

Tentative Course Listing and Descriptions

Notes: class meeting times are depicted as Eastern Time (GMT-04:00); R refers to Thursday; classes where mode and meeting times are not listed are TBD.

Session One

(May 18 - June 27)

ACCOUNTING

» ACC 207 Introduction to Financial Accounting 3 Credits Introduction to financial accounting concepts, procedures, and terminology. The accounting framework for recording transactions and reporting to parties external to the organization. *Mode: Asynchronous*

» ACC 208 Introduction to Managerial Accounting 3 Credits

Management use of accounting data in planning and controlling organization activities; cost accounting and analysis of data for management decision making. *Prerequisite(s): ACC 207; BIZ 201 for business majors, BIZ 200 for non-business majors. Mode: Asynchronous*

» ACC 420 Federal Income Taxation 4 Credits

Study of federal income tax laws and their application to individuals, partnerships, and corporations. Develop research techniques for federal income tax issues as they relate to preparation of federal individual income tax preparation. The historical, social, economic, and political influence on taxation laws are emphasized. Consideration is given to legal, moral, business, and personal factors involved in taxation.

Prerequisite(s): ACC 305 with a minimum grade of 'C' or permission of department chairperson. Mode: Hybrid

Meeting time(s): MTWR 10:00 AM-12:10 PM

BIOLOGY

» BIO 301 Evolution 3 Credits

Theory and evidence of organic evolution, with emphasis on microevolutionary change and population genetics. *Prerequisite(s): BIO 152. Mode: Asynchronous*

» BIO 310 Ecology 3 Credits

Interrelationship of plants, animals, and micro-organisms with the physical-chemical environment: nutrient cycles, energy flow, ecosystems, and factors affecting distribution and abundance of organisms. Core biology course. *Prerequisite(s): BIO 152. Mode: Asynchronous*



Tentative Course Listing and Descriptions

CIVIL AND ENVIRONMENTAL ENGINEERING

» CEE 411 Design of Steel Structures 3 Credits
Design and behavior of structural steel connections, columns, beams, and beams subjected to tension, compression, bending, shear, torsion, and composite action.
Prerequisite(s): CEE 316.
Meeting time(s): MTWR 10:00 AM-11:40 AM

» CEE 412 Design of Concrete Structures 3 Credits
Design and behavior of reinforced concrete slabs, beams, columns, walls, and footings subjected to tension, compression, bending, shear, and torsion.
Prerequisite(s): CEE 311, CEE 316.
Meeting time(s): MTWR 12:00 PM-1:40 PM

COMMUNICATION

» CMM 343 Writing for Electronic and Digital Media 3 Credits Study of concrete approaches to and practical applications of professional level writing for video, audio, television, radio, digital and corporate media platforms. *Mode: Hybrid*

DECISION SCIENCES

» DSC 210 Statistics for Business I 3 Credits

Basic concepts of statistics including descriptive statistics, probability, probability distributions, and estimation.

Prerequisite(s): MTH 128, MTH 129; BIZ 200, BIZ 201 or BAI 103L (may be taken as a corequisite). Mode: Asynchronous

ECONOMICS

» ECO 204 Principles of Macroeconomics 3 Credits

Introductory economic analysis of the macroeconomy; the determination of gross national product, employment, inflation and the interest rate in the U.S. economy. Government policy, money and banking, and international trade are analyzed. *Prerequisite(s): ECO 203. Mode: Asynchronous*

» ECO 347 Intermediate Macroeconomic Analysis 3 Credits

National income accounting and the determination of the level of income and employment; classical, Keynesian, and post-Keynesian models; private, government, and foreign sectors; theories of inflation and economic growth. ECO, ECB, and MTE majors and minors only. *Prerequisite(s): ECO 203, ECO 204. Mode: Asynchronous*



Tentative Course Listing and Descriptions

TEACHER EDUCATION

» EDT 315 Health and Medical Issues for Early Childhood 3 Credits Study of the health and medical needs associated with young children with disabilities. Students engage in collaboration between educational and medical professionals in an effort to integrate services for young children.

» EDT 340 Educating Diverse Student Populations in Inclusive Settings 3 Credits

The study of the evidence based practice in multicultural education where teachers are knowledgeable about and respect diversity, including cultural and racial/ethnic origins, language, gender, sexual identity, religion, economic status and learning challenges associated with exceptionalities. Candidates will aspire to create democratic classrooms with a culturally relevant and inclusive curriculum, incorporating legal aspects and social justice perspectives associated with student learning. Candidates will gain knowledge in the importance of assessments, and ways to differentiate the curriculum to the individual learning needs of students in general classrooms, working in collaboration with other adults in the student's life.

» EDT 344 Collaboration with Families, Professionals and Agencies 3 Credits

This course will explore the complex relationships that exist in home-school partnerships as well as strategies that increase family engagement. The role of families and parents in child rearing and discipline, the impact of culture in understanding how parents view and carry out these responsibilities and protective factors that contribute to child development and resilience in difficult situations will be addressed. The cycle of abuse and child abuse prevention will be discussed. Students will participate in a family-focused service-learning project in a neighborhood school center, urban Catholic school or social service agency. *Prerequisite(s): EDT 321, EDT 321L.*

ENGINEERING MECHANICS

» EGM 202 Dynamics 3 Credits

Kinematics, including translation, rotation, plane motion, and relative motion; kinetics of particles and bodies by the methods of force-mass-acceleration, work-energy, and impulse-momentum.

Prerequisite(s): EGR 201. Mode: Synchronous Meeting time(s): MTWR 12:00 PM-1:40 PM

» EGM 303 Mechanics II 3 Credits

The study of stresses, strains, and deflections in tension, compression, shear, flexure, and torsion; shear and moment diagrams; analysis of stresses and strains at a point; mohr's circle; analysis of columns.

Prerequisite(s): EGR 201. Mode: Synchronous Meeting time(s): MTWR 10:00 AM-11:40 AM



Tentative Course Listing and Descriptions

ENGINEERING

» EGR 201 Engineering Mechanics 3 Credits

This course provides an introduction to mechanics as applied to engineering problems. Principles of force and moment balance, work, and energy conservation are applied to systems in static equilibrium. The similarity of balance laws applied to mechanical behavior to those used in thermodynamics and electric circuits is introduced. Students are introduced to the concepts of free-body diagrams and equivalent systems of forces, properties of areas and sections, analysis of simple structures, internal forces, stress, and material failure. Introduces a common problem-solving approach and processes to address and solve open ended problems and creative application of theory. Both analytical and computer solutions of engineering mechanics problems are emphasized. This course is part of the Integrated Engineering Core for all engineering students.

Prerequisite(s): MTH 168; PHY 206. Mode: Synchronous Meeting time(s): MTWR 10:00 AM-11:40 AM

ENGLISH

» ENG 280 Introduction to Creative Writing 3 Credits Introduction to writing poetry, short fiction, and creative non-fiction.

FINANCE

» FIN 301 Introduction to Financial Management 3 Credits

Principles and techniques used by business firms in managing and financing their current and fixed assets; sources of funds within the capital markets; determinants of the financial structure; analytical techniques.

Prerequisite(s): (BIZ 200 or BIZ 201); [ACC 200 or ACC 207 or (ACC 300A and ACC 300B)]; (ECO 203 or 204); business majors only.

Mode: Asynchronous

» FIN 360 Investments 3 Credits

The principles and techniques used by the investor in selecting securities, emphasis on the stock and bond markets; security valuation methods leading to the selection of individual issues; portfolio theory.

Prerequisite(s): FIN 300 or FIN 301, with minimum grade of C+. Mode: Asynchronous

 » FIN 460 Finance Capstone: Portfolio Management and Security Analysis 3 Credits Advanced valuation theory and security analysis; portfolio construction, evaluation, and management. Senior status required. *Prerequisite(s): FIN 360. Mode: Asynchronous*



Tentative Course Listing and Descriptions

» FIN 470 Fixed Income Securities 3 Credits

Introduction to the analytical/computational techniques for pricing fixed income securities, interest rate derivatives, and implementing effective portfolio strategies to control interest rate risk and enhance return.

Prerequisite(s): FIN 360 or FIN 371. Mode: Asynchronous

FRENCH

» FRN 311 French Conversation I 3 Credits

Intensive practice in speaking French to develop oral communication skills. Emphasis on vocabulary development, listening comprehension, simulation of life-like situations, and discussions on French life and culture. FRN 311 and FRN 312 may be taken in any order. *Prerequisite(s): FRN 301.*

Mode: Hybrid

HUMAN RIGHTS STUDIES

» HRS 200 Introduction to Human Rights 3 Credits

Exploration of the rights of individuals and groups at global, national and local levels. Examination of basic questions about what humans are and what rights are, and a careful consideration of the foundations of rights claims and the myriad of mechanisms for defending and enforcing rights. Investigation into the key social, political, historical, and economic factors that lead to human rights violations and ways in which human rights research methods inform human rights theory and practice.

Mode: Hybrid

Meeting time(s): MTWR 2:00 PM-3:40 PM

HEALTH and SPORT SCIENCE

» HSS 201 Medical Terminology 2 Credits

This course is designed to introduce and build the skills and knowledge needed to develop an understanding of the terminology used in medical and health professions. The mechanism of building a medical vocabulary, utilizing roots, prefixes, suffixes, and the combining forms, and the spelling, pronunciation, and abbreviations are emphasized.

» HSS 206 Fundamentals of Human Anatomy and Physiology 3 Credits

Fundamental-level coverage of human anatomy and physiology. Major topics include: basic chemistry and metabolism, cells and tissues, skeletal, muscular, nervous, endocrine, cardiovascular, and respiratory systems.

Prerequisite(s): BIO 101 or BIO 151 or CHM 123 or CHM 200 or PHY 105 or PHY 201 or PHY 206 or SCI 180 or SCI 190.



Tentative Course Listing and Descriptions

» HSS 330 Leadership in Sport 3 Credits

As our society and industries adapt and reinvent themselves, especially in the sport (service) industry, there is a need for individuals within organizations to step up to the role of a leader, independent of their formal position. Therefore, the purpose of this course is for students to start (or continue) to develop their self-awareness, understanding, knowledge and practice of leadership.

Mode: Hybrid

Meeting time(s): W11:00 AM-12:15 PM

» HSS 356 Organizational Behavior in Health and Sport 3 Credits

Overview of the individual, group, and organization level factors utilized to manage people for personal, team, and organizational effectiveness in health, wellness, and sport organizations. *Prerequisite(s): HSS 255 for ESM majors; none for EHA majors. Mode: Hybrid*

Meeting time(s): T 1:00 PM-1:45 PM

MANAGEMENT INFORMATION SYSTEMS

» MIS 203L Introduction to Spreadsheets 3 Credits Introduction to electronic spreadsheet software (e.g., Microsoft Excel) skills. *Prerequisite(s): BIZ 100 or BIZ 102 or BIZ 200 or BIZ 201 or permission of instructor. Mode: Asynchronous*

» MIS 301 Information Systems in Organizations 3 Credits

Survey of theory and applications of computer-based information systems in organizations. The role of information in organizational processes, current information technology, decision support systems, and end-user computing and distributed processing systems. Sophomores are encouraged to take this course during their second term.

Prerequisite(s): BIZ 200 or BIZ 201; or [ACC 207; (ACC 208 or ACC 200) (may be taken as a corequisite); ECO 203]; business majors only. Mode: Asynchronous

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MUSIC

» MUS 304 The Practice of American Music 3 Credits

An exploration of American musical practices and traditions in relation to America's political, social and racial history. This course is a theme-based course. Open to all University students. *Mode: Asynchronous*

» MUS 352 Understanding Sacred Music and Worship in the Local Church 3 Credits

Study of the important relationship between music and worship in the life of the individual and in the life of the corporate Christian church with an emphasis on developments in recent decades. Studies the distinction and interconnectedness of the local church (congregation) and the Institutional Church. An historical overview of music and worship with Biblical foundations is provided.

Prerequisite(s): REL 103 or ASI 110 or equivalent. Mode: Asynchronous

Summer 2020 Virtual Visiting Student Program (VVSP) Supplement



Tentative Course Listing and Descriptions

PHILOSOPHY

» PHL 310 Social Philosophy 3 Credits

The concepts of liberty, justice, and equality as they relate to social problems such as autonomy, responsibility, privacy, common good, power, economic justice, and discrimination. This course also addresses how the obstacles to justice can be overcome. Prerequisite(s): PHL 103 or equivalent. Mode: Asynchronous

POLITICAL SCIENCE

» POL 201 The American Political System 3 Credits

Study of the American political system, its attitudinal and constitutional base, its structure and processes.

Mode: Asynchronous

» POL 381 Film and Politics 3 Credits

Exploration of film as a medium for both reflecting societal opinions and influencing those opinions. In this course, students will investigate various political topics and issues and explore how American narrative film has dealt with these topics integrated across fields such as history, economics, communications and sociology. Mode: Asynchronous

SPANISH

» SPN 101 Basic Proficiency in Spanish I 4 Credits

Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied Spanish or have placed into this course by examination. Mode: Hybrid

SOCIAL SCIENCE INTERGRATED

» SSC 200 Social Science Integrated 3 Credits

A theme-based course that varies across sections but shares common learning outcomes. Application of social science methods and social theory to critically examine human issues and problems from the perspective of at least three social science disciplines (anthropology, economics, political science, psychology and sociology). The course will emphasize outcomes related to scholarship, critical evaluation of our times, and the diversity of the human world. *Prerequisite(s): Sophomore standing.* Mode: Asynchronous

Summer 2020 Virtual Visiting Student Program (VVSP) Supplement



Tentative Course Listing and Descriptions

THEATRE

» THR 105 Theatre Appreciation 3 Credits

Experiential and co-curricular course designed to engage students and create an appreciation for and understanding of live theatre and performance through attendance at selected performances on the campus and in the community. Open to all University students. *Mode: Asynchronous*

ART AND DESIGN-ART HISTORY

» VAH 101 Introduction to the Visual Arts 3 Credits

Thematically-based, non-chronological introduction that covers the fundamental and varied roles that the visual arts have played and continue to play in the human experience. Open to all students.

Mode: Asynchronous

» VAH 202 Survey of Art II 3 Credits

Survey of Western art from the late medieval period through the Baroque period. *Mode: Asynchronous*



Tentative Course Listing and Descriptions

Session Two

(June 29 - August 8)

ACCOUNTING

» ACC 207 Introduction to Financial Accounting 3 Credits Introduction to financial accounting concepts, procedures, and terminology. The accounting framework for recording transactions and reporting to parties external to the organization. *Mode: Asynchronous*

» ACC 208 Introduction to Managerial Accounting 3 Credits

Management use of accounting data in planning and controlling organization activities; cost accounting and analysis of data for management decision making. Prerequisite(s): ACC 207; BIZ 201 for business majors, BIZ 200 for non-business majors. Mode: Asynchronous

» ACC 306 Intermediate Financial Accounting II Part II 3 Credits

Part II of comprehensive treatment of financial accounting concepts, principles, and procedures used in the preparation and analysis of financial statements. *Prerequisite(s): ACC 303 and ACC 305 with a minimum grade of 'C' or permission of Department Chairperson. Mode: Hybrid Meeting time(s): MTR 10:00 AM-11:40 AM*

CHEMISTRY

» CHM 123 General Chemistry 3 Credits

Comprehensive treatment of the fundamentals of general chemistry. *Prerequisite(s): One year of high school chemistry or equivalent. Mode: Asynchronous*

» CHM 420 Biochemistry 3 Credits

The fundamental aspects of the chemistry and biochemistry of carbohydrates, lipids, proteins, and nucleic acids. Enzymology, protein purification, bioenergetics, metabolism of carbohydrates, lipids, amino acids, nucleotides and nucleic acids, elementary molecular biology, and control processes are described. Acceptable preparation for medical school. *Prerequisite(s): CHM 314. Mode: Asynchronous*



Tentative Course Listing and Descriptions

COMMUNICATION

» CMM 100 Principles of Oral Communication 3 Credits

Introduces the relationship between communication and democratic life in contemporary and historical contexts. This course examines the importance of communication in achieving mutual understanding and provides the opportunity to demonstrate effective and ethical dialogue. Students learn to structure messages that deliver complex information to non-experts, effectively advocate a position, and critique the messages of others.

DECISION SCIENCES

» DSC 211 Statistics for Business II 3 Credits

Tests of hypotheses, analysis of variance, Chi-square tests, simple and multiple regression and correlation. Use of computer software for statistical data analysis. *Prerequisite(s): BAI 103L or BIZ 200 or BIZ 201; DSC 210; MTH 129. Mode: Asynchronous*

ECONOMICS

» ECO 203 Principles of Microeconomics 3 Credits

An introduction to consumer and producer behavior in a market economy, demand and supply, pricing and firm behavior under perfect and imperfect competition, and the distribution of income. Discussion of current topics in microeconomics may be included. *Mode: Asynchronous*

» ECO 204 Principles of Macroeconomics 3 Credits

Introductory economic analysis of the macroeconomy; the determination of gross national product, employment, inflation and the interest rate in the U.S. economy. Government policy, money and banking, and international trade are analyzed. *Prerequisite(s): ECO 203. Mode: Asynchronous*

ENGINEERING MECHANICS

» EGM 202 Dynamics 3 Credits

Kinematics, including translation, rotation, plane motion, and relative motion; kinetics of particles and bodies by the methods of force-mass-acceleration, work-energy, and impulse-momentum.

Prerequisite(s): EGR 201. Mode: Synchronous Meeting time(s): MTWR 12:00 PM-1:40 PM



Tentative Course Listing and Descriptions

» EGM 303 Mechanics II 3 Credits

The study of stresses, strains, and deflections in tension, compression, shear, flexure, and torsion; shear and moment diagrams; analysis of stresses and strains at a point; mohr's circle; analysis of columns.

Prerequisite(s): EGR 201. Mode: Synchronous Meeting time(s): MTWR 10:00 AM-11:40 AM

ENGLISH

» ENG 100 Writing Seminar I 3 Credits

Introductory level course focused on writing as a mode of inquiry. Emphasis on developing college-level reading, writing, research, and critical thinking skills. Contributes to the Humanities Commons of CAP by introducing students to the shared academic practices of inquiry and discovery through writing.

» ENG 200 Writing Seminar II 3 Credits

Variable topic composition course focused on academic discourse, research, and argumentation. Instruction and practice in developing reading, writing, and research skills introduced in ENG 100 and employed across the curriculum. Emphasis on rhetorical analysis and a process approach to writing effective academic arguments. Students must pass the course with a grade of C- or higher to satisfy College of Arts and Sciences' composition competency requirement. *Prerequisite(s): ENG 100, or (ENG 100A and ENG 100B) or ENG 101, and sophomore status, or placement as determined by the Dean's Office.*

» ENG 270 Reading and Writing in the American University 4 Credits

Provides students who are English language learners with an understanding of rhetorical principles and the conventions of Western academic literacy as well as competence in applying those principles and conventions for success as writers in an American university. *Prerequisite(s): Permission of department chairperson.*

» ENG 372 Business and Professional Writing 3 Credits

Analysis and practice in effective workplace communication. Emphasis on rhetorical elements to produce documents for both business and professional situations. *Prerequisite(s): ENG 200 or ENG 200H or ASI 120 or equivalent; junior or senior standing.*

» ENG 468 Introduction to Linguistics 3 Credits

Introduction to the basic concepts and procedures of general linguistics, including language description, history, variation, theory, and acquisition. *Prerequisite(s): ENG 200 or ENG 114 or ENG 198 or ASI 120 or equivalent; junior or senior standing or permission of department chairperson.*



Tentative Course Listing and Descriptions

FINANCE

» FIN 301 Introduction to Financial Management 3 Credits

Principles and techniques used by business firms in managing and financing their current and fixed assets; sources of funds within the capital markets; determinants of the financial structure; analytical techniques.

Prerequisite(s): (BIZ 200 or BIZ 201); [ACC 200 or ACC 207 or (ACC 300A and ACC 300B)]; (ECO 203 or 204); business majors only. Mode: Asynchronous

» FIN 450 International Business Finance 3 Credits

Introduction to problems facing financial management of international companies, including foreign exchange risk, working capital and capital budgeting decisions for multinational corporations, international financing, accounting and control. *Prerequisite(s): FIN 300 or FIN 301. Mode: Asynchronous*

FRENCH

» FRN 101 Basic Proficiency in French I 4 Credits

Development of basic communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use. Admission is restricted to those who have not studied French or have placed into this course by examination. *Mode: Hybrid*

GEOLOGY

» GEO 109 Earth, Environment, and Society 3 Credits

This course examines the complex relationship between natural geologic processes and their effects on human society. The course will examine fundamental geologic processes and associated hazards (such as earthquakes, tsunamis, volcanic eruptions, flooding) while also assessing human impacts such as pollution, energy industry and land-use planning. This course provides an opportunity to discuss, from a geologic perspective, the ramifications of and potential solutions to problems associated with utilization of Earth's resources. Laboratory optional but not required. *Mode: Synchronous*

Meeting time(s): MW 1:00 PM-2:00 PM

» GEO 109L Earth, Environment, and Society Lab 1 Credit

Laboratory exercises in Earth and Environmental Science to accompany GEO 109 Lecture. Two hours each week.

Prerequisite(s): (GEO 109 or GEO 115 or GEO 208 or SCI 210 – may be taken as a corequisite); permission of instructor.

Mode: Asynchronous



Tentative Course Listing and Descriptions

» GEO 204 Geology for Teachers 4 Credits

Introduction for preservice teachers to the Earth system and the processes that operate in the atmosphere, hydrosphere, biosphere, and solid Earth. Emphasis is on understanding how interactions among these fundamental Earth systems maintain our livable planet. Students will explore the Earth system through best practices in teaching and inquiry, and through field trips. For ECE, EMS, and EMM majors only. Students completing this course may not take SCI 210. *Prerequisite(s): EDT 110; SCI 190.*

Mode: Asynchronous

HEALTH and SPORT SCIENCE

» HSS 201 Medical Terminology 2 Credits

This course is designed to introduce and build the skills and knowledge needed to develop an understanding of the terminology used in medical and health professions. The mechanism of building a medical vocabulary, utilizing roots, prefixes, suffixes, and the combining forms, and the spelling, pronunciation, and abbreviations are emphasized. *Mode: Asynchronous*

» HSS 250 Principles of Sport Management 3 Credits

Examination of the nature of management from theoretical and practical perspectives in a variety of sport settings. Focus on managerial functions and skills. *Prerequisite(s): HSS 111. Mode: Asynchronous*

» HSS 295 Nutrition and Health 3 Credits

Study of the nutrient needs of humans and of their choices as modified by socioeconomic, cultural, and life cycle factors. Sophomore standing. *Mode: Asynchronous*

» HSS 357 Sports Marketing 3 Credits

Course content is designed to give students an understanding of marketing principles applied to sport, sport events, and sport products. Marketing strategies including the sales, promotions, and advertising of sport will be emphasized. *Mode: Asynchronous*

MANAGEMENT INFORMATION SYSTEMS

» MIS 303L Using Spreadsheets in Business 1 Credit
Use of electronic spreadsheets (e.g., Microsoft Excel) as a tool to support business decision making.

Prerequisite(s): BIZ 200 or BIZ 201 or MIS 203L or permission of instructor. Mode: Asynchronous



Tentative Course Listing and Descriptions

MATHEMATICS

» MTH 169 Analytic Geometry and Calculus II 4 Credits Continuation of MTH 168. Conic sections, techniques of integration with applications to science and engineering, infinite series, indeterminate forms, Taylor's theorem. *Prerequisite(s): BIZ 200 or BIZ 201 or MIS 203L or permission of instructor. Mode: Asynchronous*

PHILOSOPHY

» PHL 312 Ethics 3 Credits

Ethics is a stand-alone branch of philosophic inquiry that examines the internal coherency of various ethical systems as well as their applicability to solving personal dilemmas, social injustices and real-world problems.

Prerequisite(s): PHL 103 or ASI 120 or equivalent. Mode: Asynchronous

» PHL 325 Philosophy of Music 3 Credits

Philosophical investigation of the nature and value of music with emphasis on the varied attributes and purposes of music in relation to art, language, emotion, spirituality, and culture. *Prerequisite(s): PHL 103 or ASI 120 or equivalent. Mode: Asynchronous*

» PHL 355 Asian Philosophy 3 Credits

Introduction to Asian thought through the study of philosophers, texts, philosophical schools, and concepts that have their origins in Asia. Comparisons of various Asian philosophies and religions with each other as well as with Western traditions. *Prerequisite(s): PHL 103 or ASI 120 or equivalent. Mode: Asynchronous*

POLITICAL SCIENCE

» POL 202 Introduction to Comparative Politics 3 Credits Analysis of major concepts and approaches in the study of comparative government and politics. *Mode: Asynchronous*

» POL 214 Introduction to International Politics 3 Credits

Analysis of the dynamic forces of conflict and cooperation in world politics. *Mode: Asynchronous*



Tentative Course Listing and Descriptions

PSYCHOLOGY

» PSY 101 Introductory Psychology 3 Credits

Study of human behavior including development, motivation, emotion, personality, learning, perception; general application of psychological principles to personal, social, and industrial problems. Students must participate in departmental research. *Mode: Asynchronous*

INTEGRATED NATURAL SCIENCE

» SCI 190 The Physical Universe 3 Credits

Conceptual survey of the fundamental laws of physics that govern the physical universe with the themes of evolution, energy and environment as unifying threads through the course. Topics include the laws of motion, gravitation, thermodynamics, electromagnetism, waves, sound, light and modern physics.

Mode: Asynchronous

SOCIOLOGY

» SOC 394 Popular Culture 3 Credits

Introduction to an understanding of popular culture and the entertainment industry, culture trends, popular entertainers and performers and what they reveal about society. This course examines the nature of musical choice, television, radio, Internet, genres and styles, distribution, performance, and the social construction of popular culture. Sophomore standing or higher. *Mode: Asynchronous*

SPANISH

» SPN 141 Basic Proficiency in Spanish II 4 Credits
Further development of fundamental communication and intercultural skills in reading, listening, writing, and speaking through extensive practice in language use.
Prerequisite(s): (SPN 101 or SPN 131) or placement by examination.
Mode: Hybrid

ART AND DESIGN-ART HISTORY

» VAH 101 Introduction to the Visual Arts 3 Credits

Thematically-based, non-chronological introduction that covers the fundamental and varied roles that the visual arts have played and continue to play in the human experience. Open to all students.

Mode: Asynchronous



Tentative Course Listing and Descriptions

Full Term

(May 18 - August 8)

CHEMISTRY

» CHM 123 General Chemistry 3 Credits Comprehensive treatment of the fundamentals of general chemistry. *Prerequisite(s): One year of high school chemistry or equivalent. Mode: Asynchronous*

CHEMICAL ENGINEERING

» CME 203 Material and Energy Balances 3 Credits Introductory course on the application of mass and energy conservation laws to solve problems

typically encountered in chemical process industries. *Prerequisite(s): CHM 123; MTH 138 or MTH 168. Corequisite(s): CME 211. Mode: Asynchronous*

» CME 211 Introduction to Thermodynamics for Chemical Engineers 3 Credits

First law of thermodynamics, states of matter, equations of state, open and closed system energy balances, reactive energy balances, entropy, 2nd law of thermodynamics, introduction to power cycles and refrigeration.

Prerequisite(s): PHY 206; CHM 123; MTH 138 or MTH 168. Mode: Asynchronous

» CME 281 Chemical Engineering Computations 3 Credits

Development of computational skills with an emphasis on algorithm development and problem solving. Computational skills are applied to typical problems in chemical engineering, data analysis, numerical methods. *Corequisite(s): CME 203; MTH 169. Mode: Hybrid*

Meeting time(s): MW 2:00 PM-3:40 PM

» CME 306 Chemical Reaction Kinetics and Engineering 3 Credits

Chemical reaction kinetics, ideal reactor analysis and design, multiple reactor/reaction systems, and heterogeneous catalysis. *Prerequisite(s): CME 311. Corequisite(s): CME 324. Mode: Hybrid Meeting time(s): MW 4:00 PM-5:40 PM*



Tentative Course Listing and Descriptions

» CME 311 Chemical Engineering Thermodynamics 3 Credits

Development and application of the fundamental principles of chemical thermodynamics: Vapor/ liquid equilibrium, solution thermodynamics, chemical reaction equilibria, and thermodynamic analysis of chemical engineering processes. *Prerequisite(s): CME 203, CME 211; MTH 218. Mode: Asynchronous Meeting time(s): MW 12:00 PM-1:40 PM*

» CME 325 Transport Phenomena II 3 Credits

Multidimensional momentum, energy, and mass transport, dimensionless parameters, turbulence and numerical solution methods. *Prerequisite(s): CME 324, CME 381. Mode: Hybrid Meeting time(s): TR 4:00 PM-5:40 PM*

» CME 326L Transport Phenomena Laboratory 2 Credits

Viscosity, conductivity, diffusion coefficient measurements, velocity, temperature, concentration profiles, engineering instrumentation, and experimental error analysis. *Prerequisite(s): CHM 124L; CME 324*.

Corequisite(s): CME 325. Mode: Hybrid Meeting time(s): T 11:30 AM-3:30 PM

» CME 365 Separation Techniques 3 Credits

Equilibrium staged separations: distillation, extraction and absorption, with an emphasis on distillation. *Prerequisite(s): CME 311, CME 324. Mode: Hybrid Meeting time(s): MW 12:00 PM-1:40 PM*

» CME 452 Process Control 3 Credits

Mathematical models, Laplace transform techniques, and process dynamics. Feedback control systems, hardware, and instrumentation. Introduction to frequency response, advanced techniques, and digital control systems. *Prerequisite(s): CME 381. Corequisite(s): CME 306. Mode: Asynchronous*

COMMUNICATION

» CMM 100 Principles of Oral Communication 3 Credits

Introduces the relationship between communication and democratic life in contemporary and historical contexts. This course examines the importance of communication in achieving mutual understanding and provides the opportunity to demonstrate effective and ethical dialogue. Students learn to structure messages that deliver complex information to non-experts, effectively advocate a position, and critique the messages of others.



Tentative Course Listing and Descriptions

» CMM 202 Foundations of Communication Theories and Research 3 Credits Study of the nature and scope of communication theories and research. Examination of how the communication discipline developed from classical traditions to its modern perspective.

» CMM 352 Persuasion 3 Credits

An in depth examination of the attitude - behavior relationship and a detailed overview of persuasion theory. Students will create and test the effectiveness of theoretically derived messages in a service learning project and study the role communication plays this process. *Prerequisite(s): Sophomore standing.*

COMPUTER SCIENCE

» CPS 450 Design and Analysis of Algorithms 3 Credits

Introduction to order notation and algorithm analysis. Emphasis will be on learning algorithm design techniques such as divide and conquer, greedy approach, and dynamic programming through exposition of classical algorithms from domains such as sorting, string matching, and graph algorithms. Hardness of problems and introduction to the complexity classes P, NP, and NP-complete. Topics also include impact of computing techniques to the improvement or welfare of society as a whole.

Prerequisite(s): CPS 341, CPS 350.

ELECTRICAL AND COMPUTER ENGINEERING

» ECE 204 Electronic Devices 3 Credits

Study of the terminal characteristics of electronic devices and basic single stage amplifier configurations using bipolar junction transistors and field-effect transistors. Analysis of the devices includes a qualitative physical description, volt-ampere curves, and the development of small- and large-signal equivalent circuit models.

Prerequisite(s): EGR 203 or ECE 201. Corequisite(s): ECE 204L. Mode: Asynchronous Meeting time(s): MW 2:00 PM-3:40 PM

» ECE 303 Signals and Systems 3 Credits

Mathematical framework associated with the analysis of linear systems including signal representation by orthogonal functions, convolution, Fourier and Laplace analysis, and frequency response of circuits and systems. *Prerequisite(s): ECE 204; MTH 219 and ECE 203.*

Corequisite(s): ECE 303L. Mode: Synchronous Meeting time(s): TR 10:00 AM-11:40 AM



Tentative Course Listing and Descriptions

» ECE 303L Signals and Systems Laboratory 1 Credit
 Laboratory investigation of signals and systems including signal decomposition, system impulse
 response, convolution, frequency analysis of systems, and filter design and realization.
 *Prerequisite(s): ECE 204. Corequisite(s): ECE 303. Mode: Synchronous
 Meeting time(s): W 2:00 PM-4:00 PM*

» ECE 304 Electronic Systems 3 Credits

ELECTRONIC SYSTEMS Study of cascaded amplifiers, feedback amplifiers, linear integrated circuits, and oscillators including steady state analysis and analysis of frequency response. *Prerequisite(s): ECE 303. Corequisite(s): ECE 304L.*

Mode: Hybrid Meeting time(s): MW 12:00 PM-1:40 PM

» ECE 304L Electronic Systems Laboratory 1 Credit

Design, construction and verification of multistage amplifiers, differential amplifiers, feedback amplifiers, passive and active filters, and oscillators. *Prerequisite(s): ECE 303. Corequisite(s): ECE 304. Mode: Hybrid*

Mode: Hybrid Meeting time(s): T 10:00 AM-12:00 PM

» ECE 333 Applied Electromagnetics 3 Credits

Electromagnetic theory applied to problems in the areas of waveguides, radiation, electro-optics and electromagnetic interference and electromagnetic compatibility. *Prerequisite(s): ECE 332. Mode: Synchronous Meeting time(s): TR 4:00 PM-5:40 PM*

» ECE 334 Discrete Signals and Systems 3 Credits

Introduction to discrete signals and systems including sampling and reconstruction of continuous signals, digital filters, frequency analysis, the z-transform, and the discrete Fourier transform. *Prerequisite(s): ECE 303. Mode: Synchronous*

Meeting time(s): TR 2:00 PM-3:40 PM

» ECE 398 Multidisciplinary Research and Innovation Laboratory 3 Credits

Students participate in 1.) selection and design, 2.) investigation and data collection, 3.) analysis, and 4.) presentation of a research project. Research can include, but is not limited to, developing an experiment, collecting and analyzing data, surveying and evaluating literature, developing new tools and techniques including software, and surveying, brainstorming, and evaluating engineering solutions and engineering designs. Proposals from teams of students will be considered.

Mode: Synchronous



Tentative Course Listing and Descriptions

» ECE 401 Communication Systems 3 Credits

Study of amplitude, angle, pulse, and digital communication systems including generation, detection, and analysis of modulated signals and power, bandwidth, and noise considerations. *Prerequisite(s): ECE 304, ECE 340. Corequisite(s): ECE 401L. Mode: Synchronous Meeting time(s): TR 4:00 PM-5:40 PM*

» ECE 401L Communication Systems Laboratory 1 Credit

Design, fabrication, and laboratory investigation of modulators, detectors, filters, and associated communication components and systems. *Prerequisite(s): ECE 304. Corequisite(s): ECE 401.*

Mode: Synchronous Meeting time(s): R 10:00 AM-12:00 PM

» ECE 415 Control Systems 3 Credits

Study of mathematical models for control systems and analysis of performance characteristics and stability. Design topics include pole-placement, root locus, and frequency domain techniques. *Prerequisite(s): ECE 303.*

Mode: Asynchronous Meeting time(s): MW 4:00 PM-5:40 PM

» ECE 431L Multidisciplinary Design I 2 Credits

Application of engineering fundamentals to sponsored multidisciplinary-team design projects. In a combination of lecture and lab experiences, students learn the product realization process and project management. Product realization topics include idea generation, proposal development, design specifications, conceptualization and decision analysis. Project management topics include cost estimation and intellectual property management. Design projects progress to the proof of concept and prototype development stages.

Prerequisite(s): MEE students: EGM 303; MEE 321, and (MEE 344 or MEE 478 or RCL 578, or MEE 401 or MEE 409), ECE students: ECE 304 or ECE 314.

Mode: Hybrid

Meeting time(s): MW 8:00 AM-10:30 AM

» ECE 432L Multidisciplinary Design II 3 Credits

One hour lecture and five hours of lab per week. Detailed evaluation of the Product Realization Process focusing on conceptual design, embodiment design, final design and prototyping is taught. Analysis of the design criteria for safety, ergonomics, environment, cost and sociological impact is covered. Periodic oral and written status reports are required. The course culminates in a comprehensive written report and oral presentation.

Prerequisite(s): MEE majors: MEE 431L; CPE majors: ECE 431L and (ECE334 or CPS444); ELE majors: ECE431L and (ECE 401 or ECE415).

Mode: Hybrid

Meeting time(s): MW 8:00 AM-10:30 AM



Tentative Course Listing and Descriptions

» ECE 444 Advanced Digital Design 3 Credits

An introduction to modern digital hardware logic design using a hierarchical system approach including top-down development process. An introduction to alternative design implementation forms including hardware description languages (HDLs) for the design of simple and complex combinatorial logic circuits and sequential logic designs with finite state machines. Good HDL coding practices such as readability, re-configurability, and efficient execution are emphasized along with the use of programmable logic circuits including Field-Programmable Gate Arrays (FPGAs).

Prerequisite(s): ECE 215. Mode: Synchronous Meeting time(s): TR 4:00 PM-5:40 PM

» ECE 465 Fundamentals of Solid-State Batteries 3 Credits

Introduction to the fundamental of solid-state, safe, durable, batteries, including working principles of a battery, state-of-the-art battery (Li-ion battery based on liquid-state electrolytes-advantages/disadvantages), battery safety, need for a safe battery system for low-high power applications (electric vehicles / unmanned-/manned aircrafts, space vehicles, etc.), different design of solid-state batteries (planner-stacked, 3 dimensional, etc.), engineering the structural battery (dual functionality system that can carry mechanical load and store energy), characterization methods to evaluate structure / electrical / electrochemical properties of all solid-state battery materials (cathode, anode, electrolytes), interfaces (electrodes/electrolyte), and electrical / electrochemical testing of complete battery cells. Also, electrical test methods to evaluate solid-state battery (including structural battery) performances, etc.), and understanding degradation mechanism of solid-state battery systems (including structural battery) will be discussed.

Prerequisite(s): ECE 304 or equivalent. Mode: Hybrid Meeting time(s): TR 2:00 PM-3:40 PM

ELECTRONIC COMPUTER TECHNOLOGY

» ECT 110 Electrical Circuits I 3 Credits

Practical concepts of single voltage source DC and AC circuits: current, voltage, resistance, power, series and parallel circuits, capacitance, magnetic circuits, and inductance. *Corequisite(s): SET 150; ECT 110L. Mode: Hybrid*

Meeting time(s): TR 8:00 AM-9:40 AM

» ECT 110L Electrical Circuits I Laboratory 1 Credit

Experiments in single voltage source DC and AC circuits to accompany ECT 110. Three laboratory hours per week. *Corequisite(s): ECT 110.*

Mode: Hybrid Meeting time(s): TR 10:00 AM-11:40 AM



Tentative Course Listing and Descriptions

TEACHER EDUCATION

» EDT 305 Philosophy and History of American Education 3 Credits This course is the study of American philosophy of education in a historical framework /

This course is the study of American philosophy of education in a historical framework. This course emphasizes the political analyses of educational issues in their historical context. Thematic issues from the Catholic/Marianist perspective are included among the topics studied. *Mode: Asynchronous*

» EDT 341 Language Development, English Language Learners and Emergent Literacy 3 Credits

This course is the study of oral language and literacy development in children, with implications for all learners, including children with special needs and English Language Learners.

» EDT 342 Behavior Management 3 Credits

This course examines the principles and methods of observing, recording, measuring and managing human behavior with emphasis on students with disabilities.

ENGINEERING

» EGR 103 Engineering Innovation 2 Credits

First year multi-disciplinary innovation projects primarily geared towards skill development in the areas of requirements analysis, creativity, conceptual design, design and problem-solving processes, prototyping, teamwork, and project communications. Application to the development of a new product or technology meeting societal needs. This course is part of the Integrated Engineering Core for all engineering students.

Mode: Hybrid

Meeting time(s): T 9:00 AM-9:45 AM

» EGR 203 Electrical and Electronic Circuits 3 Credits

This course provides an introduction to the discipline of Electrical and Computer Engineering. Covers principles of linear circuit analysis and problem solving techniques associated with circuits containing both passive and active components. Students are introduced to DC circuit analysis, AC circuit analysis, and transient circuit analysis. Applications of basic electronic devices including diodes, transistors, and operational amplifiers are studied. Both analytical and computer solutions of electrical and electronic circuit problems are emphasized. This course is part of the Integrated Engineering Core for all engineering students.

Prerequisite(s): MTH 168. Mode: Hybrid

Meeting time(s): TR 12:00 PM-1:40 PM



Tentative Course Listing and Descriptions

» EGR 330 Engineering Design and Appropriate Technology 0-3 Credits

An experiential course in appropriate technology and engineering design which spans the winter and summer semesters and includes language preparation, cultural immersion, selected readings, and discussions on appropriate technology and a six to sixteen week summer service-learning experience focused on technical or engineering related work in a developing country. *Prerequisite(s): Junior or senior status; permission of instructor. Mode: Hybrid Meeting time(s): MW 9:30 AM-10:45 AM*

ENGLISH

» ENG 373 Writing in the Health Professions 3 Credits

Intensive practice in reading and writing for the healthcare professions. Practice in rhetorically composing written medical information in specific genres for various purposes and audiences (such as patient educational materials to patients and families and medical reports to health professionals). Critical reading, analysis, and reflection on issues, trends, and texts in healthcare. Topics include medical writing research strategies and writing the personal essay for graduate/ professional school applications.

Prerequisite(s): (ENG 200 or ENG 200H) or ASI 120 or equivalent; junior or senior standing.

HISTORY

» HST 346 History of American Aviation 3 Credits

Exploration of the technological, social, political, military and industrial history of American aviation.

Prerequisite(s): HST 103 or ASI 110 or equivalent. Mode: Asynchronous

» HST 355 American Urban History 3 Credits

An examination of the modern American city from the late 19th century to the present. The course addresses contemporary (as well as historic) social issues and problems; examines significant social issues or problems in a multidisciplinary or interdisciplinary framework; and, most importantly, brings together different disciplinary perspectives to enhance students' understanding of significant issues facing the modern American city. *Prerequisite(s): HST 103; junior standing*.

Mode: Asynchronous



Tentative Course Listing and Descriptions

INDUSTRIAL ENGINEERING TECHNOLOGY

» IET 408 Lean Management and Six Sigma 3 Credits

This course reviews the tools used to improve business performance, such as increasing process efficiency and reducing variation and waste. The course is designed around the rigorous approach known as DMAIC and covers a wide variety of problem-solving strategies based on statistics, optimization, and project management. The course elegantly integrates Six Sigma methodologies with lean enterprise principles, such as Kaizen, poka-yoke, and pull-push systems. The topics covered in this course are used both in manufacturing and service industry including hospitals, banks, and retailers. At the end of this course, students will be equipped to help organizations achieve their operational excellence.

Prerequisite(s): Junior or senior status. Mode: Hybrid

Meeting time(s): TR 10:00 AM-11:40 AM

MECHANICAL ENGINEERING TECHNOLOGY

» MCT 215 Statics 3 Credits

Study of forces on bodies at rest. Vectors, force systems, components, reactions, resultants, free body diagrams, equilibrium, centroids, and moments of inertia. *Prerequisite(s): SET 150. Corequisites: MTH 168. Mode: Hybrid Meeting time(s): TR 12:00 PM-1:40 PM*

» MCT 313 Industrial Mechanisms 3 Credits

Design and analysis of linkages and cams. Graphical solutions to kinematics problems including the concepts of instantaneous motion and relative motion. Development and analysis of motion diagrams. Study of geometric features of gears and gear transmission systems. *Prerequisite(s): MCT 110L, MCT 220; MTH 137 or MTH 168. Mode: Hybrid*

Meeting time(s): TR 2:00 PM-3:40 PM

PRE-MEDICINE

» MED 401 Global Regulatory and Legal Framework of Quality in Industry and Business 3 Credits

This course will provide an overview of regulations for the pharmaceutical, medical device, biotech, animal health, and consumer goods industries. Students will be introduced to fundamental concepts in the regulations related to clinical trial development, management, ethics, data integrity, data security, privacy, change control and validation. *Mode: Asynchronous*



Tentative Course Listing and Descriptions

MECHANICAL ENGINEERING

» MEE 104L Solid Modeling in Design 2 Credits

Introduction to engineering graphics and visualization. Instruction on sketching methods and proper techniques for parametric, solid modeling using computer aided design (CAD) software. Students will interpret and develop technical drawings that are used to communicate mechanical designs.

Mode: Hybrid Meeting time(s): TR 5:00 PM-6:30 PM

» MEE 114L Introduction to Programming 1 Credit

Introduction to applications and use of computer programs for mechanical engineers with concentration on spreadsheets, plotting, data manipulation and basic programming. *Mode: Hybrid*

Meeting time(s): W 2:00 PM-4:00 PM

» MEE 205 Mechatronics 3 Credits

This course provides an introduction to the cross-disciplinary topic of Mechatronics, a blend of Mechanical, Electrical, and Computer Engineering. Topics include principles of linear circuit analysis and problem solving techniques (both analytical and computer solutions) associated with analog circuits containing both passive and active components. Students are introduced to DC, AC, and transient circuit analyses. In addition to these fundamentals, the "mechatronics emphasis" involves practical experience in creating robotic and automated systems. Related to its Integrative component within CAP, students discuss and reflect on the social impact such technology has within their lives, their future profession, and the world as a whole. Ultimately, students scaffold their knowledge through a series of microprocessor programming modules which culminate in student teams designing, fabricating, and programming autonomous robotic vehicles for a class-wide competition.

Prerequisite(s): MTH 168. Mode: Hybrid Meeting time(s): TR 12:20 PM-1:50 PM

» MEE 214 Programming for Mechanical Engineers 3 Credits

Detailed introduction to solving engineering problems through computational methods. Fundamentals of programming in MATLAB involving arrays, functions, decision making, loops, and graphing. Emphasis on numerical methods that are applied in engineering. *Prerequisite(s): MTH 169. Mode: Hybrid*

Meeting time(s): MW 10:40 AM-12:10 PM



Tentative Course Listing and Descriptions

» MEE 308 Fluid Mechanics 3 Credits

An introductory course in fluid mechanics. Fundamental concepts including continuity, momentum, and energy relations. Control volume analysis and differential formulations. Internal and external flows in laminar and turbulent regimes. One-dimensional compressible flows. *Prerequisite(s): EGR 202. Corequisite(s): MTH 219.*

Mode: Hybrid Meeting time(s): TWR 10:40 AM-12:10 PM

» MEE 431L Multidisciplinary Design I 2 Credits

Application of engineering fundamentals to sponsored multidisciplinary-team design projects. In a combination of lecture and lab experiences, students learn the product realization process and project management. Product realization topics include idea generation, proposal development, design specifications, conceptualization and decision analysis. Project management topics include cost estimation and intellectual property management. Design projects progress to the proof of concept and prototype development stages.

Prerequisite(s): MEE Students: EGM 303 and MEE 321, ECE students: ECE 304 or ECE 314. Corequisite(s): MEE 344 or MEE 478 or RCL 578 or MEE 401 or MEE 409. Mode: Hybrid

Meeting time(s): MWF 8:00 AM-10:30 AM

» MEE 432L Multidisciplinary Design II 2 Credits

One hour lecture and five hours of lab per week. Detailed evaluation of the Product Realization Process focusing on conceptual design, embodiment design, final design and prototyping is taught. Analysis of the design criteria for safety, ergonomics, environment, cost and sociological impact is covered. Periodic oral and written status reports are required. The course culminates in a comprehensive written report and oral presentation.

Prerequisite(s): MEE majors: MEE 431L; CPE majors: ECE 431L and (ECE 334 or CPS 444); ELE majors: ECE 431L and (ECE 401 or ECE 415).

Mode: Hybrid

Meeting time(s): MWF 8:00 AM-10:30 AM

» MEE 464 Sustainable Energy Systems 3 Credits

Survey of conventional fossil-fuel and renewable energy with an emphasis on system integration. Basic concepts of climate physics will be addressed along with estimates of fossil resources. *Corequisite(s): MEE 410. Mode: Hybrid*

Meeting time(s): TR 4:00 PM-5:40 PM



Tentative Course Listing and Descriptions

MANAGEMENT

» MGT 201 Legal Environment of Business 3 Credits

Survey of the legal environment in which businesses operates. Includes overview of legal system and judicial processes and coverage of constitutional principles for U.S. legal system, ways to resolve legal disputes, forms of business organization, legal issues relevant to employment, legal responsibility of businesses to clients and customers, and liability issues. *Prerequisite(s): Sophomore standing. Mode: Hybrid*

» MGT 490 Managing the Enterprise 3 Credits

Course focuses on creating understanding of how concepts and analytical tools learned in other business courses are integrated in practice to create a coherent whole. Students learn how general and top managers gather and use information to influence organizational mission, goals, and strategies. Course typically relies heavily on cases and business simulation. *Prerequisite(s): DSC 211; FIN 301 or 300; MGT 301 or 300; MIS 301 or 300; MKT 301 or 300; OPS 301 or 300; senior standing; business majors only. Mode: Hybrid*

MARKETING

» MKT 350 Digital Marketing 3 Credits

Comprehensive study of the internet as a marketing channel and as an economic and social phenomenon. Emphasis is on role of internet in firm's overall marketing efforts, especially marketing mix, target markets, and external environment; principles of e-commerce; and application of course knowledge in a managerial and decision-making context. *Prerequisite(s): MKT 300 or MKT 301. Mode: Hybrid*

MUSIC

» MUS 205 Music, Technology and Culture 3 Credits

Through interactive and creative activities, students will explore the intersections of music technology and culture historically and in our current rapidly changing media and musical communities at UD and beyond. The course will also consider the ways technology has altered our approach and access to music making and listening. *Mode: Asynchronous*

PHILOSOPHY

» PHL 103 Introduction to Philosophy 3 Credits

Introduction to philosophical reflection and study of some central philosophical questions in the Western intellectual tradition, including questions of ethics, human knowledge, and metaphysics. Readings from major figures in the history of philosophy such as Plato, Aristotle, Augustine, Aquinas, Descartes, Hume, and Kant. *Mode: Asynchronous*



Tentative Course Listing and Descriptions

» PHL 306 Philosophy of Knowledge 3 Credits

Various criteria, origins, and definitions of knowledge proposed by common sense, science, philosophy, and mysticism; questions of evidence, consistency, and validity pertaining to the problem of truth and belief.

Prerequisite(s): (ASI 110, ASI 120) or PHL 103.

» PHL 317 Ethics of War 3 Credits

Study of the ethics of war and the Just War Tradition. Students will be expected to apply the principles of this tradition to ethical issues such as the ethics of torture and the ethics of humanitarian intervention.

Prerequisite(s): PHL 103 or ASI 120 or equivalent. Mode: Asynchronous

» PHL 319 Information Ethics 3 Credits

Examination of ethical principles, codes, cases, incidents, and issues in the creation, use and distribution of information in and through various media. This includes issues in the ethical design, implementation, and use of computerized information systems. *Prerequisite(s): PHL 103 or ASI 120 or equivalent. Mode: Asynchronous*

» PHL 355 Asian Philosophy 3 Credits

Introduction to Asian thought through the study of philosophers, texts, philosophical schools, and concepts that have their origins in Asia. Comparisons of various Asian philosophies and religions with each other as well as with Western traditions. *Prerequisite(s): PHL 103 or ASI 120 or equivalent.*

» PHL 375 Ethical Theory 3 Credits

An examination of the significant ethical theories offered by historically significant philosophers along with some contemporary critiques of these theories. The theories examined will include virtue, deontological, and utilitarian approaches. *Prerequisite(s): PHL 103 or ASI 120 or equivalent.*

RELIGIOUS STUDIES

» REL 103 Introduction to Religious and Theological Studies 3 Credits

This course introduces students to two academic disciplines: the study of religions as historical and embodied realities, and theology as faith seeking understanding. By learning about these two disciplines, students will gain a critical self-awareness of the ways in which the modern context shapes their engagement with religion. The course emphasizes learning how to read Scripture and other primary religious sources, and to learning how the Catholic intellectual tradition addresses the question of God, the meaning of human life, and the significance of human diversity.



Tentative Course Listing and Descriptions

INTEGRATED NATURAL SCIENCE

» SCI 190 The Physical Universe 3 Credits

Conceptual survey of the fundamental laws of physics that govern the physical universe with the themes of evolution, energy and environment as unifying threads through the course. Topics include the laws of motion, gravitation, thermodynamics, electromagnetism, waves, sound, light and modern physics.

Mode: Asynchronous

» SCI 190L The Physical Universe Laboratory 1 Credit

Laboratory to accompany SCI 190. Students perform both hands-on and computer interfaced inquiry-based experiments which are designed to augment the concepts in SCI 190 and illustrate the scientific thought process. The Excel spreadsheet is used in data collection and analysis. One two-hour laboratory per week.

Prerequisite(s): SCI 190 (SCI 190 may be taken as a corequisite).