distinctive characteristics of the political process in the urban setting with special emphasis on Baltimore.

### **GVPP 340 CONSTITUTIONAL LAW (3)**

The role of the Constitution in the American system of government. Origins and historical development of the Constitution, the theory and operation of the federal court, and the effects of Supreme Court decisions on the relationship between different branches of government and on the rights of individuals in American society.

### **GVPP 341 CIVIL LIBERTIES AND THE BILL OF RIGHTS (3)**

An advanced course about constitutional law that focuses on the Bill of Rights and issues of civil liberties that have arisen as the Supreme Court has changed its interpretation of the Constitutional basis of decisions related to those rights. The course stresses legal reasoning and research skills; it also provides information about Constitutional issues in relation to American governmental processes and policies.

Suggested prerequisite: GVPP 340.

**GVPP 344 AMERICAN PRESIDENCY (3)**

An examination of the presidency in the American system of government. The powers of and limits on the president are studied as are the relationships between the president and other major actors in the political system.

**GVPP 345 THE LEGISLATIVE PROCESS (3)**

An examination of legislatures in the American system of government. Emphasis is placed on the study of the representative function of legislatures, of the ways in which they operate, and their impact on public policy.

**GVPP 348 STATE AND LOCAL GOVERNMENT (3)**

Emphasis on the organization, powers, and functions of state, local, county, and municipal governments. Government in theory and practice at different levels in the state of Maryland.

**GVPP 360 PARTIES, CAMPAIGNS, AND ELECTIONS (3)**

A study of the rise, history, and functions of political parties in the United States. Campaign management and strategies as well as electoral tactics and movements are also examined.

**GVPP 362 MEDIA AND GOVERNMENT (3)**

A study of relationships among governments, public opinion, and the media. Analysis of the components of public opinion and their individual and collective influence on government. The functioning of the media and their influence on both government and public opinion.

**GVPP 381 AMERICAN POLITICAL THOUGHT (3)**

A study of the political thought in the United States that has provided the foundations of American democracy from colonial times to the present, focusing on political concepts, principles, ideas, and issues.

**GVPP 382 POLITICAL IDEOLOGIES (3)**

Focuses on the philosophical and ideological bases for the state. The political economy and social structure of governing ideologies are examined and illustrated in discussions about democracy, capitalism, liberalism, fascism, communism, and socialism. Challenges to these ideologies as presented by religion and nationalism are also discussed.

**GVPP 384 COMPARATIVE GOVERNMENT (3)**

An examination of the historical and social background, political process, governments, and institutions of representative foreign governments, including Great Britain, France, and Germany. The identification, comparison, and evaluation of the main components and characteristics of the governing process are examined

**GVPP 385 THEORIES OF INTERNATIONAL RELATIONS (3)**

A survey course of global events and processes. This course covers issues of war and peace, arms and armaments, international governmental and non-governmental organizations, the politics of global economic relations both amongst nations of the developed north and between northern and southern states. Humanitarian and environmental issues will also be covered. Emerging trends in globalization, terrorism, and ethnic conflict will be considered. prerequisites: GVPP and CNCM 102.

**GVPP 386 AMERICAN FOREIGN POLICY (3)**

An examination of the political, economic, and military considerations involved in the formulation and implementation of United States foreign policy. Included are the constitutional responsibilities for foreign policy, the economic context, military doctrine and the country's traditional international relationships.

**GVPP 408 METHODS IN GOVERNMENT AND PUBLIC POLICY (3)**

Focuses on research and analytical techniques, statistical measurement, and methods of science used in the study of governmental organizations, elections, political behavior, and policy analysis. [IL]

**GVPP 410 POLITICS AND RACE (3)**

Addresses race and its problems, possibilities, and limitations. Race is a critical issue in society; despite the removal of legal barriers and the guarantee of equal protection (Civil Rights Act of 1964, Voting Rights Act of 1965, Fair Housing Act of 1968), blacks and Hispanics continue to endure negative outcomes. Racism and discrimination in education, employment, health, income, and incarceration remain a part of the American social fabric. Prerequisite: none [GD]

**GVPP 423 PUBLIC BUDGETING AND PERSONNEL ADMINISTRATION (3)**

Focuses on budgeting and personnel administration at the national, state and local government levels. Examined are the form, content, and processes of public budget development, and its review, execution, and management; also examined are the principles and functions of public personnel management, salary, schedules, unions, performance evaluation, and retirement. Prerequisite: GVPP 320 or permission of the instructor.

**GVPP 425 ADMINISTRATIVE LAW AND PROCESSES (3)**

The growth of the administrative process in the United States, the necessity for the delegation of legislative authority to administrative agencies, and the need for judicial control of the bureaucracy. Emphasis on federal, as well as State of Maryland, administrative and regulatory processes.

**GVPP 426 FOUNDATIONS OF DEMOCRACY I (3)**

This course examines the scope and nature of the fundamental values that are reflected in our system of democratic governance. Democracy joins individual citizens, neighbors and communities. Acting together they form the essence of an associational life-- that is to say, a life lived with reciprocal linkages to the well-being of others and to the common good. Particular attention will be placed on the decision making and organizational design systems that characterize our social, political and economic institutions, as well as community-serving nonprofits.

**GVPP 461 MARYLAND GOVERNMENT PROCESSES AND POLITICS (3)**

A study of the structure of Maryland's three branches of government and their relationship to interest groups, political parties, and public policies.

**GVPP 463 INTEREST GROUP POLITICS AND LOBBYING (3)**

Examined within this course are interest groups as key components in the functioning of a pluralistic political system. The proliferation of interests from trade associations to the public, nonprofit interests will be documented. Also explored are the techniques of lobbying.

**GVPP 470 INDIVIDUAL RESEARCH (1 - 3)**

Individual research on a subject of mutual interest to both student and supervisory faculty. Depending on the scope and depth of research, from one to three credits may be earned for the successful completion of this course. The student may, upon approval, take up to two such courses. Prerequisite: A minimum of 12 credit hours in political science courses earned at the University of Baltimore and approval of the program director. This course may be taken for a continuing studies (CS) grade.

**GVPP 471 INDIVIDUAL RESEARCH (1 - 3)**

Individual research on a subject of mutual interest to both student and supervisory faculty. Depending on the scope and depth of research, from one to three credits may be earned for the successful completion of this course. The student may, upon approval, take up to two such courses. Prerequisite: A minimum of 12 credit hours in political science courses earned at the University of Baltimore and approval of the program director. This course may be taken for a continuing studies (CS) grade.

**GVPP 479 SPECIAL TOPICS IN INTERNATIONAL STUDIES (3)**

Selected topics in International Relations and/or Comparative Politics of mutual interest to faculty and students are examined in depth. Content varies according to the concurrent interests of faculty and students. The topic for study will appear under that name in the Schedule of Classes. Course may be repeated for credit when topic changes. Prerequisites: None

**GVPP 480 ENVIRONMENTAL POLITICS AND POLICY (3)**

Environmental politics and policy focuses on the process of public decision making as it relates to national and global environmental issues. The course will address policy making institutions and political behavior and how these have shaped American responses to such issues as clean air and water, energy use, and natural resource consumption, among others. The course will explore how agencies use risk assessment and other decision tools to establish regulatory objectives and how tax, regulatory and other policy tools are used to manage the environment. Prerequisites: None

**GVPP 481 GLOBALIZATION (3)**

This course is an examination of the rapid global changes shepherding in the 21 st Century. Students examine the social, economic and political effects of a smaller, more connected world. Global citizenship, intertwined economies, and global institutions joining nation-states as primary global actors are presented as macro-changes to national identities, economies and public policies. Prerequisites: None

**GVPP 482 TOPICS IN POLITICAL THEORY (3)**

Selected political theory examines perennial issues in political thought within the frameworks of classical, medieval, renaissance, enlightenment, and modern political theory. Course may be repeated for credit when topic changes.

**GVPP 484 INTERNATIONAL POLITICAL ECONOMY (3)**

Examination of the rapid changes in the postwar system of trade, production and finance. Students are exposed to discussions concerning the impact that these changes have presented to national identities and the public policy responses undertaken by states to maintain and enhance their position in the global trading system

**GVPP 485 THE FAR EAST IN WORLD AFFAIRS (3)**

Political, economic, and military aspects of India, Japan and Southeast Asia. Emphasis upon their - contemporary foreign relations.

**GVPP 486 THE MIDDLE EAST (3)**

Political, economic, and military aspects of Turkey, Iran, Egypt, and the other Arab states, Israel, and the eastern Mediterranean. Emphasis on foreign relations. The interrelationship of these powers and their relationships with Western European powers, Russia, the People's Republic of China, and the United States.

**GVPP 487 WESTERN EUROPE (3)**

Political, economic, and military aspects of Austria, the Benelux countries, France, Italy, and Germany. Emphasis upon their contemporary foreign relations

**GVPP 488 THE COMMONWEALTH OF INDEPENDENT STATES & CHINA IN WORLD AFFAIRS (3)**

International relations of the Commonwealth of Independent States and the People's Republic of China. An example of the political, economic, and military considerations of these two countries in the conduct of their relationships.

**GVPP 489 INTERNATIONAL ORGANIZATION (3)**

The Study of the development and evolution of International Organizations including the United Nations, regional and functional organizations, and non-governmental organizations. Course focuses on the United Nation's principal organs and specialized agencies and on major International Inter-governmental organizations. Consideration is also given to non-governmental organization as we" as informal organization. Simulation or role playing exercises or trips to the United Nations may be included at the instructor's discretion. Prerequisites: GVPP 210 or CNCM 102

**GVPP 490 INTERNSHIP (3)**

Internship designed to broaden the educational experience of the student through work assignments with appropriate governmental agencies. Depending upon the academic value of the work assignments, the student may enroll for up to a total of six credits in this internship. Prerequisites: major in government and public policy or jurisprudence, minimum of 12 credits completed in GVPP courses with a GPA of at least 3.0, and approval of the program director. This course may be taken for a continuing studies (CS) grade.



**GVPP 491 INTERNSHIP II (3)**

Internship designed to broaden the educational experience of the student through work assignments with appropriate governmental agencies. Depending upon the academic value of the work assignments, the student may enroll for up to a total of six credits in this internship. Prerequisites: major in government and public policy or jurisprudence, minimum of 12 credits completed in GVPP courses with a GPA of at least 3.0, and approval of the program director. This course may be taken for a continuing studies (CS) grade.

**GVPP 493 HONORS SEMINAR (3)**

An advanced interdisciplinary seminar that focuses on important books and issues, encourages independent thinking, clear presentation, and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. Prerequisites: 3.3 GPA and permission of the Honors Director.

**GVPP 494 HONORS PROJECT (3 - 6)**

Directed individual instruction in an advanced project of the student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a continuing studies grade. prerequisites: 3.3 GPA and permission of both the Denit Honors Program director and the faculty director.

**GVPP 497 TOPICS IN GOVERNMENT AND PUBLIC POLICY (3)**

Intensive exploration of topics in political science of mutual interest to faculty and students. Content varies according to the concurrent interests of faculty and students. The topic for study will appear under that name in the Class Schedule.

**GVPP 499 SENIOR SEMINAR (3)**

A senior-level seminar required of all government and public policy majors. Topics considered include the perspectives of the major sub-fields of government and public policy and their relations with other disciplines. Students demonstrate their abilities to analyze, assess, and write about relevant issues and practices in government and public administration. Open to non-government and public policy majors only by permission of the instructor. [CAP]

**HIST: History****HIST 101 WORLD HISTORY TO 1500 (3)**

Explores the emergence of the modern world, from prehistoric times to early modern times, through an examination of selected themes across the world's cultures. Themes may include the arts, society and religion, global interaction of cultures or competing ideas of human dignity and self-determination. Special emphasis is given to the role of deep cultural roots over the long term of historical development and the long-term effect of traditional values and cultural practices. [HIPL] [HAT] [AH] [GD]

**HIST 102 WORLD HISTORY SINCE 1500 (3)**

Explores the emergence of the modern world, from the end of the 15th century to contemporary times, through an examination of selected themes across the world's cultures. Such themes may include the arts, society and religion, global competition and human rights, technological change, nationalist movements and self-determination. Special emphasis is given to the interaction and interdependence of the world's population as a whole. [HIPL] [HAT] [AH] [GD]

**HIST 111 EARLY AMERICA (3)**

This course focuses on the history of the United States to 1860 with emphasis on large-scale social and cultural phenomena such as the origin and impact of colonial migration, the forming of regional identities, the role of political ideologies and the influence of social movements. [HIPL] [HAT] [AH]

**HIST 112 MODERN AMERICA (3)**

Focuses on the history of the United States from the 1860s to the present with emphasis on major social and cultural trends and movements. Topics include impact of race and ethnicity, rise of the New South, role of -political ideologies, reform and labor movements, and migration and immigration. The history of ordinary people is stressed. [HIPL] [HAT] [AH]

### **HIST 123 WORLD HISTORY OF ART (3)**

Student explore human creations inspired by the natural world, love and religion. Students are introduced to the iconography and the artistic connections between global cultures, including those of Africa, Asia and Europe. Incorporating the printed works of critics and historians, museum pieces, archeological evidence and electronic media, this course teaches students how to interpret an image as a primary source document, emphasizing the political, religious and urban contexts of artistic creation. [HIPL] [HAT] [AH] [GD]

### **HIST 197 CONFLICTS IN HISTORY (3)**

History is an ongoing inquiry and debate, rarely—if ever—set in stone. Introduces students to the major themes of history and the ingredients of the discipline. Presents a selection of major human conflicts of the past 3,000 years and the historical debates they have inspired. Students discover the roots and consequences of American, European or world conflicts in history, using primary sources to hear the actors in their own words. Leads to discovery that many of the problems of the past still have effects in the present. [HIPL] [HAT] [AH] [GD]

### **HIST 204 AFRICAN AMERICAN HISTORY TO 1865 (3)**

Examines African American history before 1865, including such topics as the North American slave trade, the lived experience of enslaved Blacks, the lives of free Blacks who were not enslaved and the rise of the abolition movement. [AH] [GD]

### **HIST 205 AFRICAN AMERICAN HISTORY SINCE 1865 (3)**

Examines African American history since 1865, including such topics as Reconstruction, the rise of racial segregation and legal White supremacy, Black popular culture, African Americans in all regions of the country and the Long Civil Rights and Black Power movements. [AH] [GD]

### **HIST 240 EVERYDAY LIVES (3)**

Social history illuminates the lives of ordinary people. This skills course introduces the methods of the social historian to the beginning student. Students read examples of masterful social histories and engage in original research to produce their own depictions of everyday life in a particular period of the past. [HIPL] [HAT] [AH]

### **HIST 250 DIGITAL HISTORY (3)**

Students assess the range and quality of online information about their favorite historical topic. As the projects of amateurs, curators, activists, students, and historians fill the Internet, whose version of the past can we trust? Students engage digital humanities literature and theory, case studies, and map out their topic as it appears on the Web. [AH] [IL]

### **HIST 290 GREAT ISSUES IN HISTORY (3)**

Focusing on a single topic or theme of historical and contemporary interest, this course emphasizes the roots of great issues in history. The course focuses on understanding and applying historical methods, analyzing issues in their broader historical context and analyzing a variety of historical sources. The topic for a given semester appears in the schedule of classes. [HIPL] [HAT] [AH]

### **HIST 295 THE HISTORIAN'S TOOLKIT (3)**

What constitutes historical evidence? What sources are credible? What historical context is necessary to understand information? How do you uncover evidence about past events? How do you organize information to make an historical argument? This course asks you to consider these questions as you develop historical thinking skills to investigate a person in your past. In the process you will discover ways you can employ historical research methods in a variety of professional fields. Required of all history majors. [IL]

### **HIST 306 POPULAR MUSIC IN U.S. HISTORY (3)**

Explores popular music's relationship to social, economic and cultural transformations in the United States' history, with a focus on race, gender, class and sexuality. Topics include hip-hop, jazz, Motown, disco, punk, blues, house and club music. [AH]

**HIST 308 HISTORY OF AMERICAN BUSINESS (3)**

An historical survey of American business and labor from Colonial America to the recent past. [AH]

**HIST 310 ANCIENT CIVILIZATIONS (3)**

The origins of European civilizations are traced to the societies of the Ancient Near East, Greece and Rome. Special emphasis on the development of complex societies and on such themes as the individual and society; freedom and slavery; and magic, religion and rationalism.

**HIST 312 AGE OF REVOLUTIONS (3)**

A study of European culture and thought from the Renaissance to the end of the Napoleonic Wars. Special emphasis on the origins and impact of the scientific, industrial, and political revolutions.

**HIST 313 EUROPE 1815-1914 (3)**

Surveys European history in the 19th century, a time of enormous cultural, social, economic, and political change. Focuses on the dominant powers of Europe—England, France, Germany, and Russia—and examines the impact of new ideologies such as nationalism, liberalism, socialism, and right-wing radicalism. [GD]

**HIST 314 WAR IN EUROPE, 1914-1945 (3)**

World War I destroyed the institutions and values of traditional European society and ushered in a new era of European history. This course covers the causes, experience and impacts of World War I and World War II; the rise of extremist ideologies in the interwar era; the Holocaust, and the development of modernism in European society in the years up to 1945. [HIPL][GD][AH]

**HIST 315 EUROPE SINCE 1945 (3)**

This course examines all aspects of European history since 1945, focusing on trends and issues in both western and eastern Europe. [HIPL] [HAT] [AH]

**HIST 316 BLACK EUROPE (3)**

What were the roles Black people played in Europe's modern history? Why do they remain absent from the way people characterize the continent's history? This course takes a deep dive into the stories of men and women of African descent who contributed to European politics and culture, or subverted norms, since the French revolution. Students will use biographies and autobiographies, fiction, film, and the words of historical figures themselves to discover the extraordinary agency of Black women and men who left their mark on Europe and its colonies. [AH] [GD]

**HIST 321 AMERICA SINCE 1940 (3)**

Examines the United States from 1940 to the 21st century and explores such topics as the Cold War, suburbanization, the civil rights movement, feminism, LGBT activism, the war in Vietnam, deindustrialization, the New Left, the New Right, the War on Drugs, the AIDS crisis, the War on Terror, electoral politics and more. [AH] [DP] [GA]

**HIST 324 MODERN CHINA (3)**

Introduces the changes and continuities of modern China since 1860. Students learn to apply their knowledge of Chinese history and historical methodology to analyze current affairs. Students read and analyze primary and secondary sources of modern China and engage in original research to construct their own analysis of one aspect of modern Chinese history. [HIPL] [AH] [GD]

**HIST 325 PRISONS AND POLICE IN U.S. HISTORY (3)**

Examines the history of such topics as mass incarceration, the origins of urban law enforcement, convict labor, the War on Drugs, the growth of federal law enforcement agencies and how racial inequality has shaped prisons and policing. May not be used to meet major requirements in the BS in Criminal Justice. [GD]

**HIST 326 MODERN JAPAN (3)**

Explores the historical transformation that has led to the development of modern Japan from the slow decline of the Tokugawa shogunate in the 19th century to present. Covers such topics as the fall of the Tokugawa order; Meiji Restoration and Japan's rapid modernization; the rise of Japanese imperialism and its demise through the Pacific War, and Japan's post-war development in political, economic, social and cultural realms. While developing critical-thinking and communication skills, students also learn to apply their knowledge of Japanese history to analyze an aspect of modern Japanese life. [GD] [AH]

### **HIST 328 MODERN KOREA (3)**

Introduces the making of modern Korea over the last two centuries, the tumultuous times that eventually created the two Koreas of today. Examines how Korea changed from an agricultural kingdom to two distinctive Koreas: urban, industrialized and democratic South Korea and communist North Korea. Examples of topics include: changes in Korea Confucianism; Korea's reaction to the 19th century imperialism; impacts of the Japanese colonial rule (1910-1945); establishment of two Koreas, and the two Koreas' place in the 21st century world. [GD] [AH]

### **HIST 330 IMMIGRATION AND LAW IN U.S. HISTORY (3)**

Provides a chronological overview of the history of immigration to the United States to demonstrate the centrality of immigration to U.S. history. Through examination of the key immigration and naturalization laws and their context, students will see how current discussions on immigration are deeply rooted in centuries-long legal and cultural debates about who is allowed into the country and what it means to be an American citizen. In addition, students will look at the changing immigration patterns and the historical causes and contexts that brought different groups of immigrants to the U. S. at different times, narrating the history of the global U.S.

### **HIST 340 AMERICAN LEGAL HISTORY (3)**

A general survey of the development of American law from colonial times to the present. Emphasizes the importance of social change and political conflict in legal development. Topics include the reception of English law in the colonies, the establishment of the federal court system and the struggle to modernize American law in the 19th and 20th centuries. Coursework involves the analysis of original legal documents and materials.

### **HIST 344 WORLD WAR II (3)**

A comprehensive study of the origins, events, and effects of the 20th century's second experience in total war.

### **HIST 345 POLITICS IN U.S. HISTORY (3)**

Examines lawmakers, political parties and protest movements from the United States' founding to today with a focus on such legislative developments as the Constitutional Convention, laws to both protect and limit slavery before the Civil War, the Reconstruction amendments, Progressive-era and New Deal legislation to regulate business and the social safety net, civil rights legislation of the 1960s and '70s and competing efforts to limit and expand civil rights legislation and corporate regulations from the 1980s to the 21st century [GD]

### **HIST 350 HISTORY OF U.S. FOREIGN RELATIONS (3)**

Ever since the 1890s, the foreign policy of the United States has profoundly affected the lives of its own citizens as well as that of many others around the world. This course examines major international events of the past 120 years and the way in which the United States has led and/or responded to them. It also examines different approaches in the study of U.S. foreign relations to broaden the analytical framework of the study of the field. This course, thus, helps expand students' understanding of U.S. history as well as that of the world around it. It also helps them to better understand the globalizing world in which they live, the relevance of U.S. foreign relations to their lives, and their own potential as agents of change .

\*HIST 350 course satisfies 3 credits of the history major requirement. \*\*This course is an enhanced course that fulfills the requirements of the Helen P. Denit Honors Program. [AH][GD]

### **HIST 354 HISTORY OF GERMANY (3)**

A study of Germany from unification to the present, with an emphasis on German politics, society and economics before 1933, the rise and fall of National Socialism, the division of Germany after World War II and the unification of Germany in 1990.

**HIST 360 DARWIN, MARX, NIETZSCHE AND FREUD (3)**

Examines the most controversial thinkers of the 19th century in the context of European imperialism and the Industrial Revolution. The course also brings to light the professional and political achievements of European women in the second half of the 19th century. [AH]

**HIST 364 CIVIL RIGHTS IN U.S. HISTORY (3)**

Explores how legal institutions, leaders and grass-roots movements in the United States have pursued, debated, and defined the concept of civil rights in relation to race, gender, sexuality, disability, immigration status and more. [AH] [GD]

**HIST 375 CIVIL WAR AND RECONSTRUCTION (3)**

A social and political study of the era of disunion and reunion, 1848-1877, with special emphasis on the causes of the conflict and its impact on race relations, national institutions, and the Southern states.

**HIST 380 THE CHESAPEAKE WORLD (3)**

The Chesapeake Bay is the largest estuary in America and a complex ecosystem that has served as a "protein factory" for thousands of years. The Bay's human history includes the Powhatan, the Piscataway, the Nanticoke, the first permanent English settlement in North America, and the first enslaved Africans. This course examines the environmental history of the Chesapeake, the effect of human settlement on its biodiversity, and the ways that history helps us make ethical choices about the future of the bay.

**HIST 381 AMERICAN CITIES (3)**

Urbanization as a major theme in American history, beginning with the establishment of American cities and ending with contemporary urban life. Topics include city and the frontier; the premodern city; the emergence of industrial cities; urban transportation networks; immigrants, bosses and reformers; the emergence of urban institutions; the growth of suburbia; and the urban crises of the 1960s. [AH]

**HIST 382 HISTORY OF BALTIMORE (3)**

Social and economic changes that took place in American cities. Emphasis is placed on a detailed study of Baltimore as it exemplified changes taking place during the period. Major themes are industrialization and racial and ethnic diversity. [GD]

**HIST 385 U. S. WOMEN'S HISTORY (3)**

Using case studies, this course examines the changing roles of women in American society. Topics such as family, work, education, sexuality and women's rights are explored. Emphasis is placed on both the variety of women's experiences and the evolving concerns and position of American women as a group. [AH]

**HIST 390 FILM AND HISTORY (3)**

A close study of historic events, people, and issues as interpreted and presented in visual media, primarily feature films, documentaries, or television series. Historical subject and type of media program varies from semester to semester. May be repeated for credit when the topic changes. [AH] [GD]

**HIST 391 HISTORY OF FASHION (3)**

A history of fashion, fashion designers and the global fashion system from the 19th century to the present. Topics include the iconic designers, the history of African-American fashion, fashion and gender, and how people have consumed fashion. [AH] [GD]

**HIST 396 INTRODUCTION TO PUBLIC HISTORY (3)**

A survey of the professional applications of historical analysis in settings outside academe focusing on the practice of history in museums, archives, historical societies and preservation. Guest speakers and site visits are featured. [TF]

**HIST 434 CONSTITUTIONAL HISTORY (3)**

A historical study of the background and establishment of the American Constitution and its political and social effects on American life from 1789 to the 20th century.

**HIST 438 GREAT TRIALS IN HISTORY (3)**

A study of the interplay between society and the conduct and outcome of some controversial criminal trials. With each offering of the course, some of the following trials are studied: Guiteau, Dreyfus, Casement, Sacco-Vanzetti, Scopes, Scottsboro, Hiss and Rosenberg.

**HIST 440 HISTORY OF COMMON LAW (3)**

A study of the common law of Great Britain and the United States through its development in medieval Europe and into the modern period. Both procedure and substance are emphasized. Parallels the School of Law course but is conducted at an undergraduate level. Credit earned in this course cannot be transferred to the School of Law.

**HIST 445 TOPICS IN THE HISTORY OF RELIGION (3)**

Intensive study of particular topics in the history of religion, ranging from Christianity and Judaism to Eastern religions or American religious history. Topic varies depending on the interests of the faculty and students. May be repeated for credit when the topic changes.

**HIST 460 THE COLD WAR, 1945-1990 (3)**

For almost half a century following World War II, the United States and the Soviet Union engaged each other and their respective allies in an epoch-making global confrontation known as the Cold War. This course explores the origins, evolution and effects of that conflict and its role in shaping modern history. Topics include the nuclear arms race, the series of crises involving Berlin, the U-2 affair, the Cuban missile crisis, related conflicts in Southeast Asia, détente, impact on American culture and more.

**HIST 466 HISTORY OF AFRICA (3)**

Studies in African history from early cultures to the late 19th century.

**HIST 477 TECHNOLOGY AND HISTORY (3)**

Selected topics in the cause-and-effect relationship of technological developments on societies in various historical periods.

**HIST 490 INTERNSHIP (1 - 3)**

Provides an opportunity to gain experience in the practical application of historical analysis through work assignments with the appropriate historical and related cultural agencies. The course instructor and staff at each agency supervise the student's participation. Course is eligible for a continuing studies grade. prerequisite: approval of the instructor

**HIST 492 INDEPENDENT STUDY (1 - 3)**

Provides for individual work in research. prerequisites: presentation of a research proposal to the program director and permission of the program director.

**HIST 495 SENIOR SEMINAR IN HISTORY (3)**

The HIST 495 Senior Seminar is a capstone course for history major. This seminar-style class will provide students with an opportunity to express their creativity and demonstrate their conceptual understanding of historical works-analyzing primary sources, weighing evidence, and debating historical interpretations. Students' final work can be a traditional research paper, or a project portfolio, depending on their major concentration. This 3 credit-course is one of the two core requirements. Students need to earn a C or higher to fulfill this major requirement. Prerequisite: HIST 295. [CAP]

**HIST 496 SEMINAR IN PUBLIC HISTORY (3)**

Students research and present a major project on a selected topic in public history. Projects are based on collaboration with external organizations or groups.

**HIST 497 SPECIAL TOPICS IN HISTORY (3)**

Intensive exploration of topics in history of mutual interest to faculty and students. Content varies according to the interests of the faculty and students. The topic studied appears under that name in the class schedule.

## **HSAD: Human Services**

### **HSAD 600 FUNDRAISING AND GRANT WRITING (3)**

Provides students with a through grounding in the principles and practices of fundraising and grant proposal development. Structured to mirror the process of fundraising management, the course leads students to develop either a fundraising plan or grant proposal for their own nonprofit entity or a case study of the organization. Students consider planning frameworks and a variety of conceptual tools before moving on to consider donor behavior ( the underlying psychology and sociology) and each major form of fundraising in turn. The course concludes with an examination of the critical managerial and sectoral issues impacting fundraising, such as campaign integration, benchmarking of performance , and public trust and confidence.

### **HSAD 602 HISTORY AND FOUNDATION OF HUMAN SERVICES SYSTEMS (3)**

History and foundations of human services practice. Societal factors that have fostered the evolution of human services are emphasized and basic strategies and tactics common to the delivery of human services are reviewed.

### **HSAD 603 CONTEMPORARY ISSUES IN HUMAN SERVICE ADMINISTRATION (3)**

Overview of the current status of the field of human services and the political, sociocultural and economic contexts of administration. Discussion of the conceptual and theoretical issues related to the practical skills necessary for administering human services agencies. Offered at Coppin State University. prerequisite: HSAD 602 or permission of instructor

### **HSAD 610 STRATEGIES FOR HUMAN SERVICES PROGRAM PLANNING (3)**

Focuses on the various properties and implications of planned change. Emphasis on models, strategies and roles required when working within organizations and in the community to develop new programs with input from a variety of stakeholders.

### **HSAD 611 PROGRAM EVALUATION AND POLICY ANALYSIS (3)**

Study of the conceptual and methodological issues concerning the evaluation of human services programs. Includes focus on statistical and data analysis skills and on the relationships between the program/policy design and analysis/evaluation. Offered at Coppin State University. prerequisite: HSAD 610 or permission of instructor

### **HSAD 620 HUMAN SERVICES LEADERSHIP & SUPERVISION (3)**

Theoretical and practical analysis of organizational leadership, personnel (employee and volunteer) supervision, workplace design and the ethical dimension of leadership in human services agencies. Provides training in organizational relationships and staff development. Job-related case studies are used to apply principles of supervision and leadership. Offered at Coppin State University.

### **HSAD 621 ADMINISTRATIVE DECISION-MAKING IN HUMAN SERVICE AGENCIES (3)**

Decision-making at the individual, work group, departmental and organizational levels within the context of human services agencies. Emphasizes development of skills necessary for securing consistency of practice, the coordination of various planning units and the economizing of planning efforts. prerequisite: HSAD 620 or permission of instructor

### **HSAD 695 FIELD PRACTICUM I: HUMAN SERVICES ADMINISTRATION (3)**

Fieldwork training experience at a human services agency under the guidance of the UB and Coppin State program directors and an on-site agency mentor. Eligible for continuing studies grade. prerequisites: HSAD 620 or permission of program directors.

### **HSAD 696 FIELD PRACTICUM II: HUMAN SERVICES ADMINISTRATION (3)**

Continuation of HSAD 695. Fieldwork training experience at a human services agency under the guidance of the UB and CSU program directors and an on-site agency mentor. Eligible for continuing studies grade. Offered at Coppin State University. prerequisites: HSAD 695 and permission of program directors

### **HSAD 698 RESEARCH PRACTICUM I: PROGRAM PLANNING, IMPLEMENTATION, EVALUATION (3)**

Under the guidance of the program directors and a research committee, the student prepares an original work that displays research and writing skills. Topics include a realistic, feasible plan for a new human services program, implementation of a new program and/or evaluation of a program. Eligible for continuing studies grade. Offered at Coppin State University. prerequisite: permission of program directors

### **HSAD 699 RESEARCH PRACTICUM II: PROGRAM PLANNING, IMPLEMENTATION, EVALUATION (3)**

The student continues to prepare the original work begun in HSAD 698 and will then formally defend the work before his/her research committee. prerequisite: HSAD 698

## **HSER: Human Services Administration**

### **HSER 100 INTRODUCTION TO HUMAN SERVICES (3)**

The social basis for human service needs is examined with special consideration given to how societies respond to these needs through the formation of service delivery systems. Case studies of contemporary human service delivery systems are emphasized. [SBS]

### **HSER 200 MODELS OF EFFECTIVE HELPING (3)**

This course provides the student with an overview of contemporary theories and techniques of the helping relationship. Basic communication skills (such as active listening, responding and interviewing skills) for building helping relationships are developed. Professional and ethical issues in the helping profession as it relates to Human Services will all be investigated. Prerequisite: None

### **HSER 297 ISSUES IN HUMAN SERVICES ADMINISTRATION (3)**

Exploration of topics in human services administration. Content varies depending upon the interests of faculty and students. Course may be repeated when topic changes. Prerequisite; Depends on course topic and level of difficulty.

### **HSER 300 GRASS ROOTS STRATEGIES OF SOCIAL CHANGE IN HUMAN SERVICES (3)**

Exploration of various frameworks concerned with strategies and techniques for planned social change relevant to community education, empowerment, organization and development, at the grass roots level. prerequisite: None

### **HSER 310 FAMILY SYSTEM DYNAMICS (3)**

Examines the components of family structure, interactions and reinforcing aspects of family dynamics on the maintenance of roles, types of families, life-span changes, function and dysfunction in the context of the greater society. Prerequisite: None

### **HSER 320 GENDER AND THE WORK ENVIRONMENT (3)**

Examines work environment and profession-related gender issues from legal, sociological, psychological and economic viewpoints. Topics may include gender stereotyping, career development, sexual harassment and work-life balance. Explores practices and process that embed gender into institutional structures. Prerequisite: None

### **HSER 330 HUMAN SERVICES DELIVERY SYSTEMS AND DIVERSITY (3)**

Examines various issues in the context of human services delivery systems within organizational environments possessing many levels of diversity including gender, race, religion/spirituality, types of professions/ credentials, levels of education, socioeconomic status, sexual orientation and physical ability. Explores how one's own limitations, values, reaction patterns and culture may impact policies, practices, processes and interventions. Investigates perspectives of leadership, employees and service recipients. Prerequisite: None [GD]

### **HSER 340 CASE MANAGEMENT AND DOCUMENTATION (3)**



This course serves as an introduction to the concept of case management toward the delivery of human services. The course will be presented in the logical sequence, from the intake interview to the termination of service. A focus will be given to assessment, planning, and implementation of case management services. The case management process will be explored as it relates to organizational, legal and ethical issues. Emphasis will be given to the skills and knowledge-base required to be an effective case manager. Pre-requisite : None

### **HSER 360 SOCIAL POLICY AND THE AMERICAN POLICY PROCESS (3)**

This course offers an examination of social policy issues (such as poverty, homelessness, and mental illness), as well as the American policy process and the significance of social, economic, and political factors that influence policymaking and implementation related to human services. This course considers policies at all levels of local and national interest, including agency policies, local ordinances, state and federal legislation, and global treaties, etc. Through the course, students will gain both an understanding of social policy formation, realities of current social policy and administration, as well as their role in human service delivery in effecting social policy change in their agencies, communities, and the world. This course will give students the necessary contextual background to understand the foundational social policies that guide and define human services, as well as how those policies come to be. prerequisite: none

### **HSER 370 COMMUNITY SUBSTANCE ABUSE (3)**

This course will provide students with an overview of substance use disorders and addiction using a biopsychosocial approach. Students will learn about the major drug classes and the effects of various substances on individuals, families, and society. The course is also designed to examine the epidemiology of substance use and addiction, as well as the psychological and physiological components of addiction and major theoretical frameworks. In addition, modalities for diagnosis, treatment, and prevention will be discussed, as well as the social inequalities associated with substance use and addiction (e.g. racial/ethnic groups, social class, etc.) and its influence on public policy. (Prerequisites: HSER 100, HSER 200, WRIT 300, HSER 340)

### **HSER 372 SOCIAL PROBLEMS (3)**

This course provides students with an overview of "social problems" in the United States, how they are constructed within our society and why they persist despite current laws and policies. Students learn about historical influences contributing to contemporary social problems and how they affect specific social groups. Various theoretical perspectives are discussed to assist students in building upon existing knowledge and experiences to analyze social problems in new ways. Topics such as economic inequality (poverty and race), drug abuse and incarceration, police brutality (race and policing), mass shootings, gender violence, obesity (poverty and food deserts), cyberbullying and suicide, and mental illness are discussed.

### **HSER 373 COMMUNITY MENTAL HEALTH (3)**

This course is designed to provide students with a distinct understanding of mental health and mental illness, in addition to risk and protective factors associated with these concepts. Students will examine mental health across the life span and common mental health issues affecting individuals, families, and communities. Topics include the etiology and stigma of mental illness, societal, cultural, and environmental influences on mental health, and trends in the delivery of mental health services, inclusive of mental health treatment, prevention, and promotion. Prerequisites: HSER 100, HSER 200, WRIT 300, HSER 340.

### **HSER 375 ADOLESCENTS IN THE 21ST CENTURY (3)**

This course is designed to prepare students interested in working with adolescents with an in-depth understanding of adolescent development. Adolescence is characterized by significant physical, cognitive, emotional, and social changes; therefore, students will examine the evolution of adolescents across various contexts, including school, family, and peers. In addition, several adolescent development theories will be explored, as well as cultural differences among adolescents. Additional topics include

puberty, identity development, sexuality, dating, common psychosocial problems (e.g., substance use, delinquency, mental disorders) and the implications of social media use on the development of 21st century adolescents.

### **HSER 378 PROFESSIONAL ETHICS IN HUMAN SERVICES ADMINISTRATION (3)**

This course explores the roles, functions and legal/ethical responsibilities of human services workers, including the process of ethical decision-making and awareness of the moral and legal complexities in the field of human services. Special emphasis will be placed on local and state regulations for licensed practitioners.

### **HSER 400 FIELD PRACTICUM FOR HSER (3)**

This course is designed to provide students the opportunity to apply the knowledge gained in the classroom in a human service based organization setting. Interns will be exposed to and or engage in activities such as supervisory opportunities, special projects, case management, budgeting, and public relations. The intern must complete a minimum of 100 hours. Both the faculty internship coordinator and agency site supervisor will guide and evaluate the intern throughout the internship. Prerequisite: HSER 100 AND HSER 200 AND HSER 340

### **HSER 410 ETHICS AND EMPATHY FOR PUBLIC SERVANTS (3)**

Explores the role of ethics and empathy in the work of public servants, with a goal of preparing students for careers in public service. Relying on novels, short stories, films, television and other stories, this course provides students case examples of scenarios where ethics and empathy are relevant and/or missing. Through the course, students have the opportunity to explore the challenges, benefits, and opportunities associated with ethical and empathetic service delivery. prerequisites: none

### **HSER 420 PROGRAM DESIGN AND PROPOSAL WRITING (3)**

This course builds on the ecological systems perspective that views program development as an arena for social change. The course illuminates how values needs and resources influence program design and decision-making. As a major practice strategy used in community development, Program design and Proposal writing offers a contingency framework that teaches students about the choices, decisions and situations for planning new or adapting programs within the context of diverse communities. It sharpens the skill set necessary for program development within the context of quality improvement and quality management. Prerequisite: HSER 100 and HSER 200

### **HSER 430 FUNDRAISING AND GRANT WRITING (3)**

The course will provide students with a thorough grounding in the principles and practice of fundraising and grant proposal development. The course is structured to mirror the process of fundraising management and by the end of the program participants will have developed a fundraising plan or a grant proposal for their own nonprofit, or a case study of the organization . We consider planning frameworks and a variety of conceptual tools before moving on to consider donor behavior ( the underlying psychology and sociology ) and each major form of fundraising in turn. The course will then conclude with an examination of the critical managerial and sectoral issues impacting on the fundraising function, such as campaign integration, benchmarking of performance and public trust and confidence Pre-requisite : HSER 100 and HSER 200

### **HSER 440 EVALUATION OF HUMAN SERVICES PROGRAMS (3)**

The purpose of this course is to provide you with a conceptual framework, sets of practical skills and related understandings about the planning and evaluation of human services programs not only in educational but in a range of human services settings. Within this context, a program is considered in a broad sense as a set of resources organized for a purpose, while a human service is considered as work or activity intended to benefit others. Pre-requisite: HSER 100 and HSER 200.

### **HSER 450 HUMAN SERVICES MANAGEMENT (3)**

This course is designed to assist students with exploring management and administrative roles in human services organizations. Students will be introduced to relevant theories, concepts, and practices that are the foundation to understanding management. Students will examine common concerns, problems, and

effective strategies of present day management of human services organizations at the non-profit, local, state, and federal levels. Prerequisite: HSER 101 AND HSER 200

### **HSER 453 SOCIAL RESEARCH METHODS (3)**

An analysis of principal research methods employed in the applied social sciences with particular emphasis on applications for human services. Topics include research design, data collection and data analysis. Practical applications are required through student projects. [IL]

### **HSER 470 SENIOR SEMINAR IN HUMAN SERVICES (3)**

A senior-level seminar consisting of an extensive exploration of current topics in human services of mutual interest to faculty and students. Examples of the content may include welfare reform, political and social legislation as well as policy and program issues. prerequisite: senior-level standing [CAP]

## **HSMG: Health Systems Management**

### **HSMG 300 HEALTH INDICATORS (3)**

A basic introduction to classical approaches typically used to describe population health. Emphasizes appropriate summaries and methods of health utilization data display in tables and in graphs. Use of rates, ratios and proportions are addressed. Introduces basic data management, exploratory data analysis and report generation. Students gain hands-on experience in use of computer applications such as spreadsheets, statistical packages and data base management while becoming acquainted with useful health data sources. (Recommended EXCEL workshop) (Required for Cohort 12). [IL]

### **HSMG 301 INTRODUCTION TO HEALTH ECONOMICS (3)**

This is a survey course of the major topics in health economics. The student should develop an appreciation of the contribution economics makes to the study of health and health policy. Topics to be covered include the demand for health and healthcare, workforce issues, and the organization and financing of the US healthcare system.

### **HSMG 302 STATISTICS FOR HEALTH MANAGEMENT (3)**

An introduction to the purposes and practices of statistical analysis in the health management sector. Students evaluate data analysis as presented in health management literature. Students also learn to distinguish between information based upon speculation, intuition and wishful thinking and that based upon systematic analysis of data. prerequisite: none

### **HSMG 303 HEALTH FINANCE (3)**

Offer a current approach to the fundamentals of budgeting and financial management with an emphasis on health-care organizations. prerequisites: none

### **HSMG 370 OVERVIEW OF HEALTH CARE DELIVERY SYSTEM (3)**

Provides a systematic overview of the U.S. health services system in order to familiarize the student with various mechanisms through which health services are delivered. Systems approach assists students in studying details of the various topics while maintaining a broad perspective of health care delivery.

### **HSMG 371 PRINCIPLES OF HEALTH CARE MANAGEMENT I (3)**

Provides an understanding of the conceptual foundations and practices of management within health services organizations. Presents an overview of the structure, operation and management of health services organizations is presented. Perspectives from organizational theory and general management provide a conceptual basis for understanding and analyzing the practice of management in health service organizations. Uses the case study approach to develop management skills through the analysis of health care industry examples.

### **HSMG 372 PRINCIPLES OF HEALTH CARE MANAGEMENT II (3)**

Provides an understanding of the conceptual foundations and practices of management within health services organizations. Perspectives from organizational theory and general management provide a conceptual basis for understanding and analyzing the practice of management in health care

organizations. Uses case study approach is used to develop management skills through the analysis of health care industry examples. Examines principles of management in health service organizations, specifically focusing on health professional accreditation, licensure, personnel issues, labor relations and select issues in material handling particular to health services organizations. Prerequisites: HSMG 371.

### **HSMG 373 HEALTH POLICY AND POLITICS (3)**

An in-depth study of a number of current policy issues in the American health care system. Particular attention is paid to the roles and powers of non-medical participants, including consumers, planners, administrators, and policy makers. (Prerequisite HSMG 370 & recommended 371 & 372)

### **HSMG 376 QUANTITATIVE METHODS FOR HEALTHCARE MANAGERS (3)**

Provides quantitative tools and skills that apply to the decision-making and control systems in the practice of health systems management. This is the second of two sequenced courses designed to develop quantitative competencies. This course builds on the first course to develop systems-based spreadsheet modeling competencies that include good spreadsheet modeling practices, forecasting, facility layout, quality control, project management and inventory methods. prerequisite: satisfactory completion of HSMG 302

### **HSMG 378 INTRODUCTION TO GLOBAL HEALTH (3)**

This course provides an introduction to important global health issues, including health determinants and key areas of disease burden, and the role that new health technologies can play in solving these problems. Students will examine case studies of successful global health interventions to understand features of successful programs. Working in small groups, students will use their knowledge to design a solution to a real world health challenge facing a developing country. Prerequisites: None [GD]

### **HSMG 379 HEALTH INFORMATION SYSTEMS (3)**

This course provides future healthcare managers with an overview of health information systems. Students will gain an understanding the selection and use of information systems and review applications of information technology in healthcare. The course will review the current trends in information technology and describe how information systems can support high-quality patient care. Pre-requisite: None

### **HSMG 470 INDIVIDUAL RESEARCH (3)**

Individual research on an academically sound project of interest in the health systems management field. Research is to be conducted in consultation with a monitoring faculty member. prerequisite: permission of the program director.

### **HSMG 471 SPECIAL TOPICS IN HEALTH SYSTEMS MANAGEMENT (3)**

This course will cover specific topics, issues and trends in health management. Prerequisite: None

### **HSMG 472 INTRODUCTION TO QUALITY PERFORMANCE AND IMPROVEMENT IN HEALTHCARE (3)**

This course offers an introduction to quality improvement and patient safety theories, models, methods and tools and their application to management in health care settings. This course focuses on the application of change processes that are critical to improving health quality by integrating theory and implementation. Specific content areas include the role of systems assessment and measurement as being fundamental to quality improvement. The student will explore the current forces driving the push toward quality outcomes and accountability at all levels and settings of healthcare, while focusing on the philosophy of continuous improvement through team work and collaboration.

### **HSMG 477 HEALTH CARE LAW AND RISK MANAGEMENT (3)**

A study of the major legal issues encountered in the health care field by administrators and practitioners. Topics include issues of health care need, cost and quality control, Medicare and Medicaid, access to health care, the business roles of health institutions, health care contracts and claims, right to treatment, and federal health plans vs. private health coverage. (Prerequisite HSMG 370)

### **HSMG 490 SURVEY RESEARCH AND DATA ANALYSIS FOR HEALTH SVCS ADMINISTRATION (3)**

This hands-on course provides an overview of typical data analysis methods used in the health services setting, with an emphasis on surveys, including statistical analysis used for health management decision-making. Reviews typical graphical displays of data used in quality assurance programs. Basic PC applications necessary for health managers such as spreadsheets and databases are introduced.

Prerequisites: HSMG 302.

### **HSMG 491 HEALTH PLANNING AND PROGRAM EVALUATION (3)**

Enriches students' understanding of the complexity of the planning and evaluation processes used by health-care organizations. Covers theoretical and historical foundations of health planning, the relationship between health planning and regulation and the application of planning methods. Also presents various planning and evaluation models and techniques necessary to equip students with practical evaluation and planning skills.

### **HSMG 492 INTERNSHIP (3)**

The internship serves as a bridge between theory and practice. Students apply their knowledge and acquire insights into the management of health service organizations. This practicum offers opportunities for observation, participation, and applying administrative skills in the institutional setting. prerequisites: WRIT 300, HSMG 303, 376, 472, and 477.

### **HSMG 493 HONORS SEMINAR (3)**

An advanced interdisciplinary seminar that focuses on important books and issues and encourages independent thinking, clear presentation and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. prerequisites: 3.3 GPA and permission of the Denit Honors program director

### **HSMG 494 HONORS PROJECT (3 - 6)**

Directed individual instruction in an advanced project of the student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a CS grade. Prerequisite: Honors standing, a 3.5 gpa. and permission of both the Honors Program Director and the faculty director.

### **HSMG 498 STRATEGIC MANAGEMENT IN HEALTH CARE (3)**

Examines strategic management in health care organizations. Includes discussions of the nature of strategic management, the environment of health organizations and methods of formulating, implementing and controlling the strategic management of health care delivery. (Capstone (Final) course) Prerequisite: Successful completion (C grade or better) of WRIT 300, HSMG 303, 376, 472, and 477.

[CAP] [OC]

### **HSMG 630 THE LEGAL ENVIRONMENT OF HEALTH CARE MANAGEMENT (3)**

Provides a framework for understanding the legal implications of advancing medical technologies and of new forms for health-services financing and delivery systems. Prerequisite: HSMG 750 - Healthcare Delivery Systems.

### **HSMG 632 QUANTITATIVE TOOLS FOR HEALTH SYSTEMS MANAGEMENT I (3)**

Provides a broad overview of biostatistical methods, concepts and reasoning as applied to decisions in health systems management. Pre-Req: Certification of intermediate level in Excel; or satisfactory completion of the spreadsheet module offered in the HSMG program at UB.

### **HSMG 650 QUANTITATIVE TOOLS FOR HEALTH SYSTEMS MANAGEMENT II (3)**

Provides an operational understanding of quantitative models to support resource allocation decisions. Students develop an understanding of the process of quantitative modeling; learn to identify appropriate and inappropriate applications of techniques such as linear programming, forecasting, decisions analysis, scheduling and inventory control models; develop a conceptual as well as a computational understanding of these models; and critically evaluate a published operations research application. prerequisite: HSMG 632

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**HSMG 651 SURVEY RESEARCH & DATA ANALYSIS FOR HEALTH ADMINISTRATORS (3)**

This course is designed to provide hands-on experience using data analytic methods that are typically used in health care settings. The course emphasizes surveys and their application to managerial decisions.

**HSMG 660 COMPARATIVE GLOBAL HEALTH AND HUMAN SECURITY (3)**

Examines the social, economic and political determinants of a nation's health-care infrastructure; variations in national capacities and defacto national priorities; the role(s) played by international organizations and initiatives; how wide and persistent disparities influence human security; and the effects that shocks such as regime change or political upheaval, conflict or widespread human rights violations have on health and human security. In addition to basic sanitation (potable water and managing human waste), access to medicines is emphasized as a fundamental need. Prerequisite: None

**HSMG 691 HEALTH PLANNING & PROGRAM EVALUATION (3)**

Explains the theoretical and historical foundations of health planning, the relationship between health planning and regulation and the application of planning methods.

**HSMG 695 HEALTH CARE MANAGEMENT INFORMATION SYSTEMS (3)**

Provides an extensive overview of information systems in health-care organizations from the perspective of health systems managers.

**HSMG 697 PRIVATE HEALTH INSURANCE, PUBLIC PROGRAMS, AND THE UNINSURED (3)**

Provides an operational understanding of insurance and alternate payment methods in health care. Includes topics relating to private health insurance, public programs (including Medicare, Medicaid and military healthcare), disparities in health insurance and access to healthcare. This includes the roles of government, employers and individuals in the selection and use of insurance products for health care.

**HSMG 698 HEALTH CARE FRAUD AND DETECTION ANALYSIS (3)**

Designed to familiarize students with the working of major federal health programs such as Medicare, Medicaid, and the Children's Health Insurance Program. Identifies patterns of improper and fraudulent payments to providers in these programs, describes the forensic investigative techniques needed to uncover fraudulent financial transactions such as payments, and examines the means to recover payments and to reduce future fraudulent practices. Prerequisites: None.

**HSMG 699 HEALTH FINANCE AND ECONOMICS (3)**

HSMG 699 Health Finance and Economics focuses on the various health insurance and reimbursement methods. Students will learn the logistics of financial statements, cost allocation intricacies of organizational, departmental and service line costing, profit analysis, pricing, budgeting and time value of money. The course will include spreadsheet case studies in accordance with the above concepts. It relies heavily on proficiencies of excel spreadsheet competencies. Conclusively, students will learn the market forces of supply/demand and its applications to healthcare efficiencies and equities. Pre-requisite: HSMG 632.

**HSMG 702 SPECIAL ANALYSIS OF HEALTH CARE FRAUD (3)**

Provides a full understanding of major health-care fraud investigations conducted by the U.S. Department of Health and Human Services, Office of the Inspector General, and the U.S. Department of Justice Criminal Division. Students study the structure and operation of the Office of the Inspector General and its annual audit activities related to specific health-care programs as well as relevant reports issued by the General Accountability Office pertaining to health-care program improvements that could mitigate health-care fraud. Prerequisite: HSMG 698.

**HSMG 709 INDIVIDUAL RESEARCH (1 - 4)**

Individual research on an academically sound project of interest to the student in consultation with a monitoring faculty member. Depending on the scope and depth of research, from 1 to 4 credits may be earned for successful completion of this course. prerequisite: permission of program director and monitoring faculty member

**HSMG 711 SPECIAL TOPICS IN HEALTH SYSTEMS MANAGEMENT (3)**

This course will cover specific topics, issues and trends in health management that would be of mutual interest to faculty and students alike. Prerequisite: None

**HSMG 725 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE AND SYSTEMS (3)**

Provides students with foundational knowledge in both geographic information science and Systems that will allow them to better understand and think critically about the role of "place and space" and to engage in the routine use of basic GIS technology in their studies and workplace. Students will learn to use ESRI's ArcGIS to create maps and analyze geo-data and relationships, and to present their results to others. prerequisite: none

**HSMG 750 HEALTHCARE DELIVERY SYSTEMS (3)**

This course broadly surveys the organization, financing, and delivery of health services in the U.S. An examination of policy and regulations in terms of their impact on the delivery of health services are also examined. Comparisons to other national systems will be discussed to better understand the complexity of the American health system.

**HSMG 751 LONG-TERM CARE ADMINISTRATION (3)**

Provides an in-depth knowledge of various long-term care facilities and the relevant administration entities involved. It is the study of the functions of a long-term care facility and its organizational management. It will also discuss the history of long-term care administration and its accreditation entities. prerequisites: none.

**HSMG 752 INTERNSHIP (3)**

Serves to build a bridge between theory and practice. Students have the opportunity to apply their knowledge and acquire insights into the management of health service organizations. prerequisite: completion of 27 graduate credits prior to beginning course or permission of program director, and successful completion of HSMG 630, 632, 650, 699, 750, 755 and 766.

**HSMG 753 POLICY ISSUES IN HEALTH CARE (3)**

Study of a few current policy issues in the American health-care system. Particular attention to the roles and powers of nonmedical participants, including consumers, planners, administrators and policymakers.

**HSMG 755 QUALITY MANAGEMENT AND PERFORMANCE IMPROVEMENT FOR HEALTH ADMINISTRATORS (3)**

This course focuses on quality improvement and patient safety theories, models, methods and tools in healthcare settings. Content areas include systems assessment and measurement as they relate to quality improvement. The course also explores quality outcomes and accountability at all levels and settings of healthcare and focuses on continuous improvement related to the delivery of healthcare services. Pre-requisites: HSMG 632 and HSMG 750.

**HSMG 757 CAPSTONE: STRATEGIC MANAGEMENT AND OPERATIONS FOR HEALTH ADMINISTRATORS (3)**

This is an integrative capstone course that provides a comprehensive look at health care organizations applying the fundamentals of finance and economics, quality management, policy analysis, quantitative analysis, health law and contemporary management practices of healthcare organizations. Pre-requisites: HSMG 630, HSMG 632, HSMG 650, HSMG 699, HSMG 750, HSMG 755, HSMG 766.

**HSMG 766 HUMAN RESOURCES MANAGEMENT AND ORGANIZATIONAL BEHAVIOR FOR HEALTH ADMINISTRATORS (3)**

This course provides an in-depth examination of evidenced-based practices related to managing human resources that include: personal and interpersonal communication, group process and leadership, organizational behavior and change. Pre-Requisites: HSMG 750.

**IDIA: Interaction Design and Information Architecture**

**IDIA 602 GRAPHIC DESIGN PRINCIPLES (3)**

Emphasizes strategies for visual problem-solving and techniques for creating comprehensive layouts using principles of design and typography. Hands-on course for students with a limited background in graphic design. Pass/fail grading. Lab fee required.

**IDIA 612 INTERACTION DESIGN (3)**

Explores electronic environments as fluid spaces where interactions among people, machines and media (words, images, sounds, video, animations, simulations) must be structured for the unforeseen. The course focuses on planning, analyzing, prototyping and integrating interaction design with interface design. Lab fee required. Prerequisite: PBDS 501 or passing score on HTML Proficiency Exam.

**IDIA 614 SEQUENTIAL VISUALIZATION AND ANALYSIS (3)**

Teaches students to use sequential visual narratives—storyboards, flowcharts, prototypes and simulations—as analysis tools for the development of information systems. The course draws on theoretical approaches to film as well as other forms of visual storytelling, including animation, illustration and comics. Through a series of practical, analytical and creative projects, students learn to apply storyboards and limited multimedia prototypes to interface design and develop content. Lab fee required.

**IDIA 616 DESIGNING FOR MOBILE WEB (3)**

Hands-on application and site development for the mobile Web. Students learn current programming languages and development environments for the latest mobile devices and work intensively on a major mobile design project. Lab fee required. prerequisite: PBDS 501 or passing score on the HTML Proficiency Exam

**IDIA 618 DYNAMIC WEB SITES (3)**

Familiarizes students with the basic concepts and vocabulary of website programming, including application scripting, and database management. Provides students with the fundamental skills required to develop and maintain a dynamic, data-driven website. Each student develops a complete website using a simple text editor to create and manipulate relational data, learn a middleware markup language to store and retrieve data and control the rules of interaction, and write HTML to format data and control display. Lab fee required. Prerequisite: PBDS 501 or passing score on HTML Proficiency Exam.

**IDIA 619 PROGRAMMING FOR UX DESIGN (3)**

Practical and theoretical introduction to genres, strategies and techniques for producing client-side interactive projects for the Internet. Students use a scripting language to create interactive information tools such as games, simulations and dynamic websites. Background readings provide theoretical and practical context for development of individual projects. Lab fee required. Prerequisite: PBDS 501 or passing score on HTML Proficiency Exam.

**IDIA 630 INFORMATION ARCHITECTURE (3)**

Students develop recommendations for site structure, navigation, labeling, metadata, and content strategy for a specific business model, audience, and context. Students base their recommendations on user research, requirements gathering, competitive analysis, and site analysis, including accessibility analysis. Lab fee required. Prerequisite: PBDS 501 or passing score on a specified equivalent HTML proficiency exam.

**IDIA 640 HUMANS, COMPUTERS, AND COGNITION (3)**

Introduces concepts, theories and methods that support the study of human-computer interaction and user-centered system design. Students apply concepts from cognitive psychology and visual processing to explore human problem-solving, learning, knowledge representation, and problems of interface design. Prepares students to understand and analyze research based on empirical study of human behavior in its variety and complexity and on models of learning and understanding. Lab fee required.

**IDIA 642 APPLIED USER RESEARCH FOR UX (3)**

Introduces the chief methods for studying users' interactions with software and information resources in ways that support design decisions. Encompasses both quantitative and qualitative methods, including methods such as surveys, focus groups, field studies, and traditional usability studies. Lab fee required.

**IDIA 712 TOPICS IN ADV INTERACTION DESIGN (3)**



Intensive exploration of topics in advanced interaction design of mutual interest to students and faculty. Content varies according to the concurrent interests of faculty and students. Course may be repeated for credit when topic changes. Lab fee required. prerequisite: PBDS 501 or passing score on the hypermedia proficiency exam.

**IDIA 715 MANAGING UX PROJECTS (3)**

Introduces students to managing projects that deal with interaction design, user research, and information architecture. Through project-based assignments, students learn how to scope, manage, and organize user experience teams. Lab fee required.

**IDIA 730 TOPICS IN ADVANCED INFORMATION ARCHITECTURE (3)**

Intensive exploration of topics in advanced information architecture of mutual interest to students and faculty. Content varies according to the concurrent interests of faculty and students. Course may be repeated for credit when topic changes. Lab fee required. Prerequisite: PBDS 501 or passing score on the hypermedia proficiency exam, and IDIA 630.

**IDIA 740 TOPICS IN COMPUTERS AND COGNITION (3)**

Intensive exploration of topics in human/computer interaction and cognition of mutual interest to students and faculty. Content varies depending on the interests of faculty and students. Course may be repeated for credit when topic changes. Lab fee required. Prerequisite: IDIA 640 or permission of instructor.

**IDIA 742 TOPICS IN USER RESEARCH (3)**

Intensive exploration of topics in user research of mutual interest to students and faculty. Content varies depending on the interests of faculty and students. Course may be repeated for credit when topic changes. Lab Fee required. Prerequisite: PBDS 501 or passing score on the hypermedia proficiency exam in addition to IDIA 642

**IDIA 750 SPECIAL TOPICS (3)**

Intensive exploration of topics in user research, information architecture, interaction design, or user experience design of mutual interest to students and faculty. Course may be repeated for credit when topic changes. Lab fee required. Prerequisite: PBDS 501 or passing score on a specified equivalent HTML proficiency exam.

**IDIA 790 INDEPENDENT STUDY (1 - 3)**

Research or problem-solving project in some aspect of publications design. Topics and number of credits vary with individual student interests. Eligible for continuing studies grade. Lab fee required. prerequisite: permission of program director

**IDIA 798 CONTINUOUS ENROLLMENT (1)**

Provides continuing faculty direction, academic support services and enrollment services for students who have completed all course requirements for the degree but have not completed a thesis or final project. Course may be repeated for credit as needed. Grading is pass/fail. Prerequisite: completion of all course requirements for degree program.

**IDIA 799 THESIS/ PROJECT (3 - 6)**

Preparation of a work of original research or a substantial interactive or interface project displaying practical knowledge of relevant research. Each student develops a substantial thesis project that incorporates user research. Projects and research are presented to program faculty for critique. Eligible for continuing studies (CS) grade. Lab fee required. Prerequisites: PBDS 501 or passing score on HTML Proficiency Exam, and permission of program director.

**IDIA 810 PROSEMINAR (3)**

Provides students with the opportunity to build research contexts and refine plans for their degree projects. Engages students in constructive critique of project ideas and in sharing research resources and approaches. Lab fee required. Required of all D.S. doctoral students prior to taking the qualifying examination. Prerequisite: IDIA 842.

**IDIA 841 STATISTICS AND QUANT ANALYSIS FOR UX (3)**

Prepares students to design valid quantitative studies and to analyze and interpret quantitative research results using common statistical measures. Students study common measures of central tendency, variability, variance, covariance, and multiple regression.

**IDIA 842 EXPERIMENTAL METHODS FOR USER RESEARCH (3)**

Introduces the fundamentals of quantitative and qualitative research methodologies for applied research in human/computer interaction and user experience design. Lab fee required.

**IDIA 898 CONTINUOUS ENROLLMENT (1)**

Provides continuing faculty direction, academic support services and enrollment services for students who have completed all course requirements for the degree but have not completed a thesis or final project. Course may be repeated for credit as needed. Grading is pass/fail. Prerequisite: completion of all course requirements for degree program.

**IDIA 898X CONTINUOUS ENROLLMENT (1 - 5)**

Provides continuing faculty direction, academic support services and enrollment services for students who have completed all course requirements for the degree but have not completed a thesis or final project. Course may be repeated for credit as needed. Grading is pass/fail. Prerequisite: completion of all course requirements for degree program.

**IDIA 899 DISSERTATION (1 - 6)**

Research and work connected to the doctoral project under the direction of a faculty adviser. A minimum of 12 semester hours is required for the doctoral degree. Eligible for continuing studies (CS) grade. Lab fee required. Prerequisites: Permission of program director.

**IDIS: Interdisciplinary Studies**

**IDIS 101 FIRST YEAR SEMINAR: INTRODUCTION TO UNIVERSITY LEARNING (3)**

Helps students to develop key skills, knowledge and habits of mind necessary for academic and professional success. In an active-learning environment, first-semester students and their instructors explore the nature and practice of intellectual inquiry in a university environment. Applied exercises reinforce core study/learning skills in the context of real-time demands, while structured self- and group reflection develops concurrent skills in personal, academic and professional goal-setting. Students become more intentional, lifelong learners, with skills in teamwork and critical thinking that can become fundamental elements of personal effectiveness in increasingly complex and globalized communities and work environments. Course fee required. [PPS] [ELECGE]

**IDIS 102 CRITICAL THINKING AND MULTICULTURAL AWARENESS (1)**

Critical thinking is the ability to be both systematic and creative in analyzing and synthesizing information to solve problems, and multicultural awareness includes the knowledge, skills and personal attributes college graduates need to live and work in a diverse world. Students explore critical thinking from both a systematic “left brain” and creative “right brain” perspective and then apply that understanding to develop an awareness of multicultural competency issues. prerequisite: IDIS 101

**IDIS 110 INTRODUCTION TO INFORMATION LITERACY (3)**

Being able to find, assess and use information effectively is a fundamental skill needed in any career as well as in day-to-day life. This course teaches students how to define their information needs, search for information effectively, make logical arguments, understand the different forms information can take, critically assess information they find and present data in an appropriate way. In addition, it provides students with the skills necessary to evaluate the kinds of opinion and argumentation they encounter outside the University.

**IDIS 298 SPECIAL TOPICS IN INTERDISCIPLINARY STUDIES (3)**

Exploration of topics in interdisciplinary studies of mutual interest to faculty and students. Content varies depending on the interests of faculty and students. Course may be repeated for credit when topic changes. Prerequisite: None.

### **IDIS 300 IDEAS IN WRITING (3)**

Advanced study of strategies applicable to writing both within and beyond the University. Stresses the interrelationships of careful reading, critical thinking and effective writing. Building on skills mastered in lower-division composition courses, students develop the ability to analyze the contexts within which they write, to define their purposes clearly and to employ appropriate strategies for accomplishing those purposes. Assigned readings illustrate a variety of writing strategies and promote serious consideration of important ideas and concepts. Students are required to take the placement test for this course prior to their second semester of registration at UB. prerequisite: adequate score on placement test or completion of WRIT 200 with a grade of pass

### **IDIS 301 WORLD CULTURES: (3)**

An interdisciplinary study of different cultures including economic, political, social and cultural systems and structures and their interrelationships. Provides an opportunity for students to compare their own culture with others through study and research. [GIK] [ELECCE]

### **IDIS 302 ETHICAL ISSUES IN BUSINESS AND SOCIETY (3)**

Explores and critically examines ethical issues in business and society. Students will deliberate about ethics as it arises in their personal, professional, and public lives. Emphasis is placed on a practical understanding of major ethical frameworks and their applications for ethical decision-making, ethically assessing institutions, and creating and critically evaluating personal and professional ethical frameworks. Students will join a larger IDIS 302 course community linked together through co-curricular programming. [CTE] [AHE] [ETH]

### **IDIS 304 ARTS AND IDEAS (3)**

An interdisciplinary study of enduring works of imagination and intellect that have contributed to the making of contemporary civilization. Examples of art, architecture and music are used to illuminate central themes in literature, philosophy and history. The cultural resources of the Baltimore area are used wherever appropriate. [ART]

### **IDIS 305 INTRO TO INTERDISCIPLINARY STUDIES (3)**

What does it mean to learn across the curriculum and to address problems from an interdisciplinary perspective: This course provides an introduction to the interdisciplinary studies major. Topics and activities include development of your own intentional plan of study for the major, introduction to interdisciplinary thinking, survey of and introduction to learning methods and University resources for taking full advantage of the Interdisciplinary Studies major. Prerequisite: None

### **IDIS 497 INTERDISCIPLINARY STUDIES PORTFOLIO (3)**

In this capstone course, students examine the process of interdisciplinary problem-solving through a review of epistemological theory; visual and verbal rhetoric; the psychology of creativity, cognition and learning; and interpersonal and small-group communication. Each student creates an interdisciplinary project and prepares a learning portfolio that contains a personal mission statement, a revised version of the student's original program plan with narrative commentary and a reflective journal. Permission of IDIS advisor required. Prerequisites: IDIS 201 and WRIT 300. [CAP]

### **IDIS 498 SPECIAL TOPICS IN INTERDISCIPLINARY STUDIES (3)**

Intensive exploration of topics in interdisciplinary studies of mutual interest to faculty and students. Content varies depending on the interests of faculty and students. Course may be repeated for credit when topic changes. Prerequisite: None

## **INFO: Information Literacy**

### **INFO 110 INTRODUCTION TO INFORMATION LITERACY (3)**

Being able to find, assess and use information effectively is a fundamental skill needed in any career as well as in day-to-day life. This course teaches students how to define their information needs, search for information effectively, make logical arguments, understand the different forms information can take, critically assess information they find and present data in an appropriate way. In addition, it provides students with the skills necessary to evaluate the kinds of opinion and argumentation they encounter outside the University. [IL]

## **INSS: Information Science and Systems**

### **INSS 100 COMPUTER INFORMATION SYSTEMS (3)**

This course provides an introduction to the fundamental technologies that underpin modern organizations, as well as those that affect people's personal lives. The course will provide students with the essential knowledge needed to function productively and independently with information technology. Skills learned will include the ability to solve problems using software, to adapt to new technological environments, and to keep information organized and communicate effectively using technology. Topics will include exploring basic programming concepts through robotics, an introduction to data analysis using spreadsheets, an introduction to cyber security, privacy and ethics, and using databases. Students successfully completing this course will have met the UB graduation requirement for technology fluency. [COSC] [PPS] [ELECGE] [TF]

### **INSS 209 INTRODUCTION TO PROGRAMMING (3)**

This course develops logical and analytical thinking through basic programming concepts like looping, simple sequence, decision and branching. It also provides an exposure to algorithm development for the design of simple programs. Topics include basic concepts of data and file organization.

### **INSS 225 STRUCTURAL PROGRAMMING USING PROCEDURAL LANGUAGES (3)**

This course introduces good coding practices using structured programming concepts. Modules and shared routines with single-entry and single-exit points are emphasized. Sequence, selection, repetition, and nesting, techniques are reinforced as acceptable means of controlling program logic. Students work on projects that involve analyzing, designing, coding, executing and testing programs. Pre-requisite: INSS 209.

### **INSS 300 MANAGEMENT INFORMATION SYSTEMS (3)**

Provides fundamental information systems (IS) and information technology (IT) knowledge and skills for business professionals, with a focus on the strategic, tactical, and operational applications of current information technologies and resulting products. Topics will include the role of IS and IT in decision-making process effectiveness; IS for competitive advantage; the economic, social, legal, and ethical impacts of IS and IT; information security; and key technologies that underpin important business applications such as machine learning, artificial intelligence, and cloud computing. Students will develop introductory skills in Python and SQL, and intermediate skills in Excel.

### **INSS 305 DATA DRIVEN DECISION MAKING (3)**

An essential skill for any business student is the ability to make data meaningful. This includes the ability to source, analyze, and present data effectively, as well as having an understanding of the major technological platforms used in industry for this purpose. Whether it is manipulating financial data or understanding social media feeds, identifying ethical or broader societal concerns, the data skills needed for modern data driven decision making have these common elements. Students will apply analytical techniques in order to make data-driven business decisions. They will improve their database, data management, data analytics, and data visualization skills as well as learning new methods like machine

learning and data mining. They will also acquire basic proficiency in the industry-dominant technology platforms used for these tasks, like Tableau or python. The course will use real live data, whenever possible, to address pressing business issues from a variety of disciplines.

### **INSS 310 CODING FOR DATA ANALYTICS (3)**

Data scientists spend up to 80% of their time and effort in collecting, cleaning and preparing data to produce usable datasets which can be leveraged for analytics. This course will focus on using the programming language python for these data preparation tasks. Students will learn to extract data from databases and unstructured data sources such as social media feeds, as well as how to "wrangle" (clean, transform, merge and reshape) data. Topics include python data structures, program logic and libraries, data management and data standardization. No prior experience with programming languages is required. Prerequisite: MATH 111 or MATH 115.

### **INSS 370 PROJECT MANAGEMENT (3)**

This course provides the fundamentals of project management, with a focus on managing information systems projects. Upon successful completion of this course, candidates may be eligible to take the Project Management Institute (PMI) exam for Certified Associate in Project Management (CAPM). Prerequisites: INSS 300 or permission of instructor

### **INSS 406 SYSTEM ANALYSIS AND LOGICAL DESIGN (3)**

Introduces key principles and techniques used to develop or modify information systems to support business undertakings. The course covers the lifecycle of software systems, with an emphasis on the analysis and logical design phases. Topics include the determination and modeling of the requirements of information systems and software, business process modeling and reengineering, data modeling, data gathering and requirements specification, interface design, and the development of system prototypes, including electronic forms and reports. Students gain experience with leading industry development tools such as those from Oracle and PeopleSoft. prerequisite: INSS 209 or INSS 225 or equivalent/ Merrick School of Business student or permission of the instructor.

### **INSS 421 DESIGN OF DATABASE MANAGEMENT SYSTEMS (3)**

Introduces the concepts and technologies relevant to the design, development, and implementation of database systems. Data modeling concepts and principles of database design are used to illustrate the construction of integrated databases. Database management systems (DBMS) and their purpose, advantages, disadvantages, and application in business are covered. Prerequisite: INSS 300/ Merrick School of Business student or permission of the instructor.

### **INSS 422 BUSINESS INTELLIGENCE (3)**

Business Intelligence (BI) refers to the use of information technology to analyze complex information about an organization and its competitors for use in business planning and decision making. This course details the techniques and components of BI systems, as well as the critical variables needed to implement an effective BI program. The course takes a managerial approach to Business Intelligence, emphasizing BI applications and implementations, including data visualization. The course will involve use of industry standard software packages. Prerequisites: INSS 300 or permission of the instructor.

### **INSS 427 BUSINESS DATA COMMUNICATIONS (3)**

Provides students with a basic understanding of terminology, techniques, and concepts of business data communications. The emphasis is on both the technical aspects of data communication and related managerial issues. Topics include, but are not limited to, physical aspects of data communication, common carrier services, local area networks, wide area networks, Internet and electronic commerce, network management, and network applications. Prerequisite: INSS 300 / Merrick School of Business student or by permission of the instructor

### **INSS 470 IT SERVICE DELIVERY (3)**

As businesses become more dependent on technology, it is crucial that a company's IT systems are designed and delivered to consistently support its business processes. One increasingly popular way to achieve this, particularly as applications hosted and managed "in the cloud" become more pervasive, is to

take a service management approach. This course presents the fundamentals of IT service management, including service management strategies, the service lifecycle, metrics and performance indicators, and the impact a service mgt approach has on issues such as data management, virtualization, and security. The course material will prepare students for the ITILV3 Foundation certification exam. prerequisite: INSS 300 [CAP]

### **INSS 495 INTERNSHIP IN MIS (3)**

Provides students with practical real-world experience in an organization. The course requires a minimum of 120 hours of practical work with a qualified firm based on explicit statements of student responsibilities and faculty/firm monitoring mechanism. Students will work closely with both the firm and a faculty member. prerequisites: completion of 15 hours of INSS courses (excluding INSS 300) with a minimum GPA in those courses of 3.0 and permission of the instructor

### **INSS 497 SPEC TOPIC: (3)**

The INSS faculty, from time to time, offer an opportunity to integrate new material into the undergraduate program reflecting changes in the field and in the educational needs of students. prerequisites appear in each semester's class schedule. Prerequisite: Merrick School of Business student and by permission of the instructor.

### **INSS 499 INDEPENDENT STUDY - INFORMATION SYSTEMS (1 - 3)**

An independent study completed under the direction of a faculty member. For eligibility and procedures, refer to the Merrick School of Business Independent Study Policy. Prerequisite: Merrick School of Business student and by permission of the instructor.

### **INSS 605 IT FOR BUSINESS TRANSFORMATION (3)**

Examines the key roles that information systems and technologies play in the current business environment as well as the disruptive and innovative nature of information systems in promoting the fundamental transformation of industries, businesses and society. Covers current major issues in the field of management of information systems, such as social computing, cybersecurity, big data and mobile technologies. Prerequisites: graduate standing.

### **INSS 611 DATA SCIENCE TOOLKIT I (1.50)**

This course will introduce the basis of using the python programming language in data science, specifically to collect and manipulate data in preparation for exploratory data analysis and prediction. No prior programming experience is required. Topics will include python data structures, program logic and libraries, as well as data wrangling and data management. Types of data sources covered will include databases as well as unstructured data sources such as social media feeds.

### **INSS 612 DATA SCIENCE TOOLKIT II (1.50)**

The effectiveness of business analytics depends on the quality of the data fed into the analytics models used. Data scientists can spend as much as 60% of their time cleaning and organizing data. This course focuses on preparing data for analytics tasks, to improve the accuracy and reliability of the results. Using python students will learn to "wrangle" (clean, transform, merge and reshape) data. Techniques will include data parsing, data correction, and data standardization. Prerequisite: INSS 611

### **INSS 621 DIGITAL TRANSFORMATION (1.50)**

Digital technologies are playing a transformative role in the modern world. The changes associated with digital innovations such as social media, block-chain technology and smart embedded devices are rapidly disrupting a variety of industries across the globe and challenging institutions, organizational structures, and most importantly, the skillset needed for a successful workforce. This course focuses on bleeding-edge technologies and digital business transformation. It enables students to understand the challenges and opportunities of the dynamic complex and disruptive technological business environment of the digital age. Prerequisite: INSS 605.

### **INSS 622 DIGITAL INNOVATION (1.50)**

The digital revolution is constantly challenging businesses and managers to adapt to new realities. Many organizations are establishing market leadership in today's competitive environment by mastering digital

innovation. This course is designed to assist students in understanding that the fundamental nature of digital innovation is not about information technology, but is about thinking differently about how to organize to create value. It aims to equip students to competently identify technological and organizational opportunities, lead digital initiatives and develop new business models for existing and emerging organizations. Topics include digital disruption and innovation, digital platforms, digital business models and digital product and service development. Prerequisite: INSS 605

### **INSS 625 INTRODUCTION TO AI FOR BUSINESS (3)**

In a business landscape increasingly driven by data and technology, artificial intelligence (AI) has emerged as a transformative force with the potential to drive efficiency, innovation, and competitive advantage across industries. This introductory course aims to equip students with the knowledge and tools needed to harness the power of AI to make informed decisions, enhance processes, and create value. Upon completing this course, participants will have a foundational understanding of AI and its practical applications in the business world. They will be equipped with the knowledge to engage in informed discussions about AI strategies, make data-driven decisions, and explore opportunities for AI integration within their organizations, as well as practical skills using generative AI tools such as ChatGPT.

### **INSS 630 MACHINE LEARNING FOR BUSINESS (3)**

This course provides a systematic understanding of why and when machine learning models can help business decision making processes in various areas. Students learn the use of unsupervised techniques, such as clustering, association, and dimensionality reduction, and supervised techniques, such as regression and classification. Algorithms covered include logistic regression, support vector machines, decision trees, K-Means, KNN, random forest, etc. Hands-on exercises using Python also teach students how to perform machine learning analyses, from data preprocessing to model evaluation. An introduction to deep learning concepts, including tools such as neural networks, caps off the course.

### **INSS 651 DATABASE MANAGEMENT SYSTEMS (3)**

Examines the theories and concepts employed in database management systems (DBMS) and the efficiencies and economics of such systems. The course specifically addresses steps in the database cycle, including normalization, database design, implementation and developing queries using SQL. The functions of various types of DBMS are described, including their purpose, advantages, disadvantages and applications in business. Data administration, data requirements for ERP systems and data security issues are also covered.

### **INSS 703 PRINCIPLES OF INFORMATION SECURITY MANAGEMENT (3)**

Awareness and management of information security has become critical to the management of any organization. This course focuses on the need for businesses to adapt to the changing security landscape, and provides an introduction to the different domain areas in information security from a managerial perspective. Topics will include security governance, legal regulations and compliance, environmental security, operations security, access controls, network security, disaster recovery response, and cryptography. Prerequisites: INSS 605 or INSS 640.

### **INSS 722 VISUAL BUSINESS INTELLIGENCE (3)**

This course will introduce students to the use of data visualization and visual business intelligence in a business environment. Students will develop a framework and language for analyzing and critiquing the visualization of data, and learn to use data visualizations to effectively support decision making. Topics will include data abstraction and validation, and how to handle different types of data, dataset and attribute types. Students will use software tools to create visualizations.

Apache and MySQL, ASP and PHP concepts. prerequisites: INSS 651 and INSS 701

### **INSS 753 INFORMATION SECURITY AND BUSINESS CONTINUITY (3)**

This course focuses on information security at a strategic level, particularly information security governance and risk management, and business continuity. The key issues associated with protecting business information assets will be examined, including how risk and security assessments should be

done in terms of impact on systems, staff, reputation and market share. Topics will include information security management, disaster recovery response, governance and compliance frameworks, and information security policy. prerequisite: INSS 605

### **INSS 797 ADVANCED TOPICS IN INFORMATION SYSTEMS (3)**

An exploration of advanced topics in information systems of interest to faculty and students. Topics are selected and printed in the schedule of classes. Pre-requisite: INSS 605 or INSS 640

### **INSS 799 INDIVIDUAL RESEARCH : INFORMATION SYSTEMS (1 - 3)**

Prerequisites: approval of information systems instructor, department chair and academic adviser

## **LEST: Legal Studies**

### **LEST 400 TOPICS (3)**

An exploration of varying legal studies topics or a cross-listed graduate course of interest to legal studies majors. Course may be repeated for credit when topic changes.

### **LEST 401 LEGAL FOUNDATIONS (3)**

In-depth exploration of the organization of the American legal system. Examines how law is organized as a field of knowledge and practice and how it functions as an instrument of government and arena of dispute resolution. Also considers the context of law and law's effectiveness in promoting justice and social policies.

### **LEST 402 LEGAL RESEARCH AND ANALYSIS (3)**

Intensive course on the ways law and regulations are made and interpreted, the sources of legal research and proper styles of legal citation. Students are required to learn how to read and analyze court decisions and to write effectively about legal issues. [IL]

### **LEST 403 THE TRIAL PROCESS (3)**

Explores the procedural, evidentiary and strategic aspects of litigation. Introduces the basics of pleadings, discovery, motion practice, rules of evidence and trial techniques. Covers how court cases are initiated, prepared and tried. Includes participation in a mock trial. This course cannot be used to satisfy degree requirements in the CRJU or FSCS programs. [OC]

### **LEST 496 INTERNSHIPS (3)**

Provides students with an opportunity to work at an organization, government entity or business that offers an experience relevant to legal studies. Students may choose from established internship options or propose an independently-arranged internship option for approval. May be repeated up to four times for credit.

### **LEST 498 CAPSTONE PROJECT (3)**

Students consult with the instructor or another faculty member with relevant expertise to develop a mutually agreed-upon capstone project that employs legal skills and knowledge. Examples include legal memoranda, analyses of legislation and legal problem-solving proposals. [CAP]

### **LEST 500 LEGAL RESEARCH AND ANALYSIS (3)**

Intensive course on the ways law and regulations are made and interpreted, the sources of legal research and proper styles of legal citation. Students are required to learn how to read and analyze court decisions and to write effectively about legal issues. Required of all students in the first semester upon entering the program.

### **LEST 501 LEGAL FOUNDATIONS (3)**

In-depth exploration of the organization of the American legal system. Examines how law is organized as a field of knowledge and practice and how it functions as an instrument of government and arena of dispute resolution. Also considers the context of law and law's effectiveness in promoting justice and social policies.

### **LEST 502 LAW AND SOCIETY (3)**



An examination of the ethical significance, historical background, and social impact of law. Focuses on legal issues of historical and/or contemporary importance, and considers the extent to which law vindicates ethical concerns and accomplishes social objectives.

**LEST 600 COMPLEX LEGAL ANALYSIS (3)**

Advanced legal analysis and writing. Emphasizes high-level comprehension of cases and statutes, solidification of good legal research techniques and effective presentation of written legal analysis and argument. Students look at important legal issues, as a means of developing skills useful in law, in a variety of areas as subjects for class discussion and exercises and writing assignments. prerequisite: LEST 500

**LEST 601 ETHICS AND ADVOCACY (3)**

Provides a detailed study of current legal ethics. Promotes understanding of ethical conflicts faced by lawyers in their daily professional and personal lives, demonstrates methods of reconciliation of conflicts among competing ethical rules and standards, and compares and contrasts legal ethics with conventional ethical norms. Surveys the contemporary culture of the legal profession in its various settings, including professional, judicial and educational environments in which legal ethics are embedded. prerequisites: LEST 501, LEST 507 and LEST 508 or permission of program director

**LEST 603 LAW OF CONTRACTS (3)**

Explores the elements of a legally enforceable agreement, defenses to contract actions and statutory modifications to the common law of contracts. Considers the balancing of different interests in contemporary contract law, including considerations of fairness, social and economic policy objectives, and individuals' freedom to structure commercial and personal relationships.

**LEST 604 LAW OF BUSINESS ORGANIZATIONS (3)**

Introduction to the law of business organizations, including their history, function and public policy implications. Forms covered include individual proprietorships, partnerships and corporations as well as newer variations such as limited liability companies. Topics include methods of finance and control and the rights and obligations of the principals, agents and third parties.

**LEST 605 AREAS OF LAW (3)**

Varying course offering that explores a particular area of law. Course may be repeated for credit when topic differs.

**LEST 606 FAMILY LAW (3)**

The legal problems confronting modern families. Examines the law of marriage, marriage-like relationships, cohabitation and divorce, in the context of the ever-changing definition of family. Also considers legal issues relating to children, including custody, support and the complications arising from reproductive technologies.

**LEST 607 PROPERTY LAW (3)**

Basic law of property, including philosophical and ethical justifications and important historical developments in the scheme of ownership in Anglo-American Law. Focus is on current property law from the viewpoint of its underlying rationales and policy considerations.

**LEST 609 EMPLOYMENT LAW (3)**

The law of employment in its social, ethical and historical contexts. Examines common law principles of employment contracts, the employment at will doctrine and a wide range of regulatory regimes governing work. Students consider leading cases in their economic, social and historical contexts and employment law in its practical and principled applications by taking up the ethics of human resources and industrial relations.

**LEST 610 LEGAL TOPICS (3)**

Varying course offering that explores a particular issue, context or method of the law. Course may be repeated for credit where topic differs.

**LEST 614 TORTS (3)**

The civil law of reparation for harm done by wrongful acts. Examines many of the causes of action available under theories of intentional wrongdoing, negligence and strict liability. Considers the range of problems and issues that arise in contemporary practice as well as their historical roots.

**LEST 615 CRIMINAL LAW (3)**

Substantive, procedural and constitutional criminal law. Criminal law involves those actions that society identifies as particularly contrary to morality and society's best interests. Students study the classification of certain actions as crimes and the rationales for such classification, based on the Model Penal Code and Maryland Criminal Law. Examines the criminal process from investigation through appeal, including features mandated by both state law and the U.S. Constitution. prerequisite: LEST 500

**LEST 616 CONSTITUTIONAL LAW (3)**

The American constitutional form of government and the amendments establishing individual rights. Focuses on the parts of the U.S. Constitution that are concerned with civil liberties but also with the structure in which such liberties are protected. Emphasizes First Amendment, due process and equal protection. prerequisite: LEST 500

**LEST 617 ADMINISTRATIVE LAW (3)**

The history, function and powers of administrative agencies. Covers administrative agencies on the federal level and parallel state and local government level. Examines the function of administrative agencies generally, including their rule-making and adjudicative powers, and practice and procedure before such agencies. Includes the study of judicial review of administrative agency decisions.

**LEST 624 PROFESSIONAL ETHICS (3)**

An overview of professional ethics in law, business, finance, health care and other fields. Covers ethical concepts that apply across professions as well as many of the specific ethical rules that apply to particular professions. Considers the rules in the context of important legal cases and controversial contemporary problems. Includes the study of ethical theory as well as applications.

**LEST 625 TOPICS IN APPLIED ETHICS (3)**

Varying course offering that explores a particular topic in applied ethics. Course may be repeated for credit where topic differs.

**LEST 626 THE TRIAL PROCESS (3)**

The procedural, evidentiary and strategic aspects of litigation. Introduces the basics of pleadings, discovery, motion practice, rules of evidence and trial techniques. Covers how court cases are initiated, prepared and tried. Includes participation in a mock trial.

**LEST 628 ENVIRONMENTAL LAW AND ETHICS (3)**

The pressing ethical, legal and political issues facing the world today that have to do with the relationship between humans and the nonhuman world. Explores environmental ethics through classic and contemporary readings from a wide array of philosophic and literary traditions. Examines the role legal institutions play in our efforts (or lack thereof) to deal with ethical issues involving the environment.

**LEST 629 BIOMEDICAL ETHICS (3)**

Explores the ethical considerations that affect legal decision-making on biomedical issues. Among the subjects that may be considered are medical paternalism, patient autonomy and informed consent, research involving human subjects, justice in health care, genetic testing, enhancement, euthanasia and physician-assisted suicide. The focus is on developing an understanding of varied ethical perspectives and how they relate to controversial biomedical issues. prerequisite: none

**LEST 696 INTERNSHIPS (3)**

Application of legal knowledge and skills at a designated nonprofit organization, government entity, or business. Students will learn about the role that law plays in the activities or services of the site, and how law is used to address issues and solve problems. This course may be taken more than once, with the approval of the program director.

**LEST 697 APPLIED PROJECTS (3)**

Focused and intensive work on one or more projects applying legal knowledge and skills to real world situations to solve problems and improve processes. Students may select from already ongoing projects, or develop their own. This course may be taken more than once, with the approval of the program director.

### **LEST 699 INDEPENDENT STUDY (3)**

Individual exploration, with the guidance of a faculty member advisor, of an area of interest involving the law. Can take the form of working through a reading list with discussion and short reflection papers; or researching and writing a longer paper, article, or memorandum; or any other appropriate advanced academic study. This course may be taken more than once, with the approval of the program director.  
prereq: approval of program director

## **MATH: Mathematics**

### **MATH 111 COLLEGE ALGEBRA (3)**

Provides students with more advanced skills required for high-level applications of mathematics. Negative and rational exponents and functions, their properties and operations, including inverse functions; linear, quadratic, polynomial, rational, absolute value, exponential and logarithmic functions are explored. Students develop graphical and algebraic skills and study applications of concepts. prerequisites: meet or exceed required math placement score and/or successful completion of a developmental math (MATH 82/83/84/86/100), or a course that satisfies the University of Baltimore General Education Math requirement. [MATH] [QQT] [MA] Note, students who have taken a college-level math course should talk to their advisor or math placement coordinator before enrolling in this course.

### **MATH 113 MATHEMATICS FOR LIBERAL ARTS (3)**

Explores the aesthetics and utility of mathematics through the study of basic mathematical concepts and ideas. Topics are chosen from sets, counting methods, mathematical systems, basic rules of probability, statistics, logic, finance, geometry, numeration systems and modeling. Not open to those who successfully completed MATH 111 or MATH 115. prerequisites: meet or exceed required math placement score and/or successful completion of a developmental math (MATH 82/83/84/86/100), or a course that satisfies the University of Baltimore General Education Math requirement. [MATH] [QQT] [MA] Note, students who have taken a college-level math course should talk to their advisor or math placement coordinator before enrolling in this course.

### **MATH 115 INTRODUCTORY STATISTICS (3)**

An overview of descriptive and inferential statistics. Statistics is inherently applied the course emphasizes solutions to problems in a variety of applied settings. Measures of location and variability, probability distributions, correlation and regression, sampling and sampling distributions, hypothesis testing and estimation with confidence intervals for means and proportions are explored. prerequisites: meet or exceed required math placement score and/or successful completion of a developmental math (MATH 82/83/84/86/100), or a course that satisfies the University of Baltimore General Education Math requirement. [MATH] [QQT] [MA] Note, students who have taken a college-level math course should talk to their advisor or math placement coordinator before enrolling in this course.

### **MATH 153 INTRODUCTORY STATISTICS (4)**

Examines statistical methodology and use of critical judgement in analyzing data sets. Topics include descriptive statistics, introduction to probability, normal and binomial distributions, hypothesis testing, confidence intervals, regression and correlation, and chi-square distribution. A statistical computer package such as StatCrunch, Minitab, etc., is introduced as a computational tool and integrated throughout the course. Note: Students who have taken a college level math course should talk to an advisor before enrolling in this course. Students enroll concurrently in MATH 153 and MATH 082 Introductory Algebra. [MA]

**MATH 163 COLLEGE ALGEBRA (3)**

Explores the nature and scope of college mathematics through the study of functions. Topics include the study of polynomial, rational, radical, piece-wise defined, and absolute value functions and their graphs and applications as well as modeling with these functions. Additional topics include complex numbers, the binomial theorem, inverse functions, operations with functions, and exponential and logarithmic functions and their graphs and applications. Note: Students who have taken a college-level math course should talk to an adviser before enrolling in this course. Students enroll concurrently in MATH 163 and MATH 086 Developmental Mathematics - Algebra. [MA]

**MATH 201 CALCULUS I (3)**

Introduction to calculus, including limits, continuity, derivatives, applications of the derivative and introduction to integral calculus. prerequisite: MATH 111 or equivalent

**MATH 303 APPLIED PROBABILITY AND STATISTICS (3)**

Applied probability and statistics focusing on statistical methods and applications such as hypothesis testing. Introduces probability, random variables, normal distributions, sampling distributions and hypothesis testing. Statistical methods include one- and two- sample procedures for means and proportions, chi-square tests, analysis of variance and linear regression. prerequisite: Math 111 or equivalent.

**MATH 321 MATHEMATICAL STRUCTURE FOR INFORMATION TECHNOLOGY (3)**

A study of number systems, sets, Boolean algebra and propositional calculus, relations and databases, and directed and undirected graphics with -applications to algorithms and networks. prerequisite: MATH 111 or equivalent

**MATH 497 TOPICS IN MATHEMATICS (3)**

Intensive exploration of topics in mathematics of mutual interest to faculty and students. Content varies according to the current interests of faculty and students. The subject studied appears under the Topics heading in the class schedule. prerequisite: senior standing or permission of the instructor.

**MATH 499 INDEPENDENT STUDY (1 - 3)**

The pursuit of independent study under the supervision of a full-time faculty member. Students may earn up to 3 credits for this independent study. The number of credits earned is determined by the supervising faculty member before the study begins. prerequisites: see class schedule or the instructor

**MATH 81 PRE-ALGEBRA (3)**

Presents a variety of topics, including algebraic expressions, first-degree equations, inequalities in one variable, formulas and linear equations, such as graphing points, determining slope, writing linear equations, and graphing lines. Prerequisites: a sufficient math placement score.

**MATH 82 INTRODUCTORY ALGEBRA (3)**

Presents a variety of topics, including first-degree equations and inequalities, linear equations, systems of equations, polynomials, factoring and descriptive statistics. Prerequisites: Students enroll concurrently in MATH 082 and MATH 153 Introductory Statistics.

**MATH 83 FOUNDATIONAL MATHEMATICS - ALGEBRA (1 - 3)**

Presents a variety of topics including real numbers, linear equations, polynomials, systems of equations, rational expressions, properties of exponents, radical functions and quadratic equations. This course develops essential background skills for a college-level introductory mathematics course such as College Algebra or Basic Statistics. Note: Students are placed into this course on the basis of Accuplacer Diagnostic Test results and previous secondary school math grades/SAT scores. Grading: Satisfactory/Unsatisfactory.

**MATH 84 FOUNDATIONAL MATHEMATICS - STATISTICS (1 - 3)**

Focuses on algebraic and numerical skills in a context of applications and problem solving to prepare students for Statistics or Contemporary Mathematics. Topics include quantitative relationships, patterning and algebraic reasoning, functional reasoning, probabilistic and statistical reasoning, incorporating quantitative communication skills and technology. Note: Students are placed into this course on the basis

of Accuplacer Diagnostic test results and previous secondary school math grades/SAT scores. Grading: Satisfactory/Unsatisfactory; credits do not count toward a UB degree or certificate.

### **MATH 85 ACCELERATED FOUNDATIONAL MATHEMATICS - ALGEBRA (1)**

Presents a variety of topics, including: operations with real numbers, expressions, fractions and decimals, proportions, ratios, rates, percentages, linear equations, linear inequalities, graphs and equations of lines, polynomials and quadratic applications, rational expressions and equations, and radical expressions and equations. Accelerated learning course that develops essential background skills for a college-level introductory mathematics course such as college algebra or basic statistics. Can only be taken as a co-requisite with MATH 111 College Algebra. Note: Students are placed into this course on the basis of the Mathematics Placement Test results and previous secondary school math grades/SAT scores. Grading: satisfactory/unsatisfactory

### **MATH 86 DEVELOPMENTAL MATHEMATICS - ALGEBRA (3)**

Covers rational expressions and equations, radicals, quadratic equations, complex numbers, functions and relations, and exponential and logarithmic functions. Note: Students are placed into this course on the basis of the Mathematics Placement Test results and previous secondary school math grades/SAT scores. Students enroll concurrently in MATH 086 and MATH 163 College Algebra.

## **MGMT: Management**

### **MGMT 101 BUSINESS IN A CHANGING WORLD (3)**

Business in a Changing World (3) An introduction to the world of business. Students explore the role of business in society, the dynamics of business and public policy, business ethics and social responsibility, the implications of global competition on society, forms of business organizations, and managing to enhance service, quality and productivity. This course also introduces students to the various functional areas and possible careers in business including the creation and distribution of goods and services, accounting and finance, marketing and human resource management. [SOSC] [GIK] [SBS]

### **MGMT 301 MANAGEMENT AND ORGANIZATIONAL BEHAVIOR (3)**

Management and Organizational Behavior is an exploration into the functions of management, individual behavior, and interpersonal relationships in organizations with an emphasis on teamwork and the development of skills required by effective managers. Topics covered include but are not limited to group dynamics & teamwork, values, personality, motivation, leadership, communication, power & political behavior, conflict management. Course coverage includes global perspectives and significant research from the behavioral sciences.

### **MGMT 302 GLOBAL BUSINESS ENVIRONMENT (3)**

This course enhances students' abilities to operate successfully in today's multicultural, global environment. Students will gain a theoretical basis for understanding key aspects of the global business environment, as applied to small companies and multinational corporations. Students will explore the impacts of globalization at home and abroad. Course modules aim to broaden the students' understanding of similarities and differences among national political economics and sociocultural environments including business ethics and social responsibility. Students will survey theories of international trade, foreign direct investment, international financial institutions, as well as business functions as they are applied to expand and manage international operations. [GD] Prerequisites: (ECON 200 or ECON 202) and (CMAT 201 or CMAT 303).

### **MGMT 315 TALENT MANAGEMENT PRINCIPLES FOR MANAGERS (3)**

MGMT 315 is an introductory survey course in Talent Management (TM), which spans the life cycle of the employee. Rooted in Human Resource Management (HRM) principles, TM involves functions and activities that are common to all managers (HR and non-HR alike) such as recruitment, selection, training & development, compensation, and performance management. As a survey course, it offers exposure to

these functions with an emphasis on practical application for managers in all types of organizations (traditional corporate, non-profit, small businesses, entrepreneurial/start-up, etc.).

### **MGMT 330 PERSONAL AND PROFESSIONAL SKILLS FOR BUSINESS (1)**

Provides students with the skills necessary to advance their career development. Strategies and practices that allow the student to successfully interface with potential employers are explored and applied. Course modules include business etiquette and professional behavior, appropriate use of workplace communication techniques, written business communications, and showcasing career-building talents and skills within an organizational context. There is a lab fee associated with this course.

### **MGMT 339 PROCESS AND OPERATIONS MANAGEMENT (3)**

This course focuses on the five areas of operations management: upstream supply chain, downstream supply chain, design of the product or service, management of projects, and the process of creating the product or service in the company. Also studied will be the effects of these areas on the organization's performance via four value related parameters a customer focuses on while buying a physical good or service: cost, quality, flexibility, and response time.

### **MGMT 400 HUMAN RESOURCE ANALYSIS AND COMMUNICATIONS (3)**

An exploration of data analysis and presentation skills for human resource decision-making. Research skills and computer technology are applied to planning, selection, compensation, survey data, organizational effectiveness and utilization analysis. Special emphasis is placed on oral, written and electronic communication skills. prerequisite: MGMT 315 and OPRE 202 / Merrick School of Business student or by permission of the instructor.

### **MGMT 410 EMPLOYMENT RELATIONS LAW (3)**

An in-depth discussion of employment law as it applies to recruitment, selection and promotion decisions as well as management's responsibility to comply with the many federal laws pertaining to employer-employee relations. prerequisites: MGMT 315 / Merrick School of Business student or by permission of the instructor.

### **MGMT 415 COMPENSATION AND PERFORMANCE MANAGEMENT (3)**

A study of the objectives, procedures and problems –involved in the establishment and administration of operative and executive compensation plans. Detailed examinations of job descriptions and evaluations, wage and salary structures, performance ratings, –incentive systems, related legislation and occupational information are conducted. prerequisite: MGMT 315 / Merrick School of Business or by permission of the instructor

### **MGMT 419 SEMINAR IN HUMAN RESOURCE MANAGEMENT (3)**

An in-depth analysis of current challenges to human resource managers in small to multinational organizations. Cases and simulations are integral aspects of the learning experience. prerequisite: MGMT 315

### **MGMT 425 EMPLOYEE AND LABOR RELATIONS (3)**

An analysis of the history and development of the American labor movement. Emphasis is placed on labor legislation and present practices in contract negotiations, analysis and administration. An overview of international labor issues is provided. Prerequisite: MGMT 315 / Merrick School of Business student or by permission of the instructor.

### **MGMT 430 QUALITY AND PRODUCTIVITY MANAGEMENT (3)**

A study of all aspects of quality in creating goods and services; the relationships among customers, employees, suppliers and other stakeholders; the impact of quality on organizational productivity; measures of output performance; and benchmarking. prerequisite: MGMT 339 / Merrick School of Business student or by permission of the instructor

### **MGMT 445 SERVICE OPERATIONS (3)**

A detailed study of various topics in effective and efficient management of service operations in both public- and private-sector organizations. Topics include understanding the unique features of services, service strategy, the interface between marketing and operations in service management, design of

service operations, service quality management, customer satisfaction and retention, managing customer contact, service capacity management and location choice. Case studies supplement lectures and readings. Prerequisite: Merrick School of Business student or permission of the instructor

**MGMT 465 INTERNATIONAL MANAGEMENT (3)**

An intensive introduction to the practice of business in the international setting, as well as the various cross-cultural factors to be found around the world. Prerequisites: MGMT 302/ Merrick School of Business student or permission of the instructor.

**MGMT 470 ENTERPRISE MANAGEMENT AND STRATEGY (3)**

This BSBA capstone course builds on and integrates the disciplinary knowledge, skills, and competencies developed in prior BSBA coursework to promote an understanding of enterprise-level strategic and tactical decisions and their implementation. This general management perspective highlights how individual employees can best understand and contribute to organizational performance and how managers and leaders can identify problems and choose appropriate actions to achieve the organization's goals. (CAP)

**MGMT 495 INTERNSHIP IN MANAGEMENT (3)**

Provides students with practical real-world experience in an organization. The course requires a minimum of 120 hours of practical work with a qualified firm based on explicit statements of student responsibilities and a faculty/firm monitoring mechanism. Students will work closely with both the firm and a faculty member. prerequisites: completion of 9 hours of management courses, with a minimum GPA of 3.0. Completion of MGMT 330 is recommended. Permission of the department chair is required.

**MGMT 497 SPECIAL TOPICS: (3)**

The course is designed to give students a focused study of selected current topics in management. It enables students to learn about a management topic in more depth. Students should refer to the semester class schedule for the topic offered. The course may be repeated for credit when the topic varies. Prerequisites: Determined by instructor.

**MGMT 498 GLOBAL FIELD STUDY (3)**

To better understand and succeed in global business today, there is no better way than direct experience through immersing oneself in a foreign environment. This course will provide an opportunity for lectures and discussion with local experts and students regarding key themes of economic, political and cultural importance to business. The course will engage students in field visits to companies, government agencies and other organizations located abroad. Prerequisite: department consent required.

**MGMT 499 INDEPENDENT STUDY: MANAGEMENT (1 - 3)**

An independent study under the direction of a faculty member. For eligibility and procedures, refer to the Merrick School of Business Independent Study Policy. Prerequisite: Merrick School of Business student and permission of the instructor

**MGMT 605 LEADING WITH INTEGRITY (1.50)**

Focuses on leadership, integrity and core management principles. Provides an overview of concepts and practices essential to managerial effectiveness, including developing a vision for the organization in a complex business environment, setting objectives, planning, motivating others, managing for results, and a grounding in ethics at the individual and organizational level. prerequisite: graduate standing

**MGMT 615 MANAGING IN A DYNAMIC ENVIRONMENT (3)**

Covers the processes and necessary skills for leading and managing people in organizations that compete in dynamic environments. Emphasizes leading and motivating diverse employee populations in global organizations, and human resource management issues, including evaluation, rewards, and employment law. prerequisite: MGMT 605 or MGMT 600

**MGMT 625 COLLABORATION, NEGOTIATION AND CONFLICT MANAGEMENT (3)**

Addresses negotiation skills and the capacity to effectively resolve conflicts. Students apply theory and research to the practice of negotiation and conflict management through practical, hands-on experience

including simple buyer-seller bargaining; labor-management negotiations; impasse resolution; and complex, multiparty, multiissue negotiations. prerequisite: MGMT 605 or MGMT 600

### **MGMT 710 STRATEGIC HUMAN RESOURCE MANAGEMENT (3)**

MGMT 710 covers human-resource management from a strategic perspective with an emphasis on fit with organizational goals and strategies in order to gain and sustain a competitive advantage. Issues discussed include HRM strategies, HR planning, recruitment, selection, performance management, and training and development. Additional emphasis is placed on high performance work systems, the increased use of contract workers, international dimensions of HR and ethical considerations.

### **MGMT 730 LEADERSHIP, LEARNING AND CHANGE (3)**

Based on the idea that the deeper we go into the exploration of organizational leadership, learning and change, the more we need to deal with the dimensions of the sense-making, connection-building, choice-making, vision-inspiring, reality-creating roles of leaders. The course involves a series of workshops designed to help students learn something that cannot be taught: leading, learning and changing “from within.” Readings, assignments and Web forum interactions are designed to inspire “practices of deep reflection”: storytelling, historical inquiry, reflective reading and writing, dialogue and action research.

### **MGMT 731 LEADERSHIP SEMINAR (3)**

Focuses on the critical issues pertaining to success in operating at the executive level in business and other organizations. Topics include vision, values clarification, knowing the customer, communications for internal motivation and public awareness, ethical responsibilities, decision-making, resource decisions, performance maximization, human asset activities and individual leader behaviors for effectiveness.

Prerequisite: Graduate Standing

### **MGMT 740 ARTIFICIAL INTELLIGENCE: APPLICATIONS FOR HUMAN RESOURCES AND GENERAL MANAGEMENT (3)**

This course introduces students to foundational principles of General Management and Strategic Human Resource Management as well as their practical application. Specific AI applications related to decision-making and management of these functions are presented and practiced. Students will be required to apply these tools to business cases and scenarios.

### **MGMT 780 LEADING ACROSS CULTURES (3)**

Focuses on leadership challenges and dilemmas of multinational and multicultural organizations within the United States and among other countries. Enhances knowledge and capabilities to more effectively identify, understand and manage the cultural components of organizational and business dynamics. Topics include cultural value awareness, cross-cultural communication skills and cross-cultural leadership skills, including strategic planning, organizational design and creating and motivating a globally competent workforce. Prerequisite: MGMT 600 or MGMT 605.

### **MGMT 781 INTERNAT'L BUSINESS STRATEGY (3)**

Draws on the framework of global strategic management to help students integrate the concepts of economics, finance, marketing, technology and operations in a global context. Focuses on market entry issues, transnational structures, operational issues and leadership in cross-cultural settings and provides the framework for a real-world, international business project that may be completed by student teams and which offers the option for a study/analysis trip to another country. prerequisite: all 500-level M.B.A. courses or equivalent

### **MGMT 790 STRATEGIC MANAGEMENT CAPSTONE (3)**

An experiential capstone in which students assume the perspective of general managers facing decisions of strategic importance to their organizations. Emphasizes the critical functions of goal-setting, strategy formulation, implementation and control processes. prerequisites: ACCT 605, ECON 605, ENTR 605, FIN 605, INSS 605, MGMT 605, MKTG 605, OPRE 605

### **MGMT 792 SPECIAL TOPICS IN MANAGEMENT (1.50)**

An intensive exploration of topics in the area of management. Topics include e-commerce, e-commerce and supply chain management, e-venturing, leadership, organizational theory and best business practice.



Refer to semester class schedule for title of topic offered. May be repeated for credit when the topic varies. prerequisite: to be determined by the instructor

### **MGMT 797 SPECIAL TOPICS IN MANAGEMENT (3)**

The course is designed to give students a focused study of selected current topics in management. It enables students to learn about a management topic in more depth. Students should refer to the semester class schedule for the topic offered. The course may be repeated for credit when the topic varies. Prerequisites: Determined by instructor.

### **MGMT 798 GLOBAL FIELD STUDY (3)**

There is no better way to understand and succeed in global business today than through direct experience, or immersing oneself in a foreign environment. This course will provide an opportunity for lectures and discussion with local experts and students regarding key themes of economic, political and cultural importance to business. The course will also engage students in field visits to companies, government agencies and other organizations located abroad. prerequisite: department consent

### **MGMT 799 INDIVIDUAL RESEARCH (1 - 3)**

Investigation into a particular subject in more depth than can be accommodated by an existing course. Students work closely with an individual faculty member. prerequisites: approval of management instructor, department chair and academic adviser

## **MKTG: Marketing**

### **MKTG 301 MARKETING MANAGEMENT (3)**

A basic course in the contribution of marketing to the firm or organization that includes decision-making tools for integrating product, price, distribution, and communication decisions and processes into an organization competing in a global environment.

### **MKTG 405 DIGITAL MARKETING STRATEGY (3)**

Digital media has revolutionized the interactions between firms and customers. In this course, the students will learn about the immediate impact digital media in marketing can have on reaching the customers. While digital media is not a new medium, it is still one of the main ways many businesses are launched and it helps raise online awareness through viable, engaging content; thoughtful, meaningful branding; sticky websites; all leading to higher rankings and larger audiences. Prerequisite: MKTG 301.

### **MKTG 407 INTERNATIONAL MARKETING (3)**

An application of marketing concepts and tools to international marketing problems arising in a global business environment. Prerequisites: MKTG 301.

### **MKTG 410 BUYER BEHAVIOR AND MARKETING ANALYSIS (3)**

One requirement of successful marketing is listening to the voice of the customer. Marketers need to know what customers want, when and why they want it. Buyer Behavior and Market Analysis will enable students to understand the basic buyer and company needs. In addition, students will be able to verify them with commonly used research techniques that really listen to the voice of the customer.

Prerequisite: MKTG 301 and MATH 115

### **MKTG 415 MARKETING COMMUNICATION (3)**

The course examines integrated marketing communications in the context of changes in media that have occurred since 2000. Communication theory will be the foundation of planning, implementing, evaluating and coordinating an integrated marketing communication program. There will be special emphasis on social media. Students will advance their professional competencies in written and oral communication, teamwork and critical thinking. Prerequisite: MKTG 301/ Merrick School of Business student or by permission of the instructor.

### **MKTG 420 MARKETING RESEARCH (3)**

An analysis of the methods of collecting, analyzing and interpreting marketing information, and specific applications of research to problems in the marketing field. Students build critical thinking competencies in data interpretation. Prerequisites: MKTG 301 and MATH 115

**MKTG 430 PERSONAL SELLING (3)**

Presents the sales principles and skills required by today's professional salesperson, with emphasis on both the business-to-consumer and business-to-business selling environments. Examines current approaches to a variety of selling challenges including prospecting, the selling process, closing the sale and post-sale follow-up. Presents the principles underlying the sales process and the practical application of these principles to selling situations. Studies the role of selling in the total marketing process.

Prerequisite: MKTG 301 / Merrick School of Business student/ or by permission of the instructor.

**MKTG 440 PRODUCT MANAGEMENT (3)**

Examines methods of creating new ideas, developing product prototypes, modifying existing products, evaluating market response, and commercializing and launching new products and services. Competitive and global changes, and technological, social, legal, economic and related issues are considered in the assessment of market potential, corporate resource needs and eventual success. Prerequisite: MKTG 301 / Merrick School of Business student or by permission of the instructor.

**MKTG 450 NEW VENTURE AND INDUSTRY ANALYSIS (3)**

The use of information and marketing models to analyze consumer and industrial markets. Students also build professional competencies in using computers to analyze marketing information used for market planning. Prerequisite: MKTG 301.

**MKTG 460 ADVANCED MARKETING MANAGEMENT (3)**

A study of the organization and management of a marketing-oriented enterprise using marketing cases and/or simulations to integrate the frameworks and skills from Marketing Management (MKTG 301) to analyze and plan marketing programs. Critical thinking, oral and written communication and teamwork competencies are advanced. Prerequisite: MKTG 301, senior status or permission of the department chair /Merrick School of Business student.

**MKTG 495 INTERNSHIP IN MARKETING (3)**

Provides students with practical real-world experience in an organization. The course requires a minimum of 120 hours of practical work with a qualified firm based on explicit statements of student responsibilities and a faculty/firm monitoring mechanism. Students will work closely with both the firm and a faculty member. Prerequisites: Completion of 9 hours of marketing courses, with a minimum GPA of 3.0. Completion of MGMT 330 is recommended. Permission of the department chair is required.

**MKTG 497 SPECIAL TOPICS IN MARKETING (3)**

The marketing faculty, from time to time, offer an opportunity to integrate new material into the undergraduate program reflecting changes in the field and in the educational needs of students.

Prerequisite: MKTG 301/ Merrick School of Business student or permission of the instructor.

**MKTG 499 INDEPENDENT STUDY: MARKETING (1 - 3)**

An independent study completed under the direction of a faculty member. For eligibility and procedures, refer to the Merrick School of Business Independent Study Policy. Prerequisite: Merrick School of Business student or permission of the instructor.

**MKTG 505 MARKETING ESSENTIALS (1.50)**

Covers concepts, processes and institutions necessary for effective marketing of goods and services, including analyses of market opportunities, buyer behavior, product planning, pricing, promotion and distribution. prerequisite: graduate standing

**MKTG 605 MARKETING STRATEGY (1.50)**

Explores the role of marketing in creating value for the firm and its stakeholders and examines market strategy in the context of a dynamic external environment. prerequisite: MKTG 504 or MKTG 505 or permission of the M.B.A. program director

**MKTG 615 ENTREPRENEURIAL MARKETING (1.50)**

Emphasizes market opportunity analysis, product development, creation and formulations of strategic positioning, pricing feasibility, channel strategies and promotion with limited resources in entrepreneurial and intrapreneurial settings. prerequisite: MKTG 605

**MKTG 625 CUSTOMERS AND MARKETS (1.50)**

Focuses on choosing customers and markets through data analysis, building customer loyalty and communicating to current and potential customers in B2C, B2B and nonprofit organizations. prerequisite: MKTG 605

**MKTG 635 ENTREPRENEURIAL MARKETING STRATEGY (3)**

Explores the role of marketing in creating value for the firm and its stakeholders. In particular, this course underscores market opportunity analysis, product development, creation and formulation of strategic positioning, pricing feasibility, channel strategies and communication in entrepreneurial and intrapreneurial settings with limited resources. Students may choose either MKTG 635 or MKTG 645 but credit will not be awarded for both. The 3-credit course MKTG 645 combines and updates the content of two 1.5-credit courses (MKTG 605 and 615). As such, credit will not be awarded for MKTG 635 for students who previously completed the two-course sequence.

**MKTG 645 MARKETING STRATEGY AND ANALYSIS (3)**

Explores the role of marketing in creating value for the firm and its stakeholders and examines market strategy in the context of a dynamic external environment. It also focuses on choosing customers and markets through analysis of market dynamics in B2C, B2B and nonprofit organizations. Students may choose either MKTG 635 or MKTG 645 but credit will not be awarded for both. The 3-credit course MKTG 645 combines and updates the content of two 1.5-credit courses (MKTG 605 and 625). As such, credit will not be awarded for MKTG 645 for students who previously completed the two-course sequence.

**MKTG 755 MARKETING COMMUNICATION AND SOCIAL MEDIA (3)**

Introduces students to integrated marketing communications (IMC) management and the role it plays in organizations' marketing plans. The goal of the course is to apply strategic planning and use the promotion mix to help the firm achieve its promotion objectives. The promotion mix elements include advertising, direct marketing, online marketing, sales promotion, personal selling, public relations, and a variety of social media vehicles. The course will pay special attention to the appropriate use of social media in an IMC context. Prerequisite: MKTG 635 or 645.

**MKTG 760 GLOBAL MARKETING MANAGEMENT (3)**

The theory and application of marketing in a global context. Topics include international trade and financial markets; market structures of nations; and consumption behavior related to culture, social values and economic conditions. Also considers the political and legal control over marketing activities (advertising, promotion and distribution), the growth of regional marketing arrangements relative to competitive strategies of multinational corporations, the dilemma of marketing ethics in a multicultural world and the cost-benefit of technology transfer. prerequisite: MKTG 635 or 645.

**MKTG 762 MARKET OPPORTUNITY ANALYSIS (3)**

Introduces the subject of opportunity analysis in marketing, intrapreneurship and entrepreneurship as well as the practice of their requisite skills. Includes the analysis of markets, competition, preliminary cost feasibility and intellectual property and also involves the creation and development of strategic positioning appropriate to the marketing opportunity. prerequisite: MKTG 635 or 645.

**MKTG 770 PRODUCT AND BRAND DEVELOPMENT AND MANAGEMENT (3)**

Focuses on the firm's product and brand development and management strategies with a special emphasis on innovative offerings. The influence of the social, legal and technological environment, as well as relationships with users and channel members, on the implementation of product and brand strategies are analyzed and discussed in depth. Encourages the application of the learned concepts to tangible and intangible products such as goods, services and ideas. prerequisite: MKTG 635 or 645.

**MKTG 780 MARKETING INFORMATION AND ANALYSIS (3)**

This course will provide students with skills and tools necessary to understand and evaluate market information. The course will be focused on building student knowledge on how to analyze and interpret data, and use it for business decision making. The course will use a variety of readings, cases and types of data analysis to provide students with hands-on experience with analyses related to market information. Prerequisites: MKTG 635 or 645.

**MKTG 792 SPECIAL TOPICS: (1.50)**

Explores specialized topics in marketing, allowing flexibility for both the changing developments in applied business practice and the educational needs of students. Exact topical coverage and prerequisites are listed in the schedule of classes. prerequisite: MKTG 635 or MKTG 645

**MKTG 795 GRADUATE MARKETING INTERNSHIP (3)**

Students will attain professional experience in marketing and work on assigned projects within a workplace marketing environment. Requirements include a work supervisor evaluation, a journal detail the work experience, and a self-assessment of the student's internship experience. Prerequisites: MKTG 635 and 645, graduate standing and departmental consent.

**MKTG 797 SPECIAL TOPICS: (3)**

Explores specialized topics in marketing, allowing flexibility for both the changing developments in applied business practice and the educational needs of students. Exact topical coverage and prerequisites are listed in the schedule of classes. prerequisite: MKTG 635 or 645.

**MKTG 799 INDEPENDENT STUDY (1 - 3)**

Investigation into a particular subject in more depth than can be accommodated by an existing course. Students work closely with an individual faculty member. Prerequisites: Approval of marketing instructor, faculty chair, and academic adviser and MKTG 635 or MKTG 645.

## **OPM: Operations Management**

**OPM 505 INTRODUCTION TO OPERATIONS MANAGEMENT (1.50)**

Overview of the concepts and tools used for the creation and delivery of goods and services. Describes the role of effective operations management for organizational success and competitiveness. Demonstrates approaches for improving quality, productivity, customer service and overall performance. prerequisite: graduate standing

**OPM 615 INNOVATION AND PROJECT MANAGEMENT (3)**

Covers the essentials of innovation and project management from project selection through implementation, monitoring, control and termination. Topics covered include: product/process innovation, project identification, risk and uncertainty in project management, project planning and budgeting, selecting the project team, resource allocation, implementation and control, and project evaluation and termination. prerequisite: OPM 505 or permission of instructor.

**OPM 625 OPERATIONS AND SUPPLY CHAIN MANAGEMENT (3)**

Provides in-depth coverage of the concepts, techniques and tools used to design, create, control and improve manufacturing and services operations. Topics covered include: operations strategy, quality management, high- and low-contact services, forecasting, smart pricing, procurement, global supply chains, sustainability in manufacturing and services, aggregate sales and operations planning, inventory control and operations scheduling. prerequisite: OPM 505 or MGMT 506

**OPM 740 APPLICATIONS OF ARTIFICIAL INTELLIGENCE FOR OPERATIONS AND SUPPLY CHAIN MANAGEMENT (3)**

Combining theory and practical application, this course introduces students to important principles related to developing and implementing the integration of artificial intelligence tools into key areas related to operations and supply chain management such as forecasting, quality control, service quality, production efficiency, inventory management, and route optimization.

**OPM 792 SPECIAL TOPICS IN OPERATIONS MANAGEMENT (1.50)**

An extensive exploration of topics in the area of Operations Management. Refer to class schedule and syllabus for title and further description. Prerequisites: OPM 615 or OPM 625

**OPM 797 SPECIAL TOPICS IN OPERATIONS MANAGEMENT (3)**

An extensive exploration of topics in the area of Operations Management. Refer to class schedule and syllabus for title and further description. Prerequisites: OPM 615 or OPM 625.

**OPRE: Operations Research****OPRE 202 STATISTICAL DATA ANALYSIS (3)**

A second course in the statistical analysis of data related to business activities with emphasis on applications in various functional areas including accounting, finance, management, marketing and operations management, among others. Topics include estimation, hypothesis testing, contingency tables and chi-square test, analysis of variance and covariance, simple and multiple regression analysis and correlation analysis. Computer implementation using Excel-based statistical data analysis or other relevant software and interpretation of results for business applications are emphasized. prerequisites: OPRE 201 or MATH 115.

**OPRE 315 BUSINESS ANALYTICS FOR DECISION MAKING (3)**

An introductory course in business analytics and its application to support business decision-making and improve business performance. The focus is on descriptive, and predictive analytics, including, optimization, decision analysis, data mining, data visualization, forecasting and simulation and their application to various functional areas in business such as finance, marketing, operations, and human resources. Special emphasis is placed on analytical concepts, computer implementation and communication of recommendations based on findings. Prerequisites: MATH 115 and OPRE 202

**OPRE 497 SPECIAL TOPICS IN OPERATIONS RESEARCH (3)**

An intensive exploration of topics in the area of operations research. Refer to the semester class schedule for exact title of topic offered. This course may be repeated for credit when topic changes. prerequisites: determined by the instructor, Merrick School of Business students.

**OPRE 499 INDEPENDENT STUDY: OPERATIONS RESEARCH (1 - 3)**

An independent study under the direction of a faculty member. For eligibility and procedures, refer to the Merrick School of Business Independent Study Policy. Department consent required.

**OPRE 505 FUNDAMENTALS OF STATISTICS (1.50)**

Emphasizes applications of descriptive statistics in business. Topics include basic probability concepts, summary measures of location and dispersion, discrete and continuous probability distributions, sampling distribution of mean, and introductions to confidence interval estimation and hypothesis testing. Excel-based software is used for computer implementation. prerequisite: graduate standing

**OPRE 506 MANAGERIAL STATISTICS (1.50)**

Emphasizes applications of inferential statistics in business. Topics include confidence interval estimation, hypothesis testing, analysis of variance, simple linear regression and an introduction to multiple regression. Excel-based software is used for computer implementation. prerequisite: OPRE 505

**OPRE 605 BUSINESS ANALYTICS (1.50)**

Explores business analytics and its applications to management decision-making for a range of business situations. Covers problem structuring; big data; data mining; optimization; computer simulation; decision analysis; and predictive modeling. prerequisite: OPRE 504 or OPRE 505 and OPRE 506 or equivalent or permission of the M.B.A. program director.

**OPRE 606 DATA MINING FOR BUSINESS (1.50)**

This course provides an exploration of data mining techniques to discover meaningful insights within vast and complex datasets for business problems. Students will understand the role of data mining in today's

data-driven world and gain practical skills for exploring data to extract patterns and associations, making predictions, segmenting data, and evaluating data mining models. Data mining algorithms covered in this course include single linkage cluster analysis, Kmeans, K-nearest neighbor, discriminant analysis, decision trees, market basket analysis, etc. Python is used as the main software in this course to implement data mining techniques. Students will apply data mining models to real-world case studies using Python to extract actionable knowledge from data.

### **OPRE 607 BUSINESS ANALYTICS (3)**

This course explores business analytics techniques to discover meaningful insights and support decision-making in business. Students will understand the role of business analytics in today's data-driven world and gain practical skills for exploring data to extract patterns and associations, segmenting data, making predictions, modeling uncertainty using simulation, developing and solving optimization models, and performing risk analysis.

### **OPRE 792 SPECIAL TOPICS IN OPERATIONS RESEARCH (1.50)**

Explores advanced topics in operations research of interest to faculty and students. May be repeated for credit. Prerequisites and topics are selected and printed in the schedule of classes. prerequisite: department consent

### **OPRE 797 SPECIAL TOPICS IN OPERATIONS RESEARCH (3)**

Explores advanced topics in operations research of interest to faculty and students. May be repeated for credit. Prerequisites and topics are selected and printed in the schedule of classes. prerequisite: department consent

### **OPRE 799 INDIVIDUAL RESEARCH: OPERATIONS RESEARCH (1 - 6)**

Individual research in an area of interest to the student. The expectation is that work equivalent to a regular graduate course will be completed. Formal paper(s) will be written under the supervision of a full-time faculty member. prerequisites: approval of information systems instructor, department chair and academic adviser

## **PBDS: Publications Design**

### **PBDS 854 ADVANCED WORKSHOP: PUBLISHING (3)**

Organized around publishing projects initiated by students in the doctoral program. Work is independently developed but critiqued by the class, the instructor and outside professionals. Course may be repeated for credit only with the approval of the instructor and the director of the doctoral program. Lab fee required.

## **PHIL: Philosophy**

### **PHIL 101 INTRODUCTION TO PHILOSOPHY (3)**

Introduces the fundamental questions and problems of philosophy and critically examines how some of the greatest philosophers in the history of Western cultures have attempted to answer these questions. Emphasis is placed on students' demonstration of their own abilities to seek answers to these "eternal questions." A capstone feature of the course challenges students to communicate, orally and in writing, the value of philosophical thinking in their personal lives and their chosen professions. [HIPL] [CTE] [HAT] [AH]

### **PHIL 140 CONTEMPORARY MORAL ISSUES (3)**

Explores contemporary issues of ethical concern. Students are introduced to philosophical reasoning on controversial topics, including the responsibilities of corporations, war and violence, human relationships and other currently debated matters of public policy and personal ethics. The course aims to help

students develop abilities to understand, evaluate and construct arguments in the realm of applied ethics. [HIPL] [CTE] [HAT] [AH] [IL]

### **PHIL 150 CRITICAL THINKING AND ARGUMENTS (3)**

Explores the process of thinking critically and philosophically and guides students in thinking more clearly, insightfully and effectively. In addition, this course focuses on helping students identify, understand and critically assess philosophical arguments. Students use classic philosophic texts and real-world examples to develop both their critical-thinking skills and their ability (in written and oral forms) to formulate, express and critique arguments. [HIPL] [CTE] [HAT] [AH]

### **PHIL 200 THE NATURE AND PURPOSE OF LAW (3)**

Introduces students to the nature and purpose of law by exploring a number of fundamental questions related to law and its role in our personal, social and political lives. Covers both historical and contemporary accounts of the nature of law, the relationship between law and morality, and legal reasoning, including a discussion of how judges ought to decide cases. Emphasis is on development of student's' critical-thinking and written and oral communication skills. Prerequisite; None

### **PHIL 250 SOCIAL AND POLITICAL PHILOSOPHY (3)**

Examines the values and principles that establish and justify societies and that determine the rights and responsibilities of a society to its own members; of the members in relation to each other and to the society as a whole; and of a society in relation to other societies. The course considers the application of these principles to such issues as justice, human rights, political and social institutions, and international relations. [AH]

### **PHIL 280 ENVIRONMENTAL ETHICS (3)**

Explores the relationship between humans and the nonhuman environment and guides students in thinking more clearly, insightfully and effectively about that relationship. Students read a wide array of classic and contemporary texts from a variety of philosophic traditions, and they are asked to consider some of the most pressing ethical, political and legal issues concerning our treatment of the environment. [HIPL] [CTE] [HAT] [AH]

### **PHIL 301 ETHICS (3)**

A critical examination of fundamental questions in ethics: What is good and evil? Why be moral? What is right and wrong moral conduct? What does it take to be a good person, and what does it mean to live a good life? Students read a balanced selection of classical and contemporary works and explore a variety of moral issues in personal and professional life.

### **PHIL 302 PHILOSOPHY OF COMMUNITY (3)**

Covers some of the basic concerns raised by the cosmopolitan liberalism and communitarian critique. The goals are to help students think through the arguments on each side of this debate and to help figure out for themselves the extent to which they want their lives and the policies of the communities in which they live to reflect either cosmopolitan liberal or communitarian commitments.

### **PHIL 305 PROFESSIONAL ETHICS IN HUMAN SERVICES (3)**

An examination of values, moral principles and ethical issues inherent in, and related to, the human service professions. The major focus is directed toward determining the moral responsibilities of the human service professions and whether the moral responsibilities are being realized.

### **PHIL 309 EASTERN RELIGIONS (3)**

A study of the history, beliefs and rituals of Hinduism, Buddhism, Taoism, Confucianism and Shinto

### **PHIL 316 LOGIC OF LANGUAGE (3)**

An introduction to informal and formal logic. The use and abuse of language in general is first considered, then informal fallacies are examined. Next, deductive, inductive and analogical arguments are distinguished. The remainder of the course is devoted to examining the formal structures of descriptive language and the formal rules of logic.

### **PHIL 317 ANCIENT PHILOSOPHY (3)**

A critical examination of the questions, systems and contributions of the most influential philosophers of Western antiquity. The pre-Socratics and their legacy of questions and world views are first considered. The philosophies of Plato and Aristotle are examined next in light of the attempts of both philosophers to deal with the inherited questions of pre-Socratics and the moral and cultural problems of their time. Concludes with a look at the Epicurean, Stoic and Neo-Platonist philosophies and the influence of Neo-Platonism on Christian theology. [AH]

### **PHIL 319 MODERN PHILOSOPHY (3)**

Traces the development and influence of British empiricism and continental rationalism from the scientific revolution of the 17th century through the age of reason, the romantic rebellion and the industrial revolution, and the rise of nationalism. Philosophers to be studied are Descartes, Locke, Berkeley, Hume, Kant, Rousseau, Mill, Hegel, Marx and Nietzsche. [AH]

### **PHIL 320 20TH CENTURY PHILOSOPHY (3)**

A critical examination of the most influential American and European philosophers of the 20th century. Emphasis is placed on the rebellion against 19th-century idealism and metaphysics as manifested in the two divergent and predominant contemporary philosophies: existentialism and analytic philosophy. Russell, Moore, Wittgenstein, Whitehead, Bergson, James, Dewey, Sartre, Kafka and Camus are among the philosophers considered. [AH]

### **PHIL 321 PHILOSOPHERS THAT CHANGED THE WORLD (3)**

Surveys one or more great philosophers of the instructor's choosing in the history of philosophy. Exposes students to an in-depth study of each of the chosen philosopher's ideas and how those ideas changed the world and continue to shape peoples' current understandings. Emphasizes careful study of philosophical texts.

### **PHIL 322 GOD, PHILOSOPHY, AND RELIGION (3)**

Examines diverse answers to fundamental questions about religion that have intrigued and puzzled human beings throughout history. Does God exist? If so, what can humans know about God, if anything? If God doesn't exist, could there still be meaning in the universe? To what extent are these questions of reason versus questions of faith? What is evil and why does it exist? Is there life after death? Whether immersed in a religious tradition or not, a proponent of religious belief or a skeptic, this course considers a range of the most influential writings ever created to respond to basic religious questions. [AH] [GD]

### **PHIL 419 THE WORLD'S RELIGIONS IN AMERICA (3)**

Considers Christianity, Judaism, Islam, Hinduism, Buddhism, Native American and other major religions practiced on the American continent. What are these religions about, all of which are practiced in the United States and most of which are practiced within a short walk from the University of Baltimore? The approach is to study the most fundamental ideas at the core of each religion to consider what makes each tradition distinctive and how they relate to each other. The course may include visits to nearby religious institutions. [AH]

### **PHIL 450 AI AND PHILOSOPHY (3)**

Examines the most recent developments in artificial intelligence (AI) in relation to philosophical questions prompted by this farreaching technology. What is mind and consciousness in human beings, and to what extent does AI have the potential to replicate these qualities? What are the most important ethical, legal, and political impacts raised by AI developments? The class guides students in thinking more clearly and systematically about how to address these and other philosophical questions related to AI. Students read a wide variety of classic and contemporary texts from diverse philosophical traditions. Course activities include extensive use of AI.

### **PHIL 460 MORAL LEADERSHIP AND THE PURSUIT OF EXCELLENCE (3)**

Introduces a range of diverse philosophical writings about the nature of moral leadership and excellence. What are the special qualities that enable someone to become a moral leader? What kind of knowledge and character do moral leaders have? When moral leaders pursue excellence, what kind of excellence is this? Is "morality" irreducibly subjective or are there objective standards to moral leadership? Beginning



with philosophical accounts such as Aristotle's ethics and Socrates' trial and death, and continuing through contemporary literature, such as in the life and writings of Martin Luther King, Jr., philosophers and theologians, among others, have tackled the most fundamental questions of moral leadership. This course presents some of the best philosophical writings on the nature of moral leadership and excellence and applies these ideas for understanding the current world and our roles within it.

**PHIL 470 PHILOSOPHY AND AMERICAN SOCIETY (3)**

Develops the notion of public philosophy in American society, integrating civics education, democratic theory, and social and political philosophy. Ranging from Supreme Court decisions to political debate to the distinctive nature of American philosophy, the course explores fundamental philosophical arguments that have shaped and influenced American life.

**PHIL 480 PHILOSOPHY, LAW, AND CURRENT EVENTS (3)**

Studies the intersection of philosophical ideas with current events, with a special focus on law-related events, as well as politics, government and economics. The main text is typically the print edition of a nationally or internationally respected newspaper or periodical, such as The New York Times or The Economist. Students read the paper / periodical alongside a selection of philosophical writings relevant to understanding domestic and international news. The course offers the unique format of studying a newspaper or periodical closely as a main text. The approach is to show how a philosophical analysis of this range of information provides value and insight, and develops a life skill, for whatever educational objectives students wish to pursue. The aim is both to understand the relevance and application of important philosophical ideas to current events, and to deepen the ability to address enduring philosophical questions through a study of current events.

**PHIL 490 THEORIES OF JUSTICE (3)**

Examines competing classical and contemporary theories of justice at the foundations of law and morality, from such philosophers as Plato, Kant, Rousseau, Marx, Rawls and others from diverse traditions. Demands for justice are often deep and enduring, and their claims create deep intellectual disagreements: What is justice? What does it mean to be a just person or to live within just institutions? What is the nature of injustice and wronging others? The course examines concepts often at the center of competing ideas of justice, including equality, the rule of law, human rights, the common good, the social contract, what people deserve, sovereignty and liberty. These concepts shape social, economic and political institutions, as well as our personal lives. [AH]

**PHIL 492 INDEPENDENT STUDY (1 - 6)**

Provides for individual work in research. prerequisites: presentation of a research proposal to the divisional chair, and permission of the chair and instructor. prerequisites: 3.5 GPA and permission of the Denit Honors Program director

**PHIL 493 HONORS SEMINAR (3)**

An advanced interdisciplinary seminar that focuses on important books and issues and encourages independent thinking, clear presentation and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. prerequisites: 3.5 GPA and permission of the Denit Honors Program director

**PHIL 494 HONORS PROJECT (1 - 6)**

Directed individual instruction in an advanced project of the student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a continuing studies grade. prerequisites: 3.5 GPA and permission of both the Denit Honors Program director and the faculty director

**PHIL 495 EXISTENTIALISM (3)**

An in-depth study of one of the most provocative philosophies of the modern age. The major works of the leading philosophers of the movement are examined as well as the expression of their philosophies in contemporary art, poetry, fiction and cinema.

**PHIL 496 INTERNATIONAL LAW AND MORALITY (3)**

Explores the relationship between international law and morality and guides students in thinking more clearly, insightfully and effectively about the various legal, political and social institutions that make up the international legal regime. Students read a wide array of classic and contemporary texts from a variety of philosophic traditions, and they are asked to consider some of the most pressing conceptual and ethical issues concerning international law. [AH] [GD]

**PHIL 497 SPECIAL TOPICS IN PHILOSOPHY (3)**

Intensive exploration of topics in philosophy of mutual interest to faculty and students. Content varies according to the concurrent interests of faculty and students. The subject studied appears under the Topics heading in the class schedule. Course may be repeated for credit when topic changes.

**PHIL 498 INTERNSHIP IN PHILOSOPHY, LAW, AND ETHICS (1 - 3)**

Designed for students who wish to observe and gain firsthand experience at designated profit or nonprofit organizations in the greater Baltimore community. Students work with a mentor at the organization to write a substantial essay (15-25 pages) or academic equivalent that integrates the internship experience with academic content in the Philosophy, Law and Ethics major, guided by the faculty program director or designee. Eligible for a continuing studies (CS) grade. prerequisites: interview with and permission from the PLE faculty program director prior to the internship

**PHIL 499 CAPSTONE IN PHILOSOPHY, LAW AND ETHICS (3)**

A culmination of the student's program of study in the Philosophy, Law and Ethics program. Required for all PLE majors. Students complete a capstone paper as part of an approved cross-listed 400-level course, integrating course content across the major as part of the capstone project. prerequisite: permission of program director, normally all other required courses in the major must be completed or concurrent [CAP]

**PHSC: Physical Science**

**PHSC 101 EARTH IN FOCUS (3)**

A study of the origins, composition and physical processes of our planet. The Earth's land masses, bodies of water and atmosphere are examined. Natural phenomena such as earthquakes, volcanic eruptions and global weather patterns are explained. Includes a discussion of environmental issues that directly impact people, such as industrial pollution, depletion of natural resources and global warming. [GSCI] [QQT] [BPS]

**PPIA: Policy, Politics and International Affairs**

**PPIA 201 AMERICAN GOVERNMENT (3)**

This course is the basic American government course required of all government and Public Policy majors. This is an introduction to American ideology, government, and politics. The course also serves as a basic social science course available as a general elective for all undergraduate majors. Prerequisite: None. [GIK] [QQT] [SBS]

**PPIA 210 INTRO TO GLOBAL AFFAIRS (3)**

Introduces concepts within international studies. Students learn how history, geography, culture, politics and economics affect the approach taken by various actors in international relations. Through critical analysis, this course examines the role world politics plays in a variety of global issues and challenges. [QQT] [SBS] [GD]

**PPIA 279 SPECIAL TOPICS IN INTERNATIONAL AFFAIRS (3)**

Exploration of topics in international affairs. Content varies depending upon the interests of faculty and students and may include studies in comparative or regional politics, international or global issues, or issues in foreign policy. Course may be repeated when topic changes. Prerequisite: Depends on course topic and level of difficulty.

**PPIA 284 POLITICS IN COMPARATIVE PERSPECTIVE (3)**

Politics in Comparative Perspective is designed to introduce students to the study of politics and Political Science. The course covers basic concepts in Comparative Politics including ideologies, political behavior, and political institutions. These concepts are used to explore the political experiences of representative countries from the Western Democratic, Transitional, and Developing worlds. Coverage is also given to the impact of globalization on selected countries. Specific countries covered will vary with instructor. Prerequisites: None [GIK] [QQT] [SBS]

**PPIA 297 TOPICS IN POLITICS AND POLICY (1 - 3)**

Exploration of topics in politics and policy. The actual topic of the course will appear in the schedule of classes. Prerequisite; depends on course topic and level of difficulty.

**PPIA 300 AMERICAN POLITICAL INSTITUTIONS (3)**

The role and interrelationship of the federal, state, and local governments in the formulation and implementation of public policy are examined. Major contemporary issues are explored to illustrate the policy making process. The specific policy issues studied vary from semester to semester.

**PPIA 315 PUBLIC POLICY ANALYSIS (3)**

Students will gain a foundation in policy analysis -the process of creating, critically assessing and communicating information to determine which of various policy alternatives will best achieve a given goal(s) within the American policy arena. Students will understand the policy process and analysis by: Defining, assessing, and describing public problems; Identifying policy goals and criteria to assess possible strategies; Crafting appropriate policy options by borrowing, adapting, and creating; Analyzing and predicting the effects of alternative policy options; and Communicating policy advice in written and oral presentations. Prerequisites: None.

**PPIA 320 INTRO TO PUBLIC SERVICE (3)**

The problems of municipal, state, and federal governments as these relate to organization, budgeting, personnel, welfare, control, reporting, public relations, federal-state-local relations, the city government in society, and the division of state and federal powers.

**PPIA 321 LEADERSHIP (3)**

Leadership is critical in the delivery of government services and in maintaining our democracy. This course will actively engage students in theories, traits, concepts and behaviors of leadership. Students will learn tasks, skills, and profession competencies to become effective leaders in government and non-profit organizations.

**PPIA 322 BUREAUCRACY AND PUBLIC POLICY (3)**

An understanding of the institutional political, legal, and ethical challenges of public policy management in the contemporary administrative state

**PPIA 324 AMERICAN PUBLIC POLICY (3)**

Analysis of the formulation and implementation of governmental policies at all levels in such policy areas as art and cultural policy, economic stability, income maintenance, education, the environment, public finance, and older adult policy. Prerequisite: GVPP 300 or permission of instructor.

**PPIA 326 URBAN POLITICS AND PUBLIC POLICY (3)**

An examination of the organization and main functions of urban government, the major participants and key issues in the urban political process, and the political relationship between cities and other levels of government. The distinctive characteristics of the political process in the urban setting with special emphasis on Baltimore.

**PPIA 340 CONSTITUTIONAL LAW (3)**

The role of the Constitution in the American system of government. Origins and historical development of the Constitution, the theory and operation of the federal court, and the effects of Supreme Court decisions on the relationship between different branches of government and on the rights of individuals in American society.

**PPIA 341 CIVIL LIBERTIES AND THE BILL OF RIGHTS (3)**

An advanced course about constitutional law that focuses on the Bill of Rights and issues of civil liberties that have arisen as the Supreme Court has changed its interpretation of the Constitutional basis of decisions related to those rights. The course stresses legal reasoning and research skills; it also provides information about Constitutional issues in relation to American governmental processes and policies.

Suggested prerequisite: GVPP 340.

**PPIA 344 AMERICAN PRESIDENCY (3)**

An examination of the presidency in the American system of government. The powers of and limits on the president are studied as are the relationships between the president and other major actors in the political system.

**PPIA 345 THE LEGISLATIVE PROCESS (3)**

An examination of legislatures in the American system of government. Emphasis is placed on the study of the representative function of legislatures, of the ways in which they operate, and their impact on public policy.

**PPIA 348 STATE AND LOCAL GOVERNMENT (3)**

Emphasis on the organization, powers, and functions of state, local, county, and municipal governments. Government in theory and practice at different levels in the state of Maryland.

**PPIA 360 PARTIES, CAMPAIGNS, AND ELECTIONS (3)**

A study of the rise, history, and functions of political parties in the United States. Campaign management and strategies as well as electoral tactics and movements are also examined.

**PPIA 362 MEDIA AND GOVERNMENT (3)**

A study of relationships among governments, public opinion, and the media. Analysis of the components of public opinion and their individual and collective influence on government. The functioning of the media and their influence on both government and public opinion.

**PPIA 381 AMERICAN POLITICAL THOUGHT (3)**

A study of the political thought in the United States that has provided the foundations of American democracy from colonial times to the present, focusing on political concepts, principles, ideas, and issues.

**PPIA 382 POLITICAL IDEOLOGIES (3)**

Focuses on the philosophical and ideological bases for the state. The political economy and social structure of governing ideologies are examined and illustrated in discussions about democracy, capitalism, liberalism, fascism, communism, and socialism. Challenges to these ideologies as presented by religion and nationalism are also discussed.

**PPIA 384 COMPARATIVE GOVERNMENT (3)**

An examination of the historical and social background, political process, governments, and institutions of representative foreign governments, including Great Britain, France, and Germany. The identification, comparison, and evaluation of the main components and characteristics of the governing process are examined

**PPIA 385 THEORIES OF INTERNATIONAL RELATIONS (3)**

A survey course of global events and processes. This course covers issues of war and peace, arms and armaments, international governmental and non-governmental organizations, the politics of global economic relations both amongst nations of the developed north and between northern and southern states. Humanitarian and environmental issues will also be covered. Emerging trends in globalization, terrorism, and ethnic conflict will be considered. prerequisites: PPIA 210 or CNCM 102.

**PPIA 386 AMERICAN FOREIGN POLICY (3)**

An examination of the political, economic, and military considerations involved in the formulation and implementation of United States foreign policy. Included are the constitutional responsibilities for foreign policy, the economic context, military doctrine and the country's traditional international relationships.

**PPIA 408 METHODS IN GOVERNMENT AND PUBLIC POLICY (3)**

Focuses on research and analytical techniques, statistical measurement, and methods of science used in the study of governmental organizations, elections, political behavior, and policy analysis. [IL]

**PPIA 410 DIVERSITY IN PUBLIC SERVICE (3)**

Addresses the demographic dimensions of diversity including race, ethnicity, sex, disability, gender, pregnancy, sexual orientation, and transsexual in public service. Provides a theoretical as well as a historical framework for understanding contemporary prejudice and discrimination. Representative bureaucracy, critical race theory, and intersectionality are described. Explores ongoing disparities in America, and its impact in education, employment, health, wealth, and incarceration. [GD]

**PPIA 423 PUBLIC BUDGETING AND HUMAN RESOURCE MANAGEMENT (3)**

Focuses on budgeting and personnel administration at the national, state and local government levels. Examined are the form, content, and processes of public budget development, and its review, execution, and management; also examined are the principles and functions of public personnel management, salary, schedules, unions, performance evaluation, and retirement. Prerequisite: PPIA 320 or permission of the instructor.

**PPIA 425 ADMINISTRATIVE LAW AND PROCESSES (3)**

The growth of the administrative process in the United States, the necessity for the delegation of legislative authority to administrative agencies, and the need for judicial control of the bureaucracy. Emphasis on federal, as well as State of Maryland, administrative and regulatory processes.

**PPIA 426 FOUNDATIONS OF DEMOCRACY I (3)**

This course examines the scope and nature of the fundamental values that are reflected in our system of democratic governance. Democracy joins individual citizens, neighbors and communities. Acting together they form the essence of an associational life-- that is to say, a life lived with reciprocal linkages to the well-being of others and to the common good. Particular attention will be placed on the decision making and organizational design systems that characterize our social, political and economic institutions, as well as community-serving nonprofits.

**PPIA 461 MARYLAND GOVERNMENT PROCESSES AND POLITICS (3)**

A study of the structure of Maryland's three branches of government and their relationship to interest groups, political parties, and public policies.

**PPIA 463 INTEREST GROUP POLITICS AND LOBBYING (3)**

Examined within this course are interest groups as key components in the functioning of a pluralistic political system. The proliferation of interests from trade associations to the public, nonprofit interests will be documented. Also explored are the techniques of lobbying.

**PPIA 470 INDIVIDUAL RESEARCH (1 - 3)**

Individual research on a subject of mutual interest to both student and supervisory faculty. Depending on the scope and depth of research, from one to three credits may be earned for the successful completion of this course. The student may, upon approval, take up to two such courses. Prerequisite: A minimum of 12 credit hours in political science courses earned at the University of Baltimore and approval of the program director. This course may be taken for a continuing studies (CS) grade.

**PPIA 471 INDIVIDUAL RESEARCH (1 - 3)**

Individual research on a subject of mutual interest to both student and supervisory faculty. Depending on the scope and depth of research, from one to three credits may be earned for the successful completion of this course. The student may, upon approval, take up to two such courses. Prerequisite: A minimum of 12 credit hours in political science courses earned at the University of Baltimore and approval of the program director. This course may be taken for a continuing studies (CS) grade.

**PPIA 479 SPECIAL TOPICS IN INTERNATIONAL STUDIES (3)**

Selected topics in International Relations and/or Comparative Politics of mutual interest to faculty and students are examined in depth. Content varies according to the concurrent interests of faculty and students. The topic for study will appear under that name in the Schedule of Classes. Course may be repeated for credit when topic changes. Prerequisites: None

**PPIA 480 ENVIRONMENTAL POLITICS AND POLICY (3)**

Environmental politics and policy focuses on the process of public decision making as it relates to national and global environmental issues. The course will address policy making institutions and political behavior and how these have shaped American responses to such issues as clean air and water, energy use, and natural resource consumption, among others. The course will explore how agencies use risk assessment and other decision tools to establish regulatory objectives and how tax, regulatory and other policy tools are used to manage the environment. Prerequisites: None

**PPIA 481 GLOBALIZATION (3)**

This course is an examination of the rapid global changes shaping society. Students examine the social, economic, and political effects of a more connected world. Transnational problems requiring transnational solutions are presented as an integral part of 21st century global connectivity and affect how actors view national identities, economies, and public policy. Prerequisites: none

**PPIA 482 TOPICS IN POLITICAL THEORY (3)**

Selected political theory examines perennial issues in political thought within the frameworks of classical, medieval, renaissance, enlightenment, and modern political theory. Course may be repeated for credit when topic changes.

**PPIA 484 INTERNATIONAL POLITICAL ECONOMY (3)**

Examination of the rapid changes in the postwar system of trade, production and finance. Students are exposed to discussions concerning the impact that these changes have presented to national identities and the public policy responses undertaken by states to maintain and enhance their position in the global trading system

**PPIA 485 THE FAR EAST IN WORLD AFFAIRS (3)**

Political, economic, and military aspects of India, Japan and Southeast Asia. Emphasis upon their - contemporary foreign relations.

**PPIA 486 THE MIDDLE EAST (3)**

Political, economic, and military aspects of Turkey, Iran, Egypt, and the other Arab states, Israel, and the eastern Mediterranean. Emphasis on foreign relations. The interrelationship of these powers and their relationships with Western European powers, Russia, the People's Republic of China, and the United States.

**PPIA 487 WESTERN EUROPE (3)**

Political, economic, and military aspects of Austria, the Benelux countries, France, Italy, and Germany. Emphasis upon their contemporary foreign relations

**PPIA 488 THE COMMONWEALTH OF INDEPENDENT STATES & CHINA IN WORLD AFFAIRS (3)**

International relations of the Commonwealth of Independent States and the People's Republic of China. An example of the political, economic, and military considerations of these two countries in the conduct of their relationships.

**PPIA 489 GLOBAL GOVERNANCE (3)**

Explores the role of international organizations, regimes, states, and non-state actors in global governance. In an increasingly globalized world where conflict, disease, financial crises, migration, and climate change cannot be solely addressed by individual states alone, cooperation and concerted efforts are necessary to address current transnational challenges. As such, this course addresses the important role global governance structures and agents, both in their informal and formal settings, play in coordinating responses to challenges faced in our current global environment.

**PPIA 490 INTERNSHIP (3)**

Internship designed to broaden the educational experience of the student through work assignments with appropriate governmental agencies. Depending upon the academic value of the work assignments, the student may enroll for up to a total of six credits in this internship. Prerequisites: major in government and public policy or jurisprudence, minimum of 12 credits completed in PPIA courses with a GPA of at least 3.0, and approval of the program director. This course may be taken for a continuing studies (CS) grade.

**PPIA 491 INTERNSHIP II (3)**

Internship designed to broaden the educational experience of the student through work assignments with appropriate governmental agencies. Depending upon the academic value of the work assignments, the student may enroll for up to a total of six credits in this internship. Prerequisites: major in government and public policy or jurisprudence, minimum of 12 credits completed in PPIA courses with a GPA of at least 3.0, and approval of the program director. This course may be taken for a continuing studies (CS) grade.

**PPIA 493 HONORS SEMINAR (3)**

An advanced interdisciplinary seminar that focuses on important books and issues, encourages independent thinking, clear presentation, and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. Prerequisites: 3.3 GPA and permission of the Honors Director.

**PPIA 494 HONORS PROJECT (3 - 6)**

Directed individual instruction in an advanced project of the student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a continuing studies grade. prerequisites: 3.3 GPA and permission of both the Denit Honors Program director and the faculty director.

**PPIA 497 TOPICS IN GOVERNMENT AND PUBLIC POLICY (3)**

Intensive exploration of topics in political science of mutual interest to faculty and students. Content varies according to the concurrent interests of faculty and students. The topic for study will appear under that name in the Class Schedule.

**PPIA 499 CAPSTONE IN PUBLIC SERVICE (3)**

A senior-level seminar required of all government and public policy majors. Topics considered include the perspectives of the major sub-fields of government and public policy and their relations with other disciplines. Students demonstrate their abilities to analyze, assess, and write about relevant issues and practices in government and public administration. Open to non-government and public policy majors only by permission of the instructor. [CAP]

## **PSYC: Psychology**

**PSYC 100 INTRODUCTION TO PSYCHOLOGY (3)**

PSYC 100 Introduction to Psychology (3) This survey course is an introduction to the science of psychology, with an explicit focus on the understanding of human behavior and experience. Methods used by psychologists to investigate behavior and experience are introduced, and an overview of the major fields of psychology is provided, including discussion of each area's primary theories and models. [SOSC] [GIK] [QQT] [SBS]

**PSYC 200 INTRODUCTION TO PROFESSIONAL PRACTICES (3)**

Psychology majors learn the problems, methods, thinking styles, ethical standards and career opportunities of modern behavioral science and practice. Students participate in classroom discussion on topics of current concern in psychology, practice the writing style of the American Psychological Association and acquire effective methods for developing a professional resume. prerequisites: PSYC

100 and satisfaction of lower-division general-education requirement in composition or their equivalents [IL]

**PSYC 205 HUMAN DEVELOPMENT (3)**

The psychological aspects of the human growth and development process from conception and birth through childhood, adolescence, adulthood and old age. Included are the physical, social and emotional influences on the course of development in role, identity and goal orientation. prerequisite: PSYC 100 [SBS]

**PSYC 210 INTERPERSONAL PSYCHOLOGY (3)**

Provides an overview of the processes involved in the development, maintenance and dissolution of friendships and romantic relationships. Offers an examination of topics such as interpersonal attraction, love, sexuality, conflict and communication prerequisite: none

**PSYC 215 HUMAN SEXUALITY (3)**

Reviews the psychological literature on human sexuality, including behavioral patterns, life-cycle changes, interpersonal attraction and the scientific study of love. Sexual functioning throughout the lifespan is discussed, in addition to how it may be influenced by one's gender, age, sexual orientation, religion, culture and racial/ethnic background. Topics may include female and male anatomy, love and sexuality, intimacy, trust and sexual expression, date rape, the sexual response cycle, sexually transmitted diseases, and birth control and contraception.

**PSYC 220 STRESS IDENTIFICATION AND MANAGEMENT (3)**

A study of the interaction between a human's environment and psycho-physiological systems involved in the generation of stress and development of related disease processes. The use of electronic instrumentation in the evaluation and amelioration of stress reactions and –research is examined.

Techniques and strategies of stress management are discussed. Laboratory fee required. prerequisite: PSYC 100 or an equivalent introductory psychology course or permission of the program director

**PSYC 230 BEHAVIOR MODIFICATION IN APPLIED SETTINGS (3)**

Application of operant learning theory to problems in everyday life. Students design, conduct and report on their own, self-regulated behavior change programs based on principles of the “ABC” model of learning. Topics include how to identify, define and collect information on problem behaviors, how to select effective consequences for those behaviors, and how to maintain desirable behaviors in new settings. No prior psychology coursework is required.

**PSYC 250 SOCIAL PSYCHOLOGY (3)**

A consideration of the individual in social situations, and of the social environment as a source of psychological stimulations and social conflicts. Prerequisite: PSYC 100 or an equivalent introductory psychology course, or permission of program director.

**PSYC 260 PSYCHOLOGY OF RELIGION AND SPIRITUALITY (3)**

An in-depth, research-based survey of the study of the origins, development and consequences of religion and spirituality from a psychological perspective. The relationship between religion and social-psychological variables in particular is investigated. Religious experiences from a variety of perspectives, including the objective, Freudian, Jungian and humanistic, are examined. The relationship between science and religion is also addressed. prerequisite: PSYC 100 or an equivalent introductory psychology course or permission of the program director

**PSYC 270 POSITIVE PSYCHOLOGY (3)**

Provides an overview of the processes involved in developing and maintaining the strengths and virtues that enable individuals and communities to thrive. Explores the correlates of life satisfaction and examines empirical science and practical strategies for promoting well-being, quality of life and resilience.. prerequisite: none

**PSYC 280 PSYCHOLOGY IN THE MEDIA (3)**

Media representations of psychological phenomena are ubiquitous-and often wrong. Using a generalist approach, students read scientifically supported literature on a variety of psychological topics, and watch,



read or listen to relevant media depictions. Emphasis will be on critically analyzing the media representation. This course is writing intensive. prerequisite: PSYC 100

### **PSYC 297 TOPICS IN PSYCHOLOGY (3)**

Introductory exploration of issues, concepts, and methods in psychology. Topics will vary according to interests of students and faculty; the current subject appears under the Topic heading in the class schedule. Course may be repeated when topic changes. Prerequisite: PSYC 100 or permission of program director.

### **PSYC 300 HISTORY AND SYSTEMS IN PSYCHOLOGY (3)**

The historical development of the major schools and systems of psychology. The philosophical underpinnings of the discipline are discussed. Students are instructed in the social and cultural variables that contributed to the development of psychology as a science. Connections are made between the early schools of psychology and contemporary perspectives in psychology. The growth and development of applied psychology and the professionalization of psychology are also described. prerequisite: PSYC 100 or an equivalent introductory psychology course or permission of the program director

### **PSYC 305 MULTICULTURAL PSYCHOLOGY (3)**

Educates, sensitizes and stimulates students' critical thinking about various cultural identities (such as race, gender, and sexual orientation) and the intersection of multiple cultural identities. Includes discussion of underserved and marginalized groups and the prevention and remediation of social and mental health issues through social justice advocacy. Engages students in experiential activities, self-reflection exercises and classroom discussions focused on the interdependence among individuals, communities and institutions in society, and how the cycle of socialization perpetuates systemic oppression and imbalances of power and privilege in society. Prerequisite: PSYC 200 or permission of the undergraduate program director for psychology.[GD]

### **PSYC 308 RESEARCH METHODS AND STATISTICS I (3)**

Integrated study of descriptive psychological research methods and corresponding statistical concepts. Topics include ethical considerations, observational and survey research techniques, graphing, central tendency and variability, correlation and linear regression. Students participate in data collection, data analysis and interpretation by means of the microcomputer Statistical Package for the Social Sciences (SPSS) and in the writing of APA-style research reports. Prerequisite: PSYC 200. Corequisite: WRIT 300

### **PSYC 309 RESEARCH METHODS AND STATISTICS II (3)**

Integrated study of experimental and quasi-experimental psychological research methods and corresponding statistical concepts. Topics include basic probability theory, the logic of hypothesis testing, simple and complete experimental design and analysis, internal and external validity of experimental results, and nonparametric research and analysis of techniques. Students participate in data collection, data analysis and interpretation by means of the microcomputer Statistical Package for the Social Sciences (SPSS) and in the writing of APA-style research reports. Prerequisite: PSYC 308

### **PSYC 315 MOTIVATION (3)**

An exploration of internal and external forces that initiate, direct and sustain behavior. This course examines biological, cognitive and social psychological theories of motivation and their applications in a variety of real-life contexts. Students are encouraged to consider how these theories can increase their understandings of their own and others' behavior. prerequisite: PSYC 100 or an equivalent introductory psychology course or permission of the program director

### **PSYC 320 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY (3)**

Psychological principles and methods applied to problems commonly encountered in business and industry. Topics include personnel selection and evaluation, training and development, attitudes and motivation, leadership, group dynamics, organizational structure and climate, and job design and working conditions. prerequisite: PSYC 100 or an equivalent introductory psychology course or permission of the program director

### **PSYC 325 FORENSIC PSYCHOLOGY (3)**

A survey of the broad field of forensic psychology, including roles that psychological knowledge, theory and practice have played with respect to issues of law and the legal system. Topics include psychological theories of crime, the psychological evaluation of criminal suspects, factors influencing the reliability of eyewitness testimony and psychological models of jury selection, among others. Students also learn the opportunities, demands and responsibilities associated with careers as forensic psychologists.

prerequisite: PSYC 100 or CRJU 306

**PSYC 330 HEALTH PSYCHOLOGY (3)**

Scientific psychology as applied to enhance health, prevent and treat disease, identify risk factors, improve the health-care system and shape public opinion with regard to health. The course focuses on the biopsychosocial model of health and the interactive influences of biological, behavioral and social factors on health, well-being and illness. prerequisite: PSYC 100 or an equivalent introductory psychology course or permission of the program director

**PSYC 335 THEORIES OF PERSONALITY (3)**

A study of contemporary theories attempting to describe, understand, explain, measure and predict the human as an integrated being. Laboratory fee required. prerequisite: PSYC 100 or an equivalent introductory psychology course or permission of the program director

**PSYC 340 COUNSELING PSYCHOLOGY (3)**

An introduction to the applied psychology field of counseling. History, theories and processes of counseling are surveyed, as are a variety of specializations and settings in which counseling is practiced. Discussions, demonstrations and exercises give students an opportunity to explore counseling psychology as a career path. prerequisite: PSYC 100 or an equivalent introductory psychology course or permission of the program director

**PSYC 345 COGNITIVE PSYCHOLOGY (3)**

An introduction to the scientific study of the mind, including historical and current issues, concepts, theoretical models, research methods and evidence regarding the physiological and psychological mechanisms, processes and content of thought. prerequisite: PSYC 100 or an equivalent introductory psychology course or permission of the program director

**PSYC 350 ABNORMAL PSYCHOLOGY (3)**

An analysis of abnormal behavior as a personal, social and societal concern. Research findings relevant to diagnostic and therapeutic issues are studied. prerequisite: PSYC 100 or an equivalent introductory psychology course or permission of the program director

**PSYC 355 INTERVIEWING PSYCHOLOGY (3)**

A consideration of the principles and techniques of the interview as a personnel selection or research tool. Designed for students interested in the utilization of interview information in applied settings.

**PSYC 365 PSYCHOLOGY OF GENDER (3)**

Explores the psychological, sociocultural, emotional, behavioral and physiological influences on the lives of women and men. The course focuses specifically on the psychological literature that addresses the many ways gender affects our experience. This course is designed to facilitate greater understanding of the unique expectations, constraints, dilemmas and experiences that face women and men. prerequisite: PSYC 100

**PSYC 375 ENVIRONMENTAL PSYCHOLOGY (3)**

Explores interrelationships between humans and the physical environment, both natural and constructed. This course surveys theories and evidence from various subdisciplines in psychology and applies this knowledge to an understanding of how human behavior affects an environment and how that environment, in turn, influences behavior. The course also explores the manipulation of psychological variables to design environments that promote specific behaviors. prerequisite: PSYC 100 or an equivalent introductory psychology course

**PSYC 380 COMMUNITY PSYCHOLOGY (3)**

An introduction of psychology majors and others to the career path of community psychology. The interdependence among individuals, their communities, and their environments is explored, with foci on local and regional social issues and policies, underserved and marginalized groups, prevention of social and mental health problems and related concepts such as social justice and social change. Prerequisites: PSYC 100.

### **PSYC 400 LEARNING AND MEMORY (3)**

Investigates how behavior in the present is guided by past experiences. Examines the ways in which memory can succeed or fail, and how memory integrity changes across the lifespan. Applications of this theoretical content to real world settings (e.g., advertising, the legal system, or the classroom) are discussed. Students will also explore the neurobiological basis of learning and memory by surveying animal conditioning research, both classic and contemporary. Prerequisite: PSYC 300

### **PSYC 403 TRAINING AND DEVELOPMENT (3)**

A comprehensive course designed to help the student develop the skills necessary to design and implement effective training programs. The course will investigate needs assessments, the development of appropriate training efforts, and the use of training program evaluations. Techniques included are the use of technology in CBT and web-based training. Prerequisites: PSYC 100 or equivalent introductory psychology class, or permission of the Program Director. Laboratory fee.

### **PSYC 404 ORGANIZATIONAL CONSULTING (3)**

An upper-level, practitioner-oriented course. Students explore and develop skill sets necessary to consult successfully with various client systems. Using experiential learning settings, the focus is on demonstrating techniques of engaging, contracting, deploying interventions strategies and disengaging the client. Internal and external consulting models are included. Laboratory fee required. prerequisite: PSYC 100 or an equivalent introductory psychology course or permission of the program director

### **PSYC 405 TESTS AND MEASUREMENTS (3)**

Introduction to the requirements for instruments used in the measurement of human behavior. Includes a study of the theory and methods of psychological measurement and a review of several representative types of tests. Laboratory fee required. prerequisites: PSYC 100 or an equivalent introductory psychology course and PSYC 309 or permission of the program director

### **PSYC 413 PSYCHOPATHOLOGY (3)**

An upper-division course preparing students for practice in any health-related field or for graduate school. Students learn about the symptoms, etiology, course, outcome and (to a minor extent) treatment of the major child and adult mental disorders from a biopsychosocial and multicultural perspective. Course materials focus on original sources and scholarly reviews to encourage critical and integrative thinking. prerequisites: PSYC 100 or an equivalent introductory psychology course and PSYC 350 or an equivalent abnormal psychology course or permission of the program director

### **PSYC 415 EVOLUTIONARY PSYCHOLOGY (3)**

Aspects of human psychology are examined from the perspective that current, species-common human thought processes and behaviors may be understood as evolved adaptations to problems faced by our evolutionary ancestors. Topics include environmental preferences and survival responses, male and female mating and parental attitudes and behaviors, and kinship-based and reciprocal altruism. prerequisites: PSYC 200 or permission of instructor

### **PSYC 425 SENSATION & PERCEPTION (3)**

A study of the sensory processes and the methods and techniques for their measurement with emphasis on experimental study of perception. Laboratory fee required. prerequisites: PSYC 100 or an equivalent introductory psychology course and PSYC 309 or permission of the program director

### **PSYC 430 BEHAVIORAL NEUROSCIENCE (3)**

A study of the connection between the brain and behavior. Explores the relationship between brain activity and subjective experience, the principles governing neuronal activity, the role of neurotransmitter systems in memory and motivational processes, and the presumed brain functions that give rise to mental

illnesses like schizophrenia and depression. Laboratory fee required. Prerequisite: PSYC 100 or an equivalent introductory psychology course or permission of the program director.

**PSYC 435 CROSS-CULTURAL PSYCHOLOGY (3)**

Educates, sensitizes and stimulates students' critical thinking about the role of culture relative to both consistencies and differences in human psychological functioning and social behavior. Focus is given to the effects of culture on human perceptions, emotions, expectations and values. Other areas that are explored are individualism vs. collectivism, moral reasoning, gender roles and how culture influences research strategies. prerequisite: PSYC 100 or equivalent [GD]

**PSYC 455 NONVERBAL COMMUNICATION (3)**

Nonverbal communication: A comprehensive introduction to nonverbal communication in interpersonal relationships. This course explores the various channels of nonverbal communication (e.g., voice, touch, personal space) as well as how communicators and their environment influence these nonverbal behaviors in relationships. This course also examines how nonverbal communication plays a key role in topics such as dominance, intimacy, persuasion, and the law. Prerequisite: PSYC 200 or advanced standing.

**PSYC 490 SENIOR PROJECT IN PSYCHOLOGY (3)**

The capstone experience for psychology majors. Students design and conduct original quantitative or qualitative studies of psychological topics of personal interest or complete intensive psychology-focused internships. Students share their own project problems, progress and outcomes in a weekly seminar. Completed projects are reported both in an APA-style paper and a formal oral presentation. Grading: pass/fail. prerequisite: PSYC 200, PSYC 300, PSYC 308, PSYC 309 or equivalents; senior status [CAP]

**PSYC 493 HONORS SEMINAR (3)**

An advanced interdisciplinary seminar that focuses on important books and issues and encourages independent thinking, clear presentation and an understanding of the concerns and methods of various disciplines. The course may be team taught; topic and instructor(s) may change from semester to semester. Course may be repeated for credit when topic changes. prerequisites: 3.5 GPA and permission of the Denit Honors Program director

**PSYC 494 HONORS PROJECT (3 - 6)**

Directed individual instruction in an advanced project of the student's choice; the project must be academically related to this discipline. Each student works closely with a faculty director who guides his/her progress. The project must be of honors quality and must be finally approved by both the faculty director and a second faculty member. Course is eligible for a continuing studies grade. prerequisites: 3.5 GPA and permission of both the Denit Honors Program director and the faculty director

**PSYC 497 TOPICS IN PSYCHOLOGY (3)**

An intensive exploration of topics in psychology of mutual interest to faculty and students. Content varies according to their concurrent interests. The subject studied appears under the Topics heading in the class schedule. Course may be repeated for credit when topic changes. prerequisite: permission of the program director

**PSYC 499 SPECIAL PROJECTS IN PSYCHOLOGY (1 - 3)**

The pursuit of independent work under the supervision of a faculty member. Projects may include research in the laboratory or the library, supervised work in a psychological clinic or laboratory or at a training facility in a class. A student may earn up to 9 hours in this course but cannot take more than 3 hours per semester. Exact course credit for any project is determined by the program director. Course is eligible for a continuing studies grade. prerequisite: permission of the program director

## **PUAD: Public Administration**

### **PUAD 619 PUBLIC MANAGEMENT (3)**

Provides an in-depth study of public organizations and management by integrating organizational theory and public management practice to address problems and issues that managers confront in public organizations. Prerequisites: None

### **PUAD 620 PUBLIC POLICY (3)**

Designed to increase understanding of the public policy process. Policy frameworks and models are used to examine policy interventions in the United States. Examines the stages of policy as well as the methods that public administrators use to assess feasibility and implementation of various policies.

### **PUAD 621 HUMAN RESOURCES MANAGEMENT IN PUBLIC AND NONPROFIT ORGANIZATIONS (3)**

A study in public and nonprofit human resource management policies, practices, laws and regulations. Topics include recruitment and selection, training and development, motivation, compensation, performance appraisal, discipline, and labor relations.

### **PUAD 622 PUBLIC BUDGETING AND FISCAL ADMINISTRATION (3)**

Role, dynamics, politics and processes involved in the budgetary function and associated budget preparation methods, and fiscal interrelationships of federal, state and local levels of government.

### **PUAD 623 FOUNDATIONS: BUREAUCRACY AND THE POLITICAL PROCESS (3)**

Introduces students to the field of public administration theory and practice and examines the intellectual foundations, democratic context, and practical implications of contemporary public administration. Addresses organizational, functional and administrative aspects of the federal bureaucracy, as well as the interrelationships among federal, state and local agencies, and public administration as a part of the political process. Prerequisite: Students will be required to enroll in the course during their first 15 credit hours.

### **PUAD 624 PUBLIC ORGANIZATION THEORY (3)**

Development and evolution of public organizational structures. A study of the postulated models and hypotheses of future needs for government organization.

### **PUAD 625 INNOVATIONS IN PUBLIC MANAGEMENT (3)**

Designed to integrate the perspectives of public administration by focusing on the management problems in public agencies. Includes use of emerging techniques in management to address the problems and issues faced by public managers under the changed environment of the public sector.

### **PUAD 626 INFORMATION RESOURCES MANAGEMENT (3)**

Role of computers in developing and managing information necessary for decision-making in public organizations. Includes consideration of computer applications, including the development and management of databases and the use of software applications for decision-making in both individual and distributed computing contexts. Also considers implications of computer technology, such as privacy, control and security. Working knowledge of spreadsheets and database software is required. prerequisite: computer competency

### **PUAD 627 LEGAL AND ETHICAL ENVIRONMENT OF PUBLIC ADMINISTRATION (3)**

Legal and ethical dimensions of the democratic policy process as it has evolved in the United States. Attention to the manner in which historical as well as contemporary socio-political patterns of governance have shaped the notions of law and ethics that are to provide public administrators with the benchmarks of democratic accountability, responsibility and responsiveness.

### **PUAD 628 STATISTICAL APPLICATIONS IN PUBLIC ADMINISTRATION (3)**

Quantitative analysis for public administrators. Topics include statistical analysis, the computer in processing data and the presentation of findings. Students must complete PUAD 628 within the first 15 credit hours.

**PUAD 629 PUBLIC PROGRAM EVALUATION (3)**

Systematic application of quantitative and qualitative research methods to the assessment of public policy interventions. Covers topics within formative and summative evaluation contexts, including needs assessments, impact evaluation and process evaluation. prerequisite: PUAD 628

**PUAD 630 ANALYTICAL TOOLS IN PUBLIC ADMINISTRATION (3)**

Review of analytical tools conventionally used in the planning, formulation and implementation of public policy. Topics include forecasting techniques, cost-benefit analysis, PERT and other commonly used tools. prerequisite: PUAD 628

**PUAD 700 INTRO TO NONPROFITS (3)**

Nonprofit organizations serve as the foundation for the third sector of the economy. This course explores the history, foundations and types of nonprofit organizations as well as the diverse political, social and economic contexts within which they exist. Prerequisite: None

**PUAD 701 PUBLIC ADMINISTRATION AND PUBLIC FINANCE (3)**

Analysis of revenue forecasting, revenue strategy, impact of inflation, taxation, "back-door" spending, pension funding, user fees and other aspects of governmental finance. Emphasis on the special characteristics of public finance in communities operating with fragmented and multilayered governmental structures.

**PUAD 702 PUBLIC FINANCIAL MANAGEMENT (3)**

Topics include municipal expenditure patterns and revenue sources, taxation at the local level, fiscal and economic aspects of federalism and federal-state-local fiscal coordination, and the role of budget in the determination of policy, in administrative integration and in influencing government operations. Emphasis on the foregoing as they pertain to the Baltimore metropolitan area.

**PUAD 703 URBAN MANAGEMENT (3)**

Topics include municipal, governmental and administrative structures and their inter-relationship in a regional context, the interfacing and management of public services, examination of governmental programs in municipal areas, municipal administrative problems and the attendant role of the public administrator. Emphasis on the foregoing as they pertain to the Baltimore metropolitan area.

**PUAD 704 MANAGING DIVERSITY (3)**

Examines issues of diversity in the workplace, particularly in relation to organizational performance and service delivery among public organizations. Uses historical and legal frameworks to consider the struggles of marginalized groups and employs theoretical and applied perspectives to examine the barriers, challenges and benefits of diversity in the workplace.

**PUAD 705 SPECIAL TOPICS IN PUBLIC ADMINISTRATION (3)**

Coverage of selected topics of current interest to students or of interest to a special segment of students. prerequisite: permission of monitoring faculty member or program director

**PUAD 709 INDIVIDUAL RESEARCH (1 - 3)**

Individual research on an academically sound project of interest to the student in consultation with a monitoring faculty member. Depending on the scope and depth of research, from 1 to 3 credits may be earned for the successful completion of this course. Eligible for continuing studies grade. Prerequisite: approval of M.P.A. program director and monitoring faculty member. Students may only enroll in PUAD 709 once for a total of three credits.

**PUAD 720 URBAN POLITICS AND POLICY PLANNING (3)**

Study of political institutions in urban areas and the policy responses, processes and problems with reference to such issues as land use, community growth and development, environment, local and state services and regional and national urban policies, with particular focus on the Baltimore Standard Metropolitan Statistical Area.

**PUAD 725 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE AND SYSTEMS (3)**

Provides students with foundational knowledge in both geographic information science and Systems that will allow them to better understand and think critically about the role of "place and space" and to engage

in the routine use of basic GIS technology in their studies and workplace. Students will learn to use ESRI's ArcGIS to create maps and analyze geo-data and relationships, and to present their results to others. prerequisites: none

**PUAD 730 STATE & LOCAL PERSONNEL MANAGEMENT (3)**

Development and application of personnel systems and procedures in state and local jurisdictions, and how state and local politics and federal laws and regulations impact them.

**PUAD 731 PUBLIC EMPLOYEE UNION LABOR RELATIONS & COLLECTIVE BARGAINING (3)**

Study of the background, extent and nature of the unionization of government employees. Coverage of current regulations involving collective bargaining, adjudication of labor grievances and bargaining tactics.

**PUAD 732 LEADERSHIP AND ORGANIZATIONAL CHANGE (3)**

Nature of technological and environmental change as it affects the management decisions of the agency. Techniques for organizational change, including diversified but integrative decision-making structures and techniques, implementation techniques, enforcement techniques and evaluation tools. The impact of a changing environment on the leadership skills needed in a modern environment.

**PUAD 733 MANAGING PUBLIC SECTOR PROJECTS (3)**

Introduction to the theories and techniques of project management. Covers some standard project analytic techniques (e.g., PERT charts and project management software) but emphasizes recognition of barriers to effective project team functioning and project completion. Students understand and design plans for effective project management and identify and respond to problems in team dynamics and to external problems requiring adaptation.

**PUAD 734 STRATEGIC PLANNING (3)**

Covers the steps involved in developing a strategic plan for public and nonprofit organizations. Students learn how to perform a stakeholder analysis, conduct a situation analysis, develop appropriate mission statements, design effective performance measures and implement a strategic plan.

**PUAD 740 ADMINISTRATIVE LAW AND REGULATION (3)**

Role of administrative law and regulation in the governmental process. An examination of the function of the public administrator in implementing legislation through the formulation of administrative law and regulation, and the rules, procedures and techniques for their formulation.

**PUAD 750 HEALTH CARE SYSTEMS, ORGANIZATION AND MANAGEMENT (3)**

Analysis of the structure of the present American health-care system and of the costs, benefits and political realities of possible reforms. The current and future role of public administration, planning and evaluation in American health care.

**PUAD 751 POLICY ISSUES IN HEALTH CARE (3)**

Study of a few current policy issues in the American health-care system. Particular attention to the roles and powers of nonmedical participants, including consumers, planners, administrators and policymakers.

**PUAD 755 HEALTH ADMINISTRATION (3)**

Problems and issues with performing such basic managerial functions as direction, control and staffing in health-care institutions. Emphasis on analyzing tools and techniques that are important in fulfilling these managerial functions.

**PUAD 756 MANAGED CARE ADMINISTRATION (3)**

Basic theoretical concepts concerning managed care, practical management issues and areas of controversy as they pertain to managed care. Topics include benefit design in managed care, structure and management of managed-care delivery systems, financing of managed care and future trends in managed care.

**PUAD 757 STRATEGIC MANAGEMENT FOR HEALTH CARE (3)**

Examination of strategic management in health-care organizations. Included are discussions of the nature of strategic management, the environment of health organizations and methods of environmental analysis, and methods of formulating, implementing and controlling the strategic management of health-

care delivery. prerequisites: HSMG 632, HSMG 650 and either PUAD 750 or PUAD 751, or permission of M.S. in Health Systems Management program director

### **PUAD 760 REGULATORY POLICY AND ADMINISTRATION (3)**

Political, legal and economic dimensions of regulation. Includes a delineation of the conceptual framework for government intervention into the marketplace and a determination of the effects of this intervention. Topics include the rise of government regulations, structure and procedures of regulatory agencies, the politics of regulation and the future of regulation.

### **PUAD 761 ENVIRONMENTAL POLICY AND ADMINISTRATION (3)**

Overview of environmental law, institutions and regulation and the factors that have shaped environmental policy at the federal, state and local levels. Assesses the impact of environmental policy at these levels and the impact of environmental legislation on the behavior of administrators responsible for its implementation and administration. Examines the major policy processes in controlling pollution standard-setting and compliance.

### **PUAD 763 PUBLIC POLICYMAKING (3)**

Overview of the process of public policymaking, including the formulation of public issues, the consideration of issues and the adaptation of solutions to public problems. Emphasis on actors in the policy process and the environment within which they function.

### **PUAD 764 PUBLIC POLICY IMPLEMENTATION (3)**

Review of the diverse conceptualization frameworks of analyzing the implementation of public programs. Emphasis is on the analysis and integration of the subsequent political, economic, social, cultural and managerial factors that impact the implementation of public policies.

### **PUAD 770 COMMUNITY DEVELOPMENT (3)**

Introduce community development concepts and theories. Understand context in which community development work operates, highlighting the urban setting, neighborhood change and government and business cooperation in community development. Work to develop practical knowledge and skills needed to operate effectively in the broad field of community development. Students write and present analytical research papers on pertinent topics.

### **PUAD 775 INTERGOVERNMENTAL ADMINISTRATION (3)**

Evaluation, growth, present status and characteristics of the U.S. federal system of government. Topics include federal-state relations, state-local relations, regionalism, councils of government, interstate cooperation, grants-in-aid and revenue sharing.

### **PUAD 776 LEGAL ASPECTS OF NONPROFIT ADMINISTRATION (3)**

Surveys the legal structure that defines and regulates the nonprofit sector and examines the fundamental governance issues in nonprofit corporations. Emphasizes the board of directors (trustees) and the executive director, and their collective fiduciary responsibilities established both by law and by the moral imperative derived from acting in the public interest. Prerequisites: none

### **PUAD 777 POLITICAL ECONOMY OF NONPROFIT ORGANIZATIONS (3)**

Study of the role of nonprofit activity in the development and administration of public policy. Topics include the political economy of nonprofit organizations and the nonprofit sector. Nonprofit management and the relationships among government, business and nonprofit activity are examined within the current context of issues and future trends.

### **PUAD 781 INFORMATION TECHNOLOGY: PUBLIC SECTOR APPLICATIONS (3)**

Design and implementation of public-sector IS and IT projects, including current developments and issues in the application of available technology to public-sector management. The role of technology in enhancing intergovernmental coordination, improving service, increasing efficiency and reducing government spending. Technologies examined include distributed transaction-oriented databases; data warehousing, management information systems and executive- and group-decision support systems; geographic information systems; office automation, voice response systems and document imaging; electronic data interchange and kiosks; and electronic commerce over public networks.



**PUAD 785 PUBLIC SECTOR PERFORMANCE MEASUREMENT (3)**

Structuring data collection and analysis techniques to determine precisely what an agency is attempting to do and what it accomplishes through its outputs. Emphasis is on shaping the outputs to have a measurable positive impact on customers and other stakeholders.

**PUAD 786 GOVERNANCE, NONPROFIT BOARDS, AND EXECUTIVE LEADERSHIP (3)**

This course explores the responsibilities of a nonprofit board of directors as framed by and responsive to public policy and law. The course examines the leadership role in nonprofits and interplay between board members and the executive director. The examination includes a comparative analysis of different governing models, exploration of fundamental questions of board composition, achieving effective board meetings, board liability, using committees, and the board's role in fundraising, among other special subject matter.

**PUAD 787 NONPROFIT FINANCIAL MANAGEMENT (3)**

Nonprofit financial management for the "non-accountant." This course focuses on the knowledge and management skill areas necessary for allocating and for understanding and protecting the fiscal health of a nonprofit organization. Topics include key accounting principles, understanding and using nonprofit financial statements, the budget development process, cash flow analysis, banking relationships, using the audit report, maximizing investment policy and strategy, and understanding the boundaries of tax exception.

**PUAD 790 INTERNSHIP (3)**

Designed to broaden the educational experience of students through work assignments with appropriate governmental agencies. Eligible for continuing studies grade. Required of all pre-service students. prerequisite: approval of program director and monitoring faculty member

**PUAD 797 NONPROFIT MANAGEMENT: APPLIED SKILLS SEMINAR (3)**

Exploration of topics in nonprofit management of mutual interest to faculty and students, such as program evaluation, risk management, communications and board management. Content varies according to demand. Specific topic is listed in the schedule of classes. May be repeated for credit as topics change.

**PUAD 798 PROBLEM SOLVING SEMINAR IN PUBLIC ADMINISTRATION (3)**

Capstone course requires students to integrate and apply analytical skills, knowledge bases, managerial principles and normative frameworks learned in M.P.A. core courses to concrete management situations. Student must earn a B grade or better to graduate. prerequisites: completion of PUAD 621, PUAD 622, PUAD 623, PUAD 624, PUAD 625, PUAD 627, PUAD 628, PUAD 629 and PUAD 630 with grades of B- or better prior to enrolling in course (students may be concurrently enrolled in PUAD 626) or permission of Master of Public Administration program director

**PUAD 805 D.P.A. SPECIAL TOPICS (3)**

Coverage of selected topics of current interest to D.P.A. students or to a special segment of D.P.A. students. Registration is by permission of instructor only.

**PUAD 809 D.P.A: INDIVIDUAL RESEARCH (1 - 3)**

Individual research on an academically sound project of interest to the D.P.A. student in consultation with a monitoring faculty member. Depending on the scope and depth of research, 1 to 3 credits may be earned for the successful completion of this course. prerequisite: approval of D.P.A. director and monitoring faculty member

**PUAD 810 FOUNDATIONS OF PUBLIC ADMINISTRATION (3)**

Major questions, answers and concerns that have framed the development of a self-aware study of public administration. The political, social and cultural contexts in which administrative solutions have been sought. The role of preceding theories, or sometimes the rejection of them, in helping to shape modern answers to administrative questions. Prerequisite: DPAD majors only.

**PUAD 811 STRATEGIC MANAGEMENT IN THE PUBLIC SECTOR (3)**

Covers the rise of a customer-based, results-oriented approach to solving public-sector problems. The historical foundations of such an approach and the public-sector initiatives by which it has been

introduced. Modern techniques and tools for using strategic management to handle current governmental issues.

**PUAD 812 ADVANCED INFORMATION RESOURCE MANAGEMENT (3)**

Prepares public- and third-sector managers to deal effectively with issues related to the design and implementation of information systems in their agencies. Examines tools and techniques for identifying and structuring information requirements and needs (e.g., process mapping) and for managing IT implementation projects, including both in-house development and external procurements. Also explores the planning and implementation problems related to the redesign of public organizations and the way they provide services in the information age. prerequisite: PUAD 626 or permission of instructor

**PUAD 813 SEMINAR IN DOCTORAL RESEARCH (3)**

Overview of both quantitative and qualitative research methods that are applicable to the field of public administration. Emphasis on development of research questions, measurement and sampling, data collection and analysis techniques in both paradigms.

**PUAD 814 SEMINAR IN POLICY MAKING AND IMPLEMENTATION (3)**

Study of the theory and design of public policies and their implementation. Topics include the stages of the policy process, public policy paradigms, and the formulation and implementation of public programs.

**PUAD 815 PUBLIC SECTOR FINANCIAL ANALYSIS (3)**

Introduces advanced techniques employed by financial analysts in the public sector. Topics include forecasting techniques, performance measurement construction, Activity-Based Costing and expenditure analysis techniques.

**PUAD 816 ADVANCED PUBLIC SECTOR MANAGEMENT AND DECISION TECHNIQUES. (3)**

Familiarizes students with various analytical tools to aid in the executive decision-making and management of public-agency operations, including staffing, facility location, future planning and the wise allocation of scarce resources. Although such techniques are commonly used in the private sector, they are less common in the public sector, largely because public-sector objective functions are more difficult to quantify. Thus, an important component of the course is the application of such techniques to public-sector problems and the construction of objective functions that capture the trade-offs among quantitative and qualitative (subjective) "public goods."

**PUAD 817 SEMINAR IN PROGRAM AND POLICY EVALUATION (3)**

Provides doctoral students with an introduction to program and policy evaluation in the public and nonprofit sectors. Students understand and are able to design the major components of evaluation: needs assessment, implementation evaluation, impact evaluation (formative and summative), and assessment of merit and worth. Students design evaluations that are sensitive to the requirements and constraints of particular evaluation settings.

**PUAD 824 DOCTORAL SEMINAR IN ORGANIZATIONAL THEORY (3)**

Deals with public-sector organization systems as they relate to democratic forms of governance.

**PUAD 830 SURVEY RESEARCH (3)**

In-depth exposure to survey sampling, questionnaire construction, different means of collecting survey data (mail, phone, Web) and analysis of data developed from surveys. Students develop survey instruments and perform extensive analysis of data from surveys. Prerequisite: PUAD 813.

**PUAD 831 CASE STUDY AND QUALITATIVE METHODS (3)**

In-depth exposure to different types of case studies (single case and multiple cases), sampling for cases, data collection methods frequently used for case studies and methods of analysis for qualitative data. prerequisite: PUAD 813

**PUAD 832 QUANTITATIVE METHODS (3)**

In-depth exposure to issues in using administrative data and research data sets collected by other entities. Also use of advanced statistical analyses including an in-depth exposure to multiple regression and its assumptions, logistic regression, factor analysis, discriminant function analysis and time series

analysis. prerequisite: PUAD 813; statistical understanding as demonstrated by a passing grade in PUAD 628 (or equivalent graduate statistics course) or permission of program director.

**PUAD 834 ADVANCED SEMINAR IN EVALUATION: THEORIES AND TECHNIQUES (3)**

Helps doctoral students in public administration wishing to specialize in program and policy evaluation to achieve mastery of the basic concepts and theories of evaluation and also the recent literature of the field. Prepares students to contribute as professionals to the field of evaluation. prerequisite: PUAD 817

**PUAD 835 PRACTICUM IN PROGRAM EVALUATION (3)**

Provides doctoral students in public administration with the opportunity to be team members conducting an actual program or policy evaluation. Working with the evaluation sponsors and other stakeholders while also reading and discussing practical books and articles on evaluation methods, students develop their own integrations of evaluation theory and practice that provide guiding frameworks for practicing evaluators. prerequisite: PUAD 817

**PUAD 875 DOCTORAL SEMINAR IN FEDERALISM AND INTERGOVERNMENTAL RELATIONS (3)**

Examines the ways in which various aspects of intergovernmental relations and federalism affect the adoption and implementation of public policy.

**PUAD 890 THEORY AND PRACTICE OF PUBLIC SCHOLARSHIP (3)**

This course provides students with a comprehensive understanding of the principles, theories, and practical skills necessary for effective public scholarship. In this course, students will explore the foundations of public scholarship and engage with various strategies and considerations associated with communicating their research, knowledge, and expertise to broader, non-academic audiences. By delving into the theoretical underpinnings and hands-on practice, this course equips students to become adept public scholars who can contribute meaningfully to the public discourse.

**PUAD 895 APPLIED PUBLIC SCHOLARSHIP (3)**

This course equips students with the tools and strategies necessary to effectively engage in public scholarship. This course will explore a diverse range of methods for communicating research and expertise to wider audiences, bridging the gap between academia and the broader public. Students will be introduced to a variety of methods and platforms for engaging with public audiences, including but not limited to writing for the general public, social media, podcasts, video, public events, and community outreach.

**PUAD 898 CONTINUOUS ENROLLMENT (1)**

Provides continuing faculty direction, academic support services and enrollment services for students who have completed all course requirements for the degree but have not completed a thesis or final project. Students continue the independent work leading to finishing the thesis or final project that is significantly under way. Course may be repeated for credit as needed. Eligible for continuing studies (CS) grade; otherwise grading is pass/fail. prerequisite: completion of all course requirements for degree program

**PUAD 898X CONTINUOUS ENROLLMENT (1 - 5)**

Provides continuing faculty direction, academic support services and enrollment services for students who have completed all course requirements for the degree but have not completed a thesis or final project. Students continue the independent work leading to finishing the thesis or final project that is significantly under way. Course may be repeated for credit as needed. Eligible for continuing studies (CS) grade; otherwise grading is pass/fail. prerequisite: completion of all course requirements for degree program

**PUAD 899 DISSERTATION RESEARCH (3 - 12)**

A written descriptive and prescriptive evaluation of the management practices of an existing agency to determine the efficacy of its structure and/or procedures. The project is directed by a faculty adviser and results in a written product for which there is an oral defense before a committee of three faculty members. Eligible for continuing studies (CS) grade; otherwise grading is pass/fail.

## **REED: Real Estate and Economic Development**

### **REED 312 REAL ESTATE PRINCIPLES AND TRANSACTION (3)**

Identifies the framework in which the acquisition and development of real estate are arranged. Particular attention is paid to financing techniques and the underlying financial structures involved in real estate investment choices. Emphasis is placed on development issues including site acquisition and evaluation, environmental regulation, market analysis and interaction with constituent groups.

### **REED 315 REAL PROPERTY LAW (3)**

Focuses on how law impacts real estate, its ownership, conveyance and development. Emphasis is on real property ownership interests, restrictions on such interests, methods of transferring such interests, private and public land use controls, and legal transactions involving real estate, such as gifts, sales and leases. prerequisite: BULA 151 or equivalent

### **REED 475 REAL ESTATE MARKET ANALYSIS (3)**

Emphasizes real estate markets with specific attention given to understanding the market forces affecting real estate at the urban and regional levels. The main focus is on providing insight into the operation of urban land and nonresidential markets and the process of urban growth and regional development. Prerequisites: REED 312 / Merrick School of Business student or by permission of the instructor.

### **REED 480 PROPERTY MANAGEMENT (3)**

This course addresses the issues involved with managing commercial property including residential, office, retail and industrial. Topics include tenant relations and retention, insurance and risk management, leasing, environmental issues, and maintenance. Prerequisite: REED 312

### **REED 495 INTERNSHIP IN REAL ESTATE AND ECONOMIC DEVELOPMENT (3)**

Provides students with practical real world experience in an organization. The course requires a minimum of 120 hours of practical work with a qualified firm based on explicit statements of student responsibilities and faculty/firm monitoring mechanism. Students will work closely with both the firm and a faculty member. Prerequisite: completion of 9 hours of real estate courses, with a minimum GPA of 3.0. Completion of MGMT 330 is recommended. Permission of the department chair is required..

### **REED 497 SPECIAL TOPICS IN REAL ESTATE (3)**

The real estate faculty, from time to time, offer an opportunity to integrate new material into the undergraduate program reflecting changes in the field and in the educational needs of students. Prerequisite ECON 312

## **RMGT: Risk Management**

### **RMGT 301 MANAGING PROPERTY AND CASUALTY RISK (3)**

This course examines the basic operational functions of a property-liability insurer and how the market and regulatory environments affect insurer operations. Key topics addressed in the course include industry structure, regulation, distribution systems, underwriting, ratemaking and insurance pricing, reinsurance, loss control and solvency. Throughout the course current issues affecting insurer operations are examined. This course evaluates property, net income, cyber, environmental, and liability loss exposures, analysis of insurance contracts, specific insurance coverages designed to handle the above exposures and other industry related topics.

### **RMGT 475 MANAGING RISK ACROSS THE ENTERPRISE (3)**

This course provides the student with a context for applying the risk management process in a business setting. Prerequisites: RMGT 301, FIN 420, OPRE 315

### **RMGT 495 INTERNSHIP IN RISK MANAGEMENT AND INSURANCE (3)**

Provides students with practical real world experience in an organization. The course requires a minimum of 120 hours of practical work with a qualified firm based on explicit statements of students

responsibilities and faculty/firm monitoring mechanism. Students will work closely with both the firm and a faculty member. Prerequisites: Completion of minimum of 9 credits of business core with a cumulative GPA of 3.0. Completion of FIN 420. Completion of MGMT 330 is recommended. Permission of the instructor is required.

### **RMGT 497 SPECIAL TOPICS: RISK MANAGEMENT AND INSURANCE (3)**

An exploration of emerging risks in the workplace that students may face when they enter the workforce. Students will learn how to research emerging risk and how to apply the research to create real-world solutions to risks as they emerge. Refer to the current Class Schedule for topic offered. Prerequisites: As specified in the class schedule.

## **SOCI: Sociology**

### **SOCI 100 INTRODUCTION TO SOCIOLOGY (3)**

Provides an introduction to basic concepts, theoretical principles and research methods of sociology and applies these tools to the analysis of human societies, including the study of social structures and institutions such as the family and religion, culture, social interaction, groups, social inequality, deviance and social change. [GIK] [QQT] [SBS]

### **SOCI 303 URBAN SOCIOLOGY (3)**

An ecological approach to urban society emphasizing the dynamics of urban regions as demonstrated in their growth and structure. The values and methods people have employed to achieve desired ends are examined in the light of modern industrialization and communication. Special emphasis is given to factors of race, housing, planning and organization.

### **SOCI 308 INTRODUCTION TO HUMAN SERVICES (3)**

The social basis for human service needs is examined with special consideration given to how societies respond to these needs through the formation of service delivery systems. Case studies of contemporary human service delivery systems are emphasized.

### **SOCI 403 SOCIAL RESEARCH METHODS (3)**

An analysis of principal research methods employed in the applied social sciences with particular emphasis on applications for human services. Topics include research design, data collection and data analysis. Practical applications are required through student projects.

### **SOCI 412 INTERNSHIP (3)**

A practical opportunity to gain experience in public or volunteer social agencies. The student's participation is supervised by the course instructor as well as by agency staff members. Observation of social factors at work, reports, analysis and various presentations to the class constitute the academic requirements. Course is eligible for a continuing studies grade. prerequisites: all required sociology core and specialty courses

### **SOCI 492 SENIOR SEMINAR IN HUMAN SERVICES (3)**

A senior-level seminar consisting of an extensive exploration of current topics in human services of mutual interest to faculty and students. Examples of the content may include welfare reform, political and social legislation as well as policy and program issues. prerequisite: senior-level standing

## **TAXA: Taxation**

### **TAXA 650 TAX RESEARCH AND WRITING (3)**

Covers research and writing projects on federal tax subjects with analysis and instruction in tax research techniques, materials and methodology. Students are required to prepare legal memoranda.

### **TAXA 651 FUNDAMENTALS OF FEDERAL INCOME TAX I (3)**

Covers basic concepts in federal income taxation, including gross income, exclusions, adjusted gross income, deductions, exemptions, credits, assignment of income, identification of the taxpayer, tax rates, depreciation and the alternative minimum tax.

**TAXA 652 CORPORATE TAXATION (3)**

Covers federal income taxation of corporations and their shareholders with emphasis on the formation of the corporation, capital structure, operational alternatives, distributions, partial and complete liquidations, personal holding companies and the accumulated earnings tax. Formation, operation and liquidation of S corporations discussed briefly. Prerequisite: TAXA 651

**TAXA 653 PARTNERSHIP TAXATION (3)**

Explores problems encountered in the formation, operation and liquidation of a partnership, including the acquisition of partnership interests, compensation of the service partner, the treatment of partnership distributions and problems associated with the disposition of partnership interests or property by sale.

Prerequisite: TAXA 651

**TAXA 654 TAX PRACTICE & PROCEDURE (3)**

Covers aspects of practice before the Internal Revenue Service, including ruling requests, handling of audits, assessment of deficiencies and penalties, closing agreements, tax liens, statutes of limitations, claims for refunds, appeals conferences and practice before the U.S. Tax Court, U.S. District Courts, Claims Court and appellate courts. Also includes analysis of the problems encountered in parallel civil and criminal proceedings, problems involving government investigatory powers and taxpayer rights and privileges. Prerequisite: TAXA 651

**TAXA 655 TAX POLICY (3)**

A study of the evolution and structure of the federal income tax system from a public-policy perspective with a focus on legal, economic, social and practical considerations. Alternatives, including current legislative proposals, are considered. Students prepare a paper on a tax policy issue approved by the professor. Prerequisite: TAXA 651

**TAXA 656 MARYLAND TAXES (3)**

This course will explore the substantive law and procedure of the Maryland taxes administered by the Maryland Comptroller, with a particular focus on Maryland income tax, corporate tax and sales and use tax. Other Maryland taxes administered by the Maryland Comptroller will be discussed briefly. In addition, this course will cover Maryland tax procedure, including how liabilities are calculated, types and methods of assessment, the dispute process, the state's authority to collect and collection alternatives available.

Prerequisite: Fundamentals of Federal Income Tax I.

**TAXA 658 INVESTIGATION, PROSECUTION, AND DEFENSE OF TAX CRIMES (3)**

This course examines the lifecycle of a criminal tax case, including the warning signs that a civil tax case may be referred for criminal investigation, applicable privileges, potential defenses, the opening of an administrative investigation, sources of information, authorization of a grand jury investigation and prosecution, best practices in plea negotiations, trial strategies, sentencing, and collateral and civil tax consequences. The course will also address current priorities of IRS Criminal Investigation and the Department of Justice, and cases pulled from the headlines. Prerequisite: Fundamental of Federal Income Tax I. Recommended: Tax Practice and Procedure

**TAXA 660 ESTATE AND GIFT TAXATION (3)**

Covers the basic principles of federal estate and gift taxation, including computation of the taxable estate, inter vivos transfers, transfers in contemplation of death, transfers with retained interests or powers, joint interests, life insurance proceeds, property subject to powers of appointment, the marital deduction and the unified credit. Prerequisite: TAXA 651

**TAXA 662 FOREIGN TAXATION (3)**

Analysis of the federal income tax provisions applying to U.S. inbound and outbound transactions and investments. Course covers U.S. resident status, source-of-income rules, graduated tax on effectively

connected income, withholding tax on FDAP income, branch profits tax, FIRPTA, tax treaties, foreign tax credit, foreign earned income exclusion, Subpart F and transfer pricing. Prerequisite: TAXA 651

**TAXA 663 QUALIFIED PENSION AND PROFIT-SHARING PLANS (3)**

An introduction to pension and profit-sharing law with particular emphasis on Title 2 (IRS) of ERISA. Geared toward understanding all of the pension and profit-sharing rules that must be met for plan qualification, with emphasis on qualified plan planning for both incorporated and unincorporated forms of business. Prerequisite: TAXA 651

**TAXA 664 EXECUTIVE COMPENSATION (2)**

Covers methods of providing tax-free and tax-deferred compensation to employees, including section 83 tax planning, stock option tax planning, incentive compensation arrangements and methods of funding nonqualified plans. Prerequisite: TAXA 651

**TAXA 665 TAX EXEMPT ORGANIZATIONS (2)**

An analysis of provisions relating to the qualification for exemption from federal income tax, with emphasis on section 501(c)(3) organizations, private foundations and the treatment of unrelated business income. Prerequisite: TAXA 651

**TAXA 667 ESTATE PLANNING (972) (3)**

Examines methods of disposing of estates by will, life insurance, inter vivos arrangements and the consideration of resulting tax and administrative problems. Also focuses on gathering and analyzing facts in the planning and drafting of trusts, wills and related documents. additional prerequisite: TAXA 660

**TAXA 668 BUSINESS PLANNING WORKSHOP (3)**

**An integrated study of the impact of tax, securities, corporate law and partnership law on business transactions.** Topics include selection of the form of business enterprise, acquisitions and dispositions of business interests, and professional responsibility issues. Students prepare writing projects relating to the course material. additional prerequisites: TAXA 652 and TAXA 653

**TAXA 670 INCOME TAXATION OF ESTATES AND TRUSTS (3)**

Covers federal income taxation of decedents' estates, simple and complex trusts, charitable trusts and grantor trusts. Also covers the preparation of fiduciary income tax returns with emphasis on unique tax issues such as income in respect of a decedent, distributable net income and fiduciary accounting. Prerequisite: TAXA 651

**TAXA 671 CORPORATE REORGANIZATIONS (3)**

Analysis of the tax treatment of corporations and shareholders in corporate acquisitions, divisions, reincorporation's, and recapitalizations, including a discussion of section 338 and the net operating loss carryover rules. Prerequisites: Federal Income Tax and Corporate Taxation. This course is a combined J.D. and Graduate Tax Program offering. [Open Enrollment]

**TAXA 672 STATE AND LOCAL TAXATION (3)**

This course will explore federal and state constitutional and statutory limitations on state authority to tax individuals and business entities, including those that conduct multistate and multinational business. Featured topics will include the Due Process Clause and the Commerce Clause of the U.S. Constitution, taxation of individuals and business entities, sales and use tax nexus, and PL 86-272 limitations on state income taxation. In addition, the course will cover general sales and use tax (SUT) principles, apportionment of income derived from a multistate business, combined versus separate entity reporting, and state property taxes. Maryland's broad array of state and local taxes also will be examined briefly. Prerequisite: TAXA 651

**TAXA 674 CONSOLIDATED CORPORATIONS (2)**

An analysis of the techniques used by multiple, related corporations to report income and losses. Detailed examination of the consolidated income tax regulations and consideration of other problems encountered by affiliated groups of corporations. additional prerequisite: TAXA 652

**TAXA 675 ADVANCED REAL ESTATE TAXATION (2)**

An analysis of the effect of income taxes on real estate transactions; a comparison of the various entities used for the ownership and development of real estate; real estate syndications, basis and basis adjustments; alternative financing techniques such as the sale-leaseback; depreciation, amortization and obsolescence; passive activity and at-risk rules; and REITS. additional prerequisite: TAXA 678

**TAXA 676 FEDERAL TAX LEGISLATION WORKSHOP (3)**

A workshop course that examines the process of formulating and enacting federal tax legislation, as well as areas ripe for current federal tax legislative proposals; these areas may include income tax rates, capital gains taxation, tax expenditures, and the federal estate tax. Students will engage in drafting and other exercises that simulate the process of creating such legislation from the standpoint of staffers on Congressional committees. Prerequisite: TAXA 651 (Fundamental Federal Income Tax I)

**TAXA 678 FUNDAMENTALS OF FEDERAL INCOME TAX II (3)**

A continuation of basic tax concepts, including cash and accrual methods, capital gains and losses, 1231 transactions, recapture, original issue discount and imputed interest, below-market loans, installment sales, like-kind exchanges, involuntary conversions, at-risk rules and passive loss rules. Prerequisite: TAXA 651

**TAXA 679 WELFARE BENEFIT PLANS (2)**

Welfare benefit plans are employee-sponsored plans that provide employees with benefits other than pension and retirement plans and deferred compensation. Welfare benefit plans include life insurance, health insurance, disability insurance, vacation pay, severance pay, educational reimbursement, group legal services and dependent assistance care plans. This course focuses on federal income tax requirements for various welfare benefit plans, including fringe benefits and health-care continuation coverage under COBRA. Examines the income tax consequences to employers who sponsor, and employees who participate in, welfare plan benefits. Discusses the various mechanisms for offering welfare benefit plans, such as cafeteria plans under section 125 and VEBA's under section 501(c)(9). Prerequisite: TAXA 651

**TAXA 680 ADVANCED QUALIFIED PENSION AND PROFIT-SHARING PLANS (3)**

Building on the foundation provided by Qualified Pension and Profit-Sharing Plans, this in-depth examination of defined contribution and defined benefit plans includes current IRS positions; final, proposed and temporary regulations; and developing case law. Tax sheltered annuities are considered. additional prerequisite: TAXA 663

**TAXA 682 BANKRUPTCY TAXATION (2)**

An introduction to the basics of bankruptcy law and creditors' rights and an analysis of tax issues that arise. Prerequisite: TAXA 651

**TAXA 684 S-CORPORATIONS (1)**

Covers federal income taxation of S corporations and their shareholders with emphasis on the creation of the S corporation, capital structure, operational alternatives, distributions and liquidations. Prerequisite: TAXA 651

**TAXA 685 ACCOUNTING FOR INCOME TAXES (2)**

An analysis of FASB ASC 740 Income Taxes. Such analysis will include the standards of financial accounting and reporting for income taxes that result from a company's activities during the current and preceding year. The course will analyze income taxes that are currently payable under the respective income tax statutes as well as the tax consequences of those items that are deferred for federal income tax purposes but included for financial reporting purposes. Prerequisites: Fundamentals of Federal Income Tax I or Federal Income Taxation; Fundamentals of Federal Income Tax II

**TAXA 689 ADVANCED PARTNERSHIP TAXATION (3)**

This course builds upon the ideas presented in Partnership Taxation and provides students with additional skills that are valuable when practicing in the area of partnership taxation. Requires an ability and willingness to engage in critical thinking and problem-solving. Topics covered include the issues surrounding family limited partnerships; transferring property into and out of a partnership on a tax-



deferred basis; recognizing transactions considered tax shelters or “abuses of subchapter K” under the current climate; and the international tax concepts. additional prerequisite: TAXA 653

### **TAXA 690 STATE TAX POLICY ISSUES SEMINAR (2)**

This advanced state and local tax seminar consists of discussions of articles written by leading state tax theoreticians and practitioners regarding the present condition and likely future of state taxation in the 21st century. Each student will be expected to moderate at least one group discussion during the semester. The grade will be based on class participation and the completion of one publishable paper on a state tax policy topic of the student's choice, subject to the instructor's approval.

### **TAXA 692 INTRODUCTION TO THE TAXATION OF FINANCIAL PRODUCTS (2)**

Study of the taxation of basic financial building blocks (equity, debt, options, notional principal contracts and forward contracts) and their various combinations. Financial equivalencies among traditional and derivative instruments that are taxed under widely varying tax regimes. Use of financial instruments to change the timing, character and source of income. Gaps in existing law, possible future tax regimes and emerging financial products.

### **TAXA 780 BUSINESS VALUATION (3)**

Business valuation arises in mergers, acquisitions, divestitures, estate taxation, lost profits litigation, buy-out agreements, commercial lending, venture capital, IPOs, and other exit strategies. This course addresses valuation modeling, using asset pricing theory and practice and employing advanced applications such as data analytics applications and tools, and corporate databases. The course material is of interest to students who envision careers as CPAs, business valuation experts, corporate finance analysts and investment bankers. Prerequisite: FIN 605.

### **TAXA 799 INDEPENDENT STUDY (1 - 2)**

Students may study an area of particular interest to them, not covered in a significant way elsewhere in the program, via an independent study. To qualify, students must submit a written proposal and obtain the consent of a faculty member who supervises the project. The proposal must be approved by both the supervising faculty member and the program director. Prerequisite: TAXA 651

## **UNIV: University**

### **UNIV 201 SOPHOMORE SEMINAR: INTELLECTUAL TRANSITIONS (3)**

(Reserved for CAS students ) Serves as a bridge from the first year to a student's major area of study, building on skills gained in First-Year Seminar: Introduction to University Learning, learning communities and other general education courses. All sophomores participate in a common academic experience designed to enhance their critical thinking and to enable them to make connections among their academic work, personal aspirations and professional goals. Student engage a common reading across seminar sections, exploring academic discourse in broad areas, and apply core skills in communication, research, information literacy and team building to real-world issues. prerequisite: WRIT 101; prerequisite or corequisite: INFO 110 (may be waived for students who enroll with 45 credits or more) [CTE]

### **UNIV 202 SOPHOMORE SEMINAR: INTELLECTUAL TRANSITIONS (3)**

(Reserved for CPA students) Serves as a bridge from the first year to a student's major area of study, building on skills gained in First-Year Seminar: Introduction to University learning, learning communities and other general-education courses. All sophomores participate in a common academic experience designed to enhance their critical-thinking and to enable them to make connections among their academic work, personal aspirations and professional goals. Students engage a common reading across seminar sections, exploring academic discourse in broad areas, and apply core skills in communication, research, information literacy and team building to real-world issues. Prerequisite: WRIT 101; prerequisite or corequisite INFO 110 (may be waived for students who enroll with 45 credits or more). ) [CTE]

### **UNIV 203 SOPHOMORE SEMINAR: INTELLECTUAL TRANSITIONS (3)**

(Reserved for MSB students ) Serves as a bridge from the first year to a student's major area of study, building on skills gained in First-Year Seminar: Introduction to University Learning, learning communities and other general-education courses. All sophomores participate in a common academic experience designed to enhance their critical-thinking and to enable them to make connections among their academic work, personal aspirations and professional goals. Students engage a common reading across seminar sections, exploring academic discourse in broad areas, and apply core skills in communication, research, information literacy and team building to real-world issues. prerequisite: WRIT 101; prerequisite or corequisite: INFO 110 (may be waived for students who enroll with 45 credits or more). [CTE]

### **UNIV 300 CONSTRUCTING A PORTFOLIO OF PRIOR LEARNING (1)**

Students may earn credit for prior learning acquired outside a typical academic setting by submitting a portfolio that demonstrates the learning associated with a particular course. This portfolio course provides students with an understanding of the methodology of portfolio design and prepares them to create a portfolio to be submitted for evaluation by a faculty member with appropriate expertise. Portfolio preparation demands good writing skills, critical thinking, and organization. The course guides students through a structured portfolio development process and provides directions in organizing the required documentation for prior achievements. The course instructor will work with the program offering the course the student wants credit for to determine who the faculty evaluator will be. At the end of the course, students are expected to complete a portfolio and submit it within a month to the faculty member designated to review the portfolio for a particular course. There is no course fee, but students must pay a [est \$350] fee for each course portfolio evaluated; students do not pay tuition for the credits earned via portfolio. Successful completion of this course is a prerequisite for submitting one or more portfolios for course credit.

### **UNIV 301 CONSTRUCTING A PORTFOLIO OF PRIOR LEARNING (1)**

Students may earn credit for prior learning acquired outside a typical academic setting by submitting a portfolio that demonstrates the learning associated with a particular course. This portfolio course provides students with an understanding of the methodology of portfolio design and prepares them to create a portfolio to be submitted for evaluation by a faculty member with appropriate expertise. Portfolio preparation demands good writing skills, critical thinking, and organization. The course guides students through a structured portfolio development process and provides directions in organizing the required documentation for prior achievements. The course instructor will work with the program offering the course the student wants credit for to determine who the faculty evaluator will be. At the end of the course, students are expected to complete a portfolio and submit it within a month to the faculty member designated to review the portfolio for a particular course. There is no course fee, but students must pay a [est \$350] fee for each course portfolio evaluated; students do not pay tuition for the credits earned via portfolio. Successful completion of this course is a prerequisite for submitting one or more portfolios for course credit.

### **UNIV 302 CONSTRUCTING A PORTFOLIO OF PRIOR LEARNING (1)**

Students may earn credit for prior learning acquired outside a typical academic setting by submitting a portfolio that demonstrates the learning associated with a particular course. This portfolio course provides students with an understanding of the methodology of portfolio design and prepares them to create a portfolio to be submitted for evaluation by a faculty member with appropriate expertise. Portfolio preparation demands good writing skills, critical thinking, and organization. The course guides students through a structured portfolio development process and provides directions in organizing the required documentation for prior achievements. The course instructor will work with the program offering the course the student wants credit for to determine who the faculty evaluator will be. At the end of the course, students are expected to complete a portfolio and submit it within a month to the faculty member designated to review the portfolio for a particular course. There is no course fee, but students must pay a [est \$350] fee for each course portfolio evaluated; students do not pay tuition for the credits earned via

portfolio. Successful completion of this course is a prerequisite for submitting one or more portfolios for course credit.

## **WRIT: Writing**

### **WRIT 100 READING AND WRITING PROCESS FOR COLLEGE COMPOSITION (3)**

Corequisite study with WRIT 101 to help students use reading, writing, discussion and research for discovery, intellectual curiosity and personal academic growth. Students work in collaborative groups to share, critique and revise their reading and writing. They compose a variety of documents for a range of academic audiences; develop a metacognitive understanding of their reading, writing and thinking processes; and improve their college-level reading and writing skills as they learn to adopt and adapt recursive writing processes. Graded Pass/Fail. Pre-requisite: Directed Self Placement Co-requisite: College Composition

### **WRIT 101 COLLEGE COMPOSITION (3)**

Helps students develop fluency in writing clear, forceful, effective prose and acquire the college-level reasoning, reading and writing skills that they will find necessary for success in other college courses. prerequisite: adequate score on placement test or completion of designated developmental writing courses with a grade of C- or higher [WRIT] [COM] [COMP]

### **WRIT 101A COLLEGE COMPOSITION (3)**

Helps students develop fluency in writing clear, forceful, effective prose and acquire the college-level reasoning, reading and writing skills that they will find necessary for success in other college courses. prerequisite: adequate score on placement test or completion of designated developmental writing courses with a grade of C- or higher [WRIT] [COM] [COMP] co-requisite: Reading and Writing Process for College Composition (WRIT 100).

### **WRIT 190 ENGLISH COMP TUTORIAL (1)**

Fundamental methods for developing expository essays, exploring how writers use descriptions, stories, reasoning, and the techniques of persuasion in essays that aim to define, identify, classify, analyze, compare, and contrast events, objects and ideas. Although primary emphasis is on the forms of the essay as a whole, students also learn principles of organization and cohesion at the sentence and paragraph level. With the instructor's guidance, students practice strategies for brainstorming, planning, drafting, and revising their essays. Short readings are assigned as models and examples of forms of discourse students. Restricted to students who have not already fulfilled the lower-division English Composition requirement.

### **WRIT 200 PRACTICUM IN WRITING (3)**

Designed to review skills developed in WRIT 101 or equivalent and prepare students for successful completion of WRIT 300. Students build skills in critical reading, rhetorical analysis and writing from sources while maintaining a focus on textual conventions. Students write in a variety of genres for inclusion in a final course portfolio. Passing grade is C-or higher. prerequisite: adequate score on placement or placement waiver

### **WRIT 211 POPULAR WRITING (3)**

Explores writing that entertains, informs and persuades. The course includes advertising, journalism, public relations, blogs, political messages, Web content and other mass media. The emphasis is on contemporary writing and writers. The course considers the effects of visual as well as verbal aspects of communication. Students complete several writing assignments in selected forms and styles covered in the course.

### **WRIT 215 INTRODUCTION TO CREATIVE WRITING (3)**

Introduces students to the creative process and craft of writing poetry and fiction by exploring the elements and techniques of those genres. Students write and share poems and short fiction in a workshop setting.

**WRIT 298 TOPICS IN WRITING (3)**

Intensive exploration of topics in writing. The topic for study appears in the class schedule. Course may be repeated for credit when topic changes.

**WRIT 300 COMPOSITION AND RESEARCH (3)**

This course helps students expand their skills in writing effective prose for a variety of audiences, including academic, professional and personal. The course, which emphasizes discipline-specific writing projects, builds on skills previously acquired in lower-level writing courses. It is designed to help students develop additional writing skills needed for success in college and their respective majors. prerequisites: Successful completion of WRIT 101 or equivalent; and a qualifying score on the Upper-Division Writing Placement Test or successful completion of WRIT 200. [WRIT] [COM] [UCOMP]

**WRIT 314 ARGUMENT AND PERSUASION (3)**

For students in all disciplines who wish to develop control and confidence in critical thinking and persuasive writing. Instruction centers on the analysis and production of written arguments on issues of current interest or enduring importance that are enriched by cross-disciplinary perspectives and multiple points of view.

**WRIT 315 CREATIVE WRITING WORKSHOP: MEMOIR (3)**

In a workshop setting, an opportunity to write memoir. Students read and study memoirs by contemporary authors to become familiar with the many possibilities available to writers working in this form. Also focuses on issues relevant to the writing of memoir, including craft and technique, memory and truth telling, and interior and exterior significance.

**WRIT 316 CREATIVE WRITING WORKSHOP: CREATIVE JOURNALISM (3)**

In a workshop setting, provides an opportunity to write creative journalism and study famous journalists and journalistic writing, including analysis of the style, language and ideas of writers who have gone beyond basic reporting to break new ground. Requires a professional approach to journalistic writing.

**WRIT 317 TECHNIQUES OF POPULARIZATION (3)**

Techniques and approaches to making technical information clear and understandable to nontechnical audiences. Applicable for students in English, Writing and Digital Communications, as well as those preparing to work in business, law, and other technical and professional fields.

**WRIT 318 CREATIVE WRITING WORKSHOP: POETRY (3)**

In a workshop setting, students are introduced to a wide range of poems that serve as models for their own writing. This intensive reading, writing and feedback experience helps students deepen their imaginations and develop their craft as poets.

**WRIT 319 CREATIVE WRITING WORKSHOP: FICTION (3)**

Introduces students to the elements of fictional craft and gives them the opportunity to write their own short stories. Students study fiction by masterful writers to learn about language and form. Writing exercises encourage risk taking and originality while generating material to be developed into stories. Students submit their story drafts to the class for discussion.

**WRIT 330 WRITING, EDITING AND PUBLISHING (3)**

An introduction to professional writing, editorial concepts and the publication process. Writing and editing for brochures, newsletters and magazines, with special emphasis on audience and purpose. Laboratory fee may be required.

**WRIT 331 PUBLIC RELATIONS WRITING (3)**

Experience in preparing news releases and other promotional materials for print, electronic, online, and other digital media. Students will integrate writing formats, techniques, and skills to engage and motivate target audiences.

**WRIT 332 INTRODUCTION TO JOURNALISM (3)**

An introduction to journalistic writing and overview of trends and developments in the field. Students will learn to research, write, and present various kinds of basic news stories for traditional and digital media. Throughout the course, they will consider the civic, social, and ethical responsibilities of the profession. Prerequisite: none

**WRIT 361 WRITING FOR DIGITAL MEDIA (3)**

Informational and persuasive writing for electronic and digital media. Emphasizes the translation of information, ideas, and experience into various contemporary one-way and interactive presentational formats.

**WRIT 362 CREATIVE WRITING WORKSHOP: PLAYWRITING (3)**

Intensive writing experience for students interested in writing drama for the stage. Emphasizes characterization, dialogue, and plot development as well as conventions of and script formats for theatre. Lab fee may be required. Prerequisites: none.

**WRIT 363 CREATIVE WRITING WORKSHOP: SCREENWRITING (3)**

Intensive writing experience for students interested in writing drama for television and film. Emphasizes characterization, dialogue and plot development as well as conventions of and script formats for television and film.

**WRIT 367 CREATIVE WRITING WORKSHOP: SPECIAL TOPICS (3)**

In a workshop setting, students are introduced to a wide range of texts within a specific genre that serve as models for their own writing. This intensive reading, writing and feedback experience helps students deepen their imaginations and develop their craft as writers. Prerequisites: none

**WRIT 371 TOPICS IN ADVERTISING (3)**

Principles of verbal and visual communication in creating and executing advertising ideas. Evaluation of the strengths and limitations of the many forms available in persuasive communication. May be repeated for credit when the topic changes.

**WRIT 380 SYNTAX, SEMANTICS AND STYLE (3)**

Fundamentals of discourse analysis, addressing both structural and lexical elements in sentence construction. Survey of contemporary grammars, error analysis, sociolinguistic theories of language behaviors, editorial issues such as linguistic sensitivity, the influence of informal on formal usage and the appropriate domain of editorial policy.

**WRIT 381 LEGAL WRITING & RHETORIC (3)**

Introduces students to the theory and practice of legal discourse by exploring the history of legal rhetoric and learning strategies for reading, writing, and interpreting legal texts. Covers rhetorical conventions, arguments, and analysis; consideration of specific legal audiences and historical exigencies for cases; elements of case briefs, judicial opinions, and legal scholarships; standards for legal research and citation; and special quirks of legal writing. Emphasis is on developments of students' analytical thinking and written communication skills. Prerequisites: none.

**WRIT 401 PUBLICATION AND PERFORMANCE (3)**

A seminar involving a creative project in a particular literary form to be undertaken by each student. Emphasis on exploring the relationships of writing and publications and on developing one's writing in specific publications contexts. Lab fee may be required.

**WRIT 407 INTERNSHIP IN PROFESSIONAL WRITING (3)**

An opportunity for students to apply skills developed through coursework while gaining practical experience in writing and/or editing within a professional setting. Grading: pass/fail. Course is eligible for a continuing studies grade. prerequisites: consent of the Program Director of English Program Internship Coordinator..

**WRIT 430 COPY-EDITING AND DOCUMENT DESIGN (3)**

An advanced technical and professional writing seminar in which each student presents a formal proposal and a major writing project for peer review and critiques other participants' work at all stages of the project development process.

**WRIT 440 INTERNSHP IN UNIVERSITY PUBLICATIONS (3)**

The University publication as a laboratory. Practical experience in the creative process of producing newspapers, magazines and books through work on student publications and, where possible, on other publications of the University. Eligible for continuing studies grade; otherwise, grading: pass/fail.

Prerequisite: consent of the Program Director or Internship Coordinator.

**WRIT 497 TOPICS IN WRITING (3)**

Intensive exploration of topics in writing of mutual interest to students and faculty. Content varies according to the concurrent interests of faculty and students. The subject appears under the Topics heading in the class schedule. Course may be repeated for credit when the topic changes. prerequisite: none unless listed in the current class schedule