

UNDERGRADUATE COURSE DESCRIPTIONS

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ACCOUNTING (ACCT)

ACCT 201

Principles of financial accounting
(3 - 4)

An introduction to Financial Accounting. Topics include: the accounting cycle; creating and interpreting financial statements; accounting for cash, receivables, inventory, long term, assets, and accounting for corporations, and interpretation of financial ratios. Prerequisite: MATH 103 or 110 or 201.

ACCT 205

Managerial Accounting
(3)

An introduction to the role of accounting in the managerial process of planning, controlling and decision-making. Topics include: cost concepts and classifications, job-order costing, process costing, variable costing, activity-based costing, cost-volume-profit analysis and budgeting. Prerequisite: MATH 103 or 110 or 201 and Concurrent: ACCT 201.

ACCT 301 *Intermediate Accounting I*

(3)

This course begins in-depth analysis of financial accounting. Topics include accounting standards and theory, the balance sheet, statement of cash flows, comprehensive income, revenue recognition, profitability analysis, receivables and investment valuation; inventory and departures from historic cost, operational assets and impairment. Prerequisite: ACCT 201.

ACCT 305

Intermediate Accounting II (3)

This course builds on applications, standards, and practices taught in ACCT 301, providing in-depth analysis of financial accounting, advancing to consider liabilities and owners' equity. Topics include accounting for current liabilities, contingencies, bonds, long-term notes, pensions, leases, income tax and shareholders' equity, embracing contributed capital, retained earnings, and dividends and earnings per share. Concurrent: ACCT 301.

ACCT 334

Individual & Corporate Tax
(3)

An analysis of international taxation theory and the application of tax theory for domestic and international activity in Kuwait. Prerequisite: ACCT 201.

ACCT 365*Financial Statement Analysis**(3)*

This course is designed to equip the student with knowledge and skills of how to use financial statements in a variety of firm valuation contexts in the capital market. The student learns different valuation tools for evaluating a firm's accounting and financial performance, the concept of earnings quality, and other valuation related issues. Prerequisite: ACCT 301 and FINC 332.

ACCT 369*Short Course**(1 - 3)*

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

ACCT 388*Independent Study**(1 - 3)*

A research and writing project to be determined in consultation with the Instructor. Can be repeated for credit with a different topic. Junior standing. Prerequisite: ACCT 201.

ACCT 389*Special Topics**(3)*

Can be repeated for credit with a different topic. Permission of instructor.

ACCT 401*Advanced Managerial Accounting**(3)*

Issues of cost management and its use to achieve organizational goals. Relationship of performance measurement, compensation, authority to organizational structure, organizational development and success. Prerequisite: ACCT 205.

ACCT 405*Advanced Financial Accounting**(3)*

This course builds on disciplinary knowledge and techniques provided in earlier Financial Accounting courses to develop higher order cognitive skills needed to address complex issues emerging in accounting. Topics include: Accounting Theory, Concepts and Standards, Standard Setting Process, Emerging Issues, Accounting Institutions, Accounting Regulation, and Ethical Issues in Accounting. Prerequisite: ACCT 301.

ACCT 413*Accounting Capstone: Auditing**(3)*

Accounting and auditing principles and standards, reporting methods, controls and test of controls, function of the independent auditor. Senior Standing. Prerequisite: ACCT 301.

ACCT 421*International Financial Reporting Standards*

(3)

An overview of International Financial Reporting Standards and the accounting standards generally accepted in Kuwait. Students are introduced to the financial reporting requirements of global capital markets. Prerequisite: ACCT 201.

ACCT 470*Internship in Accounting*

(1 - 3)

An internship experience with the requirement that the student write a report summarizing what the internship job added to his or her knowledge of accounting and related fields. Students are limited to a maximum of 3 internship credit hours for any major and 6 credits overall. Permission of instructor and senior standing.

AMERICAN STUDIES (AMST)

AMST 121*US History since 1900*

(3) [S]

Examination of the major political and economic themes in the US from 1900 to the present. Topics will include the world wars, prohibition and the Depression, the rise of the US as a global power, the Cold War, and the Gulf War.

AMST 220*Early American Political History*

(3) [S]

The course traces the political history of America from the period of European colonial settlement through the Gilded Age. Topics include colonialism, independence, the US Constitution, Jacksonian Democracy, the Civil War and Reconstruction, westward expansion, and modernization. Prerequisite: ENGL 101.

AMST 333*American Culture*

(3) [S]

An interdisciplinary study of America's view of itself: contemporary society including race, ethnicity, politics, literature and film; issues of violence, discrimination, racism, and attitudes that shape contemporary American culture. Sophomore standing or permission of instructor.

AMST 369*Short Course*

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

AMST 388

Independent Study

(1 - 3)

A research and writing project to be determined in consultation with the instructor. Can be repeated for credit with a different topic. Senior standing and permission of instructor.

AMST 389

Special Topics

(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor. Prerequisite: any 100 or 200-level HIST course, or AMST course. Pre-requisite: IR 101.

AMST 402

American Social History in the 20th Century

(3)

The economic boom and the conservative/traditional 50s; the Civil Rights movement; the anti-war movement; the feminist movement; the counter-culture movement; the student movement; the response of the political right; the information revolution; transformation of the culture and the political landscape. Junior standing. Prerequisite: any 100 or 200-level HIST course, or AMST course.

AMST 409

American Foreign Policy since WWII

(3)

Investigation of American foreign policy since World War II: the process of decision-making, the role of the Presidency, the State Department and Pentagon bureaucracy, the Congress, and Public Opinion. Focuses on the Cold War and the Middle East. Junior standing or permission of instructor. Prerequisite: any 100 or 200-level HIST or AMST course.

ARABIC LANGUAGE & LITERATURE (ARAB)

ARAB 101

Arabic as a Second Language I

(3) [A]

This course introduces the student to the Arabic alphabet, the script of modern written Arabic, and develops the student's knowledge in the four language skill areas. The materials are designed in the effective modern approach to foreign language teaching. This course is taught in the Arabic language. Prerequisite: Arabic placement exam score less than or equal to 4.

ARAB 114

Arabic Basic Language Skills

(3) [A]

This course introduces students to basic Arabic language skills: listening, speaking, reading, and writing. This course is taught in the Arabic language. Students may not enroll and will not receive credit for a language-learning course taken below the level of the language-learning course into which they were tested. Prerequisite: Arabic placement exam score between 5 and 14.

ARAB 150

Human Development in the Arab World

(3) [H], [K]

This course examines Human Development in the Arab World using the Reports of the UN Development Program and The Arab Fund for Economic and Social Development, which were released in 2003/2004. It provides students with detailed description and critical evaluation of the economic, demographic, social, and political conditions in the Arab countries. This course is taught in the English language. Prerequisite: ENGL 101.

ARAB 201

Arabic for Non-Native Speakers I

(3) [A]

This course extends ARAB 101 and is designed to enhance further the non-native speaker's knowledge and proficiency of Arabic. This course is taught in the Arabic language. Students may not enroll and will not receive credit for a language-learning course taken below the level of the language-learning course into which they were tested. Prerequisite: ARAB 101.

ARAB 205

Survey of Arab-Islamic Civilization

(3) [H], [K]

The course acquaints students with the past influence and present importance of Arab-Islamic civilization. It investigates how Islam has shaped many different cultures in Asia, Europe, and Africa over the last 1400 years. The religious, political, and cultural values associated with Arab-Islamic culture will be discussed. Furthermore, students will be familiarized with the historical forces that shaped the past, and what these forces mean for the world today. This course is taught in the English language. This course satisfies the General Education Requirement for Arab Culture. Prerequisite: ENGL 101.

ARAB 215

Arabic Composition I

(3) [A]

This course introduces native speakers of Arabic—with English curricula education—to intermediate reading and writing skills in

Arabic. Using various literary and non-literary styles, students will be exposed to functional grammar, sentence structure, and paragraph writing. This course is taught in the Arabic language. Students may not enroll and will not receive credit for a language-learning course taken below the level of the language-learning course into which they were tested. Prerequisite: Arabic placement exam score 15 or higher.

ARAB 220

Readings in Arabic Heritage

(3) [A], [H]

This course surveys selections of writings from classical Arabic works. The main aim of the selections is to reflect the intellectual, literary, and cultural developments of the Arabs from pre-Islamic times up to the present day. The course is thematically organized to allow students the opportunity to study the continuity or changes of certain values and beliefs in Arabic culture. This course is taught in the Arabic language. Students may not enroll and will not receive credit for a language-learning course taken below the level of the language-learning course into which they were tested. Prerequisite: Arabic placement exam score 25 or higher.

ARAB 221

Creative Writing

(3) [H]

This course introduces students to the skills of writing the genre of the short story and novel. This course is taught in the Arabic language.

ARAB 301

Arabic as a Second Language III

(3) [A]

This course builds on the earlier Arabic courses for non-native speakers. It uses more advanced materials to strengthen the reading, writing, listening, and speaking abilities of the student. This course is taught in the Arabic language. Students may not enroll and will not receive credit for a language-learning course taken below the level of the language-learning course into which they were tested.

Prerequisite: ARAB 201.

ARAB 303

Literature of the Arabian Gulf

(3) [H], [K]

This course looks at the contribution of literary figures from the Arabian Gulf, especially those of Kuwait, to Arabic literature in general. This course is taught in the Arabic language. This course satisfies the general education requirement for arabic culture. Sophomore standing or permission of instructor.

ARAB 304

Arabic Drama

(3) [H], [K]

The course looks at the emergence of Arabic drama in the 19th century until the present day, and assesses prototype drama forms of the medieval period. Through a study of selected plays by prominent authors, a picture will emerge as the influence of Arabic drama on Arabic literature. A selection of video recordings will also accompany the course. This course is taught in the Arabic language. This course satisfies the General Education Requirement for Arabic Culture. Sophomore standing or permission of instructor.

ARAB 308

Arab Women in History

(3) [H]

An exploration of the diversity of voices of Arab women, both past and present, from a multidisciplinary perspective. Topics include women as revolutionaries and nationalists, male-female relations, women in the workforce, female circumcision, family structures, and lifestyles. This course is taught in the Arabic language. Sophomore standing or permission of instructor.

ARAB 310

Classical Arabic Prose

(3) [H], [K]

This course surveys Classical Arabic prose. The main aim of the selections is to introduce a few of the outstanding literary achievements of the Arabs in prose from the 8th to the 14th centuries. Readings will include works by Ibn al-Muqaffa', al-Jahiz, Ikhwan al-Safa', Badi' al-Zaman al-Hamadhani, and others. This course is taught in the Arabic language. Sophomore standing. Prerequisite: ARAB 220.

ARAB 312*Modern Arabic Literature*

(3) [H], [K]

This course surveys modern and postmodern Arabic creative writing: novel, short story, drama, poetry, and literary criticism. Themes in this course include, but are not limited to, love, death, exile, social pressures, and political concerns. The course demonstrates the nexus between Arabic literary production and contemporary challenges of Arab life. This course is taught in the Arabic language.

This course satisfies the General Education Requirement for Arab Culture. Sophomore standing or permission of instructor. Prerequisite: ARAB 220.

ARAB 313*Arab Women and Literature*

(3) [H], [K]

A survey of the history of Arab women's literature, from the medieval period to the present day. Special attention is paid to the questions of literary tradition. This course is taught in the Arabic language. Sophomore standing or permission of instructor.

ARAB 314*Classical Arabic Poetry*

(3) [H], [K]

This course focuses on selected masterpieces of classical Arabic poetry. Individual works are studied with an aim to understanding the historical context of their composition and to appreciating their literary value. This course is taught in the Arabic language. This course satisfies the General Education requirement for Arab culture. Sophomore standing or permission of instructor. Prerequisite: ARAB 220.

ARAB 315*Literature of Al-Andalus*

(3) [H], [K]

A survey of poetry and prose from the nearly eight centuries of Arab-Islamic civilization in Al-Andalus. This course is taught in the Arabic language. This course satisfies the General Education Requirement for Arab Culture. Sophomore standing or permission of instructor. Prerequisite: ARAB 220.

ARAB 316*Literature in the Abbasid Era*

(3) [H], [K]

This course involves the study of literature in the Abbasid Era, both early and later ages up to the fall of Baghdad in 1258. Through a literary analysis of poetry and prose of the Abbasid period, some of the historical characteristics of the period, as well as the development of music, cuisine, and the arts will be highlighted. This course is taught in the Arabic language. Sophomore standing. Prerequisite: ARAB 220.

ARAB 318*Modern Arabic Novel*

(3) [H], [K]

This course focuses on the development of the Arabic novel, and surveys the main factors that led to the rise of the novel. Students will analyze a number of works by prominent Arab novelists: Naguib Mahfouz, Jamal Ghitani, Tayyib Saleh, Ghada Samman, and Ghassan Kanafani. Exile, post-colonial-

ism, feminine discourse will be among the themes discussed. The readings will be supplemented with critical theory by leading Arab literary critics. This course is taught in the Arabic language. Sophomore standing. Prerequisite: ARAB 220.

ARAB 369

Short Course
(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

ARAB 388

Independent Study
(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor.

ARAB 389

Special Topics
(3)

Can be repeated for credit with a different topic. Permission of instructor.

ART (ART)

ART 100

Introduction to Creativity
(3) [H]

This course introduces students to a variety of art media including drawing, painting, collage, and sculpture through studio exercises and/or lectures. It focuses on the mental processes involved in the generation of ideas or concepts necessary to develop a student's ability to imagine and construct, that is, to create.

ART 101

Art History I
(3) [H]

A chronological survey highlighting the developments in Western Art from the prehistoric to the early Renaissance.

ART 102

Art History II
(3) [H]

A chronological survey highlighting the developments in Western Art from the Renaissance to the late 20th C. Prerequisite: ART 101.

ART 103

Arab and Islamic Art
(3) [H], [K]

A critical survey of the chronological development of Islamic Art. This course satisfies the General Education Requirement for Arab Culture.

ART 104*Art Appreciation*

(3) [H]

This is an introductory-level class that emphasizes understanding and aesthetic pleasure in the visual arts through the study of styles, materials, terminology, and techniques of the art world, as well as major artists and art movements.

ART 120*2-D Design*

(3) [H]

This is an introductory studio course investigating the basic elements and principles of the visual arts in two-dimensional media and form.

ART 121*Drawing I*

(3) [H]

A studio course that introduces drawing materials and methods. Students gain an understanding of the techniques of drawing, including perceptions, shading, line weight, and representation drawing.

ART 122*3-D Design I*

(3) [H]

This course is a studio course investigating the basic elements and principles of the visual arts in three dimensional media and form.

ART 201*Art and Society*

(3) [H]

Focus on significant artists and artworks in the context of historical periods and requirements of the societies.

ART 203*Arabic and Islamic Calligraphy*

(3) [H], [K]

This course examines the development and various Arab and Islamic scripts from ancient through modern times.

ART 204*Art of Africa, Oceania, and the Americas*

(3)

An introduction to the visual culture of select regions of Africa, Oceania, and the Americas from ancient through modern times.

ART 205

Contemporary Art

(3) [H]

A study and discussion of current art practices around the world.

ART 208

Asian Art

(3) [H]

This comparative study focuses on the material and visual cultures of Asia from ancient to modern times. Topics will include architecture, sculpture, painting and functional art from regions such as India, Southeast Asia, China, Japan and Korea.

ART 211

Cities as Art

(3) [H]

An examination of various historic cities, with a discussion of their history and evolution, important artworks, landmarks, and buildings.

ART 221

Drawing II

(3) [H]

Drawing II is the second of two fundamental drawing courses. It continues the processes and concepts introduced in Drawing I and introduces interpretive approaches to drawing with a growing emphasis on creativity and content. Prerequisite: ART 121.

ART 240

Water-Based Painting I

(3) [H]

This course provides a foundation in the practices and materials associated with water-based painting. Working from direct observation as well as expressive and conceptual approaches, students develop an understanding of formal concerns as well as paint manipulation to produce strong representational and/or non-representational painting. Prerequisite: ART 121.

ART 241

Oil Painting I

(3) [H]

This course provides foundation in the practices and materials associated with painting, and prepares students to work in oil-based media. Working from direct observation, students develop an understanding of formal concerns as well as paint manipulation to produce strong representational and/or non-representational paintings. Prerequisite: ART 121.

ART 340

Water-Based Painting II

(3) [H]

This course provides a continuing investigation of the materials, processes, and techniques of water-based painting. Students will develop an expanded vocabulary of paint language and increased skill in rendering volume, space, light, color, and movement in their work based on observation as well as expressive and conceptual approaches. Prerequisite: ART 240.

ART 341

Oil Painting II

(3) [H]

This course provides a continuing investigation of the materials, processes, and techniques of oil painting. Students will develop an expanded vocabulary of paint language and increased skill in rendering volume, space, light, color, and movement in their work based on observation. Prerequisite: ART 241.

ART 369

Short Course

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

ART 388

Independent Study

(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor.

ART 389

Special Topics

(3)

Can be repeated for credit with a different topic. Permission of instructor or Junior standing.

BUSINESS ETHICS AND LAW (BEAL)

BEAL 369

Short Course

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

BEAL 388

Independent Study

(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor. Prerequisite: MGMT 304.

BEAL 389

Special Topics

(3)

Can be repeated for credit with a different topic. Permission of instructor.

BEAL 401

Legal & Ethical Issues in Business

(3)

This course examines the impact of legal systems on business. Topics Include: Constitutional law,

Contract law principles, Torts, Intellectual Property, legal forms of business entities, business regulation and Negotiable Instruments. Much emphasis will be on Kuwait Law, the Business setting, and ethical decision-making. Senior Standing.

BEAL 403

Corporate Governance & Ethics

(3)

This course seeks to generate a critical understanding of corporate governance, including government regulatory compliance, the exploitation of legal and regulatory loopholes, business ethics, social auditing, and corporate social responsibility, and the role of these practices in the profitability and sustainability of business. Senior Standing.

BEAL 407

International Business Law

(3)

A study of international investment law, the law of international trade, currency exchange, and World Trade Organization regulations. Prerequisite: FINC 341.

BIOLOGY (BIOL)

BIOL 101

General Biology I

(3) [P]

Part one of a two-semester course. An in-depth introduction to scientific method, and exploration of study of life from atoms to cellular levels of organization. Emphasis on the cell structure, function, energy and metabolism, genes, evolution and speciation, the origins of life, bacteria, plants, and animals. Concurrent: BIOL 101L.

BIOL 101L

General Biology I Laboratory

(1) [P]

A laboratory component for the General Biology I course. Concurrent: BIOL 101.

BIOL

General Biology II

(3) [P]

102

Part two of a two-semester course. Emphasis on the organismal and higher levels of biological organization. The plant and animal diversity, plant and animal form and function, body systems, animal behavior, ecology and conservation of biology. A required laboratory is part of the course. Prerequisite: BIOL 101 and BIOL 101L Concurrent: BIOL 102L.

BIOL 102L

General Biology II Laboratory

(1) [P]

A laboratory component for the General Biology II course. Prerequisites: BIOL 101 and BIOL 101L. Concurrent: BIOL 102.

BIOL 103

Biology in Everyday Life

(3) [P]

An exploration of biological concepts related to everyday life. The student is introduced to the basic principles that govern the biological world. Topics include cell structure and function, energy and metabolism, evolution and diversity of life, plant structure and function, animal anatomy and physiology, and genetics. A required laboratory is part of the course. Concurrent: BIOL 103L.

BIOL 103L

Biology in Everyday Life Laboratory

(1) [P]

A laboratory component for the Biology in Everyday Life course. Concurrent: BIOL 103.

BIOL 105

Environmental Science

(3) [P]

This introductory course addresses the relationship between human activity and the environment. Emphasis on ecosystems, energy flow and nutrient cycling, population dynamics, resource use and conservation, pollution, management and eradication of pollution, ethics and the environment.

BIOL 200

Structure and Function of the Human Body

(3) [P]

This introductory course addresses the relationship between human activity and the environment. Emphasis on ecosystems, energy flow and nutrient cycling, population dynamics, resource use and conservation, pollution, management and eradication of pollution, ethics and the environment.

BIOL 220

Ecology

(3) [P]

An examination of the interactions of living organisms with their physical and biological environments. Special attention will be given to population dynamics and the interactions among organisms that determine the structure, function, evolutionary development of biological communities, and the ecological role played by man. Prerequisite: BIOL 101 or BIOL 103 or BIOL 105.

BIOL 317

Introduction to Neurobiology

(3) [P]

A general introduction to basic anatomy and physiology of the brain. Specific topics include neuronal function, synaptic transmission, sensory processing, movement, sleep and wakefulness, hunger, thirst, caloric and body fluid homeostasis, recovery of function after brain damage, and various neurological and psychiatric disorders. Sophomore standing or permission of instructor. Prerequisite: BIOL 101 or BIOL 103.

BIOL 369

Short Course

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

BIOL 388

Independent Study
(1 - 4)

Can be repeated for credit with a different topic. Permission of instructor.

BIOL 389

Special Topics
(3)

Can be repeated for credit with a different topic. Permission of instructor.

INTERNSHIP FREE ELECTIVE BUEC (BUEL)

BUEL 473

Internship for Free Elective Business
(1 - 3)

This is a supervised experience designed to enhance intellectual development through application of knowledge in an occupation. Requirements include weekly journals, and final report explaining what the internship added to the student's knowledge in an approved discipline. Senior standing and permission of instructor.

BUSINESS (BUS)

BUS 100

Introduction to Business
(3)

Business 100 provides an overview of business and the role business plays in economic, social, and political environments. It will also provide exposure to the functional areas of business such as management, operations, marketing, and finance. There will be opportunities to discuss current events in business as they apply to the topics being covered.

BUS 209

Quantitative Methods for Business
(3)

Introduction to mathematical and statistical techniques, descriptive data analysis, rate of change, compounding and discounting and use of software applications to analyze data needed for decision-making. Topics include: exploratory data analysis, probability distributions, descriptive statistics, hypothesis testing, analysis of variance, regressions, graphical analysis, linear programming, and time value of money. Prerequisite: MATH 103 or 110 or 201. Concurrent: ENGL 102.

BUS 210

Research Methods for Business
(3)

This course explains and describes the different aspects and stages of conducting business research. It presents the various analytical frameworks and methodological tools used for this purpose with emphasis on empirical approach, data collection, and analysis. Prerequisite: MGMT 201 and STAT 201.

BUS 321

International Business

(3)

This course uses a managerial approach to integrate economic, political, legal, cultural, and technology issues to characterize environments affecting international business. Topics include: country differences, foreign investment, regional economic integration, foreign exchange, multinational formation and global business organization, operations, CSR, entry modes and strategies.

Prerequisite: ACCT 205, ECON 201 and FINC 232.

BUS 389

Special Topics in Business and Economics

(3)

Can be repeated for credit with a different topic. Permission of Instructor.

BUS 489

Interdisciplinary Honors Seminar

(3)

Can be repeated for credit with a different topic. Permission of Instructor.

BUS 490

Business Administration Capstone

(3)

This capstone integrates subject matter from the BBA Core. It uses case studies, projects, and simulation to provide students experience in dealing with the sorts of challenges and decisions with local, regional, and global business face in a dynamic and competitive environment. Students will practice analytical and decision skills in the context of the business as a whole, not simply focusing on one particular business function at a time. Senior Standing.

CHEMISTRY (CHEM)

CHEM 101

General Chemistry I

(3) [P]

This introductory course covers the fundamental chemical principles, concepts, and laws. Topics include chemical reactions, stoichiometry, gas laws, kinetic theory of gases, thermochemistry, atomic structure and periodicity, the Bohr model, Lewis structures, ionic and covalent bonding, the solid state and crystallography, the liquid state and phase diagrams. Concurrent: CHEM 101L and MATH 201.

CHEM 101L

General Chemistry Laboratory

(1)[P]

A laboratory component for the General Chemistry I course. Concurrent: CHEM 101

CHEM 102

General Chemistry II

(3) [P]

Continuation of General Chemistry I. Covers properties of solutions, oxidation-reduction reactions,

colligative and chemical properties, acid base and complex ion equilibria, laws of thermodynamics, enthalpy and free energy, electrochemistry, representative elements, transition metals, and nuclear chemistry. Concurrent: CHEM 102L. Prerequisite: CHEM 101 and CHEM 101L.

CHEM 102L

General Chemistry II Laboratory

(1) [P]

A laboratory component for General Chemistry II course. Concurrent: CHEM 102.

CHEM 103

Chemistry in Everyday Life

(3) [P]

An introduction to the principles of chemistry and its role in our daily life. A number of topics will be addressed such as nuclear chemistry and the atomic bomb, acids and bases, petroleum, chemistry in the kitchen, food additives and coloring, perfumes, soaps and detergents, toxins and poisons, medicine and drugs, forensic chemistry and DNA fingerprinting, global warming, acid rain, air and water pollution. A required laboratory is part of the course. Concurrent: CHEM 103L

CHEM 103L

Chemistry in Everyday Life Laboratory

(1) [P]

A laboratory component for the Chemistry in Everyday Life course. Concurrent: CHEM 103

CHEM 104

Living in a Chemical World

(3) [P]

A one semester survey of modern concepts of the structure and properties of the material universe and their inter conversions for students who do not need a more rigorous foundation in chemistry for degree completion. As the chemistry is introduced, related ecological, geopolitical, and socio-economic concerns are discussed. Introductory topics in chemistry are covered from a largely conceptual point of view. Atomic theory, the gas laws, covalent/ionic bonding, hydrogen bonding, organic chemistry, nuclear chemistry, oxidation/reduction reactions, dimensional analysis, isotopes, and water properties are all introduced in this course. This course meets a three credit hour science requirement for non-science majors. Prerequisite: ENGL 101.

CHEM 105

The Forensic Chemistry of CSI

(3) [P]

A one course designed for students who would like to learn about forensic chemistry and the basic science needed to understand it. Chemical concepts, on the level of an introductory chemistry course and their applications to forensic science will be explored in detail. Topics will include the forensic analysis of drugs, fibers, glass, fingerprints, arson, questioned documents and other types of physical evidence. Other topics will include how forensic science is portrayed in novels, movies, computer games and TV and the methods used in forensic evidence collection at a crime scene. This course meets a three-credit hour science requirement for non-science majors. Pre-requisite: ENGL 100.

CHEM 305*Environmental Chemistry**(3) [P]*

In this course students will use fundamental principles of chemistry to gain an understanding of the environment and to acquire an understanding of the pollutants in the environment. Environmental issues that will be discussed include anthropogenic climate change, air pollution, stratospheric ozone depletion, pollution of water sources, and acid rain. Prerequisite: CHEM 103 or CHEM 101.

CHEM 388*Independent Study**(1 - 4)*

Can be repeated for credit with a different topic. Permission of instructor.

COMMUNICATION STUDIES (COMM)

COMM 101*Introduction to Mass Communication**(3) [H]*

Examines the issues and concepts involved in the initial study of the mass media, (i.e., television, radio, newspapers, magazines and interactive outlets) and how they impact the individual and society.

COMM 110*Introduction to Digital Media Design**(3)*

This course introduces students to fundamental principles and applications of design, emphasizing critical and cultural awareness of design issues and developing of technical skills. The notion of creative problem-solving is particularly emphasized. Students develop expertise in major industry standard software packages. This course lays the foundation for further study of design. A lab fee may be required. [Cross-listed with GDES 110]

COMM 111*Images in Media**(3) [H]*

The power of images in media is examined through milestones including those in photography, film, video, and interactive media.

COMM 206*Mass Media Writing**(3)*

This course is intended to provide students with fundamental writing techniques used in the media industry. Particular attention will be paid to the development of objective writing skills used across print, broadcast and online platforms. Writing methodologies to produce advertising copy and press releases will also be studied.

COMM 208*Film Production I*

(3)

Introduces students to basics of cinematic storytelling through narrative genres and documentaries. Examines the basics of script-writing, directing, cinematography, and editing. Develops skills in all areas of the craft, and explores both the creative and the technical aspects of production. Includes a short project. Familiarizes students with the nature of filmmaking through lectures and working experiments with traditional narrative filmmaking, documentary, and new media. [Cross-listed with GDES 208]

COMM 211*Theories and Research Methods in Communication*

(3)

This course provides an introduction to theories and to methodological approaches used in the study of mass communication. Students will apply research skills to scientifically evaluate messages, media and audiences. A variety of data collection techniques will be utilized to give students a hands-on approach in the assessment of media. The course will also examine media and its messages from a theoretical perspective. Pre-requisite: COMM 101

COMM 222*Global Media and Spaces of Identity*

(3) [S]

Anthropology of media is an essential area of study, living as we do, in a media saturated world today. The course examines new paradigms in the anthropology of visual communication in looking at how media interacts with issues such as representation, people's sense of self-identity and collective cultural identities, nationalism and transnationalism, media activism, diasporas, and social engagements with technology. The course locates the anthropological voice in media by locating it in worlds of practice and debate. [Cross-listed with SBSA 222]

COMM 230*Principles of Advertising*

(3) [H]

Provides students with an analysis of commercial advertising from a global perspective with attention to communication theory. Students will examine the structure of advertising messages, how they are adapted to specific audiences, and the social settings in which they occur. Issues of Internet advertising and e-commerce will be explored. Prerequisite: COMM 101.

COMM 240*Principles of Public Relations*

(3) [H]

Surveys the fundamentals and techniques involved in public relations operations, including the history, philosophy and ethics of the practice and functions of management, planning, research and communication. It explores the theoretical and practical applications of public relations in contemporary society. Prerequisite: COMM 101.

COMM 249*Images of Women in Media*

(3) [S]

In examining links between gender, media and modernity, this course offers examples of media representations of women's identity. Students will not simply analyze media representations of women, but learn to contextualize and critically examine them within a broader framework of the characteristics of contemporary culture in specific regions. This course will 'cross borders' of disciplines, methods and approaches, and intervene into current debates in the fields of cultural anthropology, media and cultural studies, global-

local, Eurocentrism, and multiculturalism. [Cross-listed with SBSA 249]

COMM 265*South Asian Film: A Global Perspective*

(3) [S]

The Indian film industry is the largest in the world, of which Hindi films is its most popular component. This course uses popular Hindi films as anthropological texts through which we consider broader questions about the anthropology of representations in examining roles and representations of femininity and masculinity, tradition and modernity, the importance of family and family values, the Indian diaspora, and the Hindi film phenomenon as it develops in the age of globalization. In this course, we treat "visual representation as an aspect of material culture and practice of social scientists, as well as culture researched by social scientists." [Cross-listed with SBSA 265]

COMM 309*Film Production II*

(3)

The course emphasizes the artistic film movement, the role of the American cinema, and its mark on the world. Explores the old and the new Hollywood and the relationships between aesthetics and expenses. Students will explore the preproduction, the production, and the postproduction phases of filmmaking. Sophomore standing or permission of instructor. Prerequisite: COMM 208 or GDES 208.

COMM 310*Broadcast Journalism*

(3)

Introduces students to the principles of broadcast journalism as it occurs in radio and TV. The course includes discussions of technical, ethical, and legal issues affecting broadcast news, as well as lab/studio practice in writing, editing, producing, and reporting broadcast stories. Sophomore standing.

COMM 312*News Reporting and Editing*

(3) [H]

Explores and practices the skills of a working journalist. Students will build on what is being taught in COMM 206 and apply that knowledge to this class. Emphasis will be on the reporting, writing, and the editing of features, hard news stories, broadcast copy, and writing for the Web. There will also be a focus on practical and professional-based skills such as reporting beats and newsroom procedures. Sophomore standing. Prerequisite: COMM 206.

COMM 313

Documentary Production

(3)

Introduces students to the concepts of creating a documentary. Emphasis on the practice of documentary production through creation of short or/and semester long productions. Interviewing, shooting, lighting, framing, and various narrative techniques are explored. Prerequisite: COMM 201 or COMM 208.

COMM 320

Mass Media Law

(3)

Examines the law as it affects the mass media. Discusses such areas as libel, privacy, public records, criminal pretrial publicity, freedom of information, and obscenity. Sophomore standing or permission of instructor. Prerequisite: COMM 101.

COMM 325

Mass Communication and Society

(3) [H]

Provides students with an overview of the effect of media on culture and society. The course explores how media reflect and mold culture. It examines the role the media play in creating the global village. It also examines how the audience uses and is used by various media outlets and how that use affects the perception of various cultures. Sophomore standing. Prerequisite: COMM 101.

COMM 338

Copywriting for Advertising

(3)

Explores issues, strategies, theories, and practices in writing and editing advertising messages. Teaches the technical aspects of advertising: writing advertising copy and designing effective layouts. Students use their software design skills. Sophomore standing or permission of instructor. Prerequisite: COMM 230.

COMM 350

Organizational Communication and Leadership

(3)

Teaches students the role of communication in creating a productive organizational environment in terms of interpersonal and group behavior. Reviews the theory and practice of team building, conflict resolution and problem solving and explores how communication and organizational cultures relate to each other. Sophomore standing or permission of instructor. Prerequisite: COMM 101 or MGMT 201. [Cross-listed with MGMT 350]

COMM 360

Public Relations Writing

(3)

Introduces the student to the essentials of how to prepare and present written material for use in the practice of public relations. It teaches the student the techniques needed for creating effective written communication at a standard generally expected of persons entering into the practice of public relations. Sophomore standing or permission of instructor. Prerequisite: COMM 240.

COMM 366

Popular Culture in South Asia: Film

(3) [S]

In this course, popular culture is examined- ranging from calendar art, romance fiction, magazines, photographs, music, food, fashion, films and television - as an important resource for anthropological insights into contemporary social issues and processes. Issues such as continuity and transformation of tradition, the impact of imperialism, and the 'Indianization' of English are increasingly seen as areas of debate and research. Notions of hybridity, diversity, and globalization are addressed. [Cross-listed with SBSA 366]

COMM 369

Short Course

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

COMM 370

Political Communication

(3)

This course sits at the intersection of politics and communications as it explores the use of mass media for political purposes. Leaders, throughout the 20th and 21st centuries, have used modern media to shape political behaviors. With an interdisciplinary perspective, the course studies key theoretical and conceptual issues of Mass Communication and encourage students to critically examine the use of these tools by different regimes.

COMM 373

Communications Strategies in International Relations.

(3) [H], [S]

The course explores how States, and now increasingly also regions, and cities, use public relations tools to advance their soft power, promote business, and project a particular public image. Using case studies from around the world, the course explores not only the tools used, but also evaluate their overall effectiveness.

COMM 380

Media Translation

(3)

The course teaches the various theories and practical skills and techniques of translating, subtitling and dubbing media materials, particularly television programs. The course involves education and training based on TV materials related to Media, Economics, Politics, Law, Business, Literature, Culture, Medicine and Science. Sophomore standing. [Cross-listed with TRAN 380]

COMM 388

Independent Study

(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor.

COMM 389*Special Topics**(3)*

Can be repeated for credit with a different topic. Permission of instructor.

COMM 402*PR Campaigns**(3)*

This course is designed to help students to think like a Public Relations (PR) professional, knowing the process and timing in executing a PR campaign. The importance of research is underscored through the process of identifying and understanding the target

audience which is the very basis of any PR campaign. Students will learn to develop a comprehensive “360 degrees” PR campaign for presentation to prospective clients and gain a clear in-depth insight into the profession of PR campaigning. Junior Standing.

COMM 425*International Case Studies in Public Relations**(3)*

Exposes students to major issues in public relations, with a focus on the characteristics of successful cases in PR. The class lays the theoretical foundation for comparative analysis of public relations practice around the world and then examines national and regional examples. Junior standing.

COMM 427*Media and Arab Society**(3) [H]*

A survey of the histories, roles, and institutions of media in Arab countries from printing to electronic media, from major publishing firms and publications to satellites and satellite broadcasters, including the Internet and publications in that medium. Junior standing. Prerequisite: COMM 101.

COMM 455*Advertising Media Planning**(3)*

Examines media planning, buying, and sales as performed by advertising agencies, clients, and media. Students learn how to evaluate and select advertising media for various market situations. Examines target audience, media characteristics and data sources. Junior standing or permission of instructor. Prerequisite: COMM 230.

COMM 460*Advertising Campaigns**(3)*

This class builds upon theoretical work on advertising and PR and uses a more practical, hands-on approach throughout the semester. Divided in groups, the class will comprehensively examine all aspects of developing and finally presenting an effective advertising campaign. The practical, group experience is the mainstay of this course. Junior Standing.

COMM 470

Internship in Communication

(1 - 3)

Students gain practical experience in the field. A weekly log accounting for activities required. Three credits are equivalent to 120 hours of internship. This is a pass/fail course. Junior standing and permission of instructor.

COMM 480

Junior standing and permission of instructor.

Seminar in Communication

(3)

COMPUTER ENGINEERING (CPEG)

CPEG 201L

Matlab Programming Laboratory

(1)

Matlab and its application for engineering analysis and problem solving. Command Window Operations, 2D plotting, Array Manipulation, Data Handling, Control Structures, Scripting and Function Files, 3D plotting; numerical methods, roots of nonlinear equations, systems of equations, differential equations, etc. Building Graphical User Interfaces. Prerequisite: CSIS 120. Concurrent: MATH 210.

CPEG 210

Digital Logic Design

(3)

Number systems and codes, Boolean algebra, minimization methods, combinational circuit design and analysis, arithmetic blocks, programmable logic, latches and flip-flops, sequential logic design, state machines, registers, counters, memory elements, logic synthesis, high-level synthesis, an introduction to VHDL. A lab component is included in this course. Prerequisite: CSIS 120.

CPEG 210L

Digital Logic Design Laboratory

(1)

A laboratory component for the course CPEG 210 Digital Logic Design. The lab syllabus is aligned with the course topics. Implementations are done using hardware circuits, software schematic capture and simulation, and hardware description under VHDL. Concurrent: CPEG 210.

CPEG 220

Computer Organization and Architecture

(3)

The fundamental elements of digital logic and their use in computer construction; register level description of computer execution and the functional organization of a computer; essential elements of computer architecture; major functional components of a modern computer system. Design principles associated with modern computer architectures; performance and cost considerations; architectural features influenced by such features as operating systems and window systems, high level languages, etc.; floating point arithmetic, performance of computer systems, processor implementation strategies, micro-programming, pipelining, CISC and RISC, vector processors; memory hierarchy, cache, virtual memory organization for high performance machines; A brief introduction to I/O and bus subsystems. Prerequisite: CPEG 210.

CPEG 221

Computer Systems Engineering
(3)

Covers topics on the engineering of computer SW and HW systems. Introduction to computer organization and architecture: systems programming, processor types, memory, peripherals, performance analysis, benchmarking, emphasis on system selection criteria, recovery, reliability, and maintenance. Operating systems and networks: modern technologies, services, security, and challenges. Case studies and market surveys of computer and information systems in industrial and engineering applications. Prerequisite CSIS 120.

Restriction: Not open for CPEG or ELEG students. Prerequisites: CSIS 120.

CPEG 221L

Computer Systems Engineering Laboratory
(1)

A laboratory component for the course CPEG 221 Computer Systems Engineering. The lab syllabus is aligned with the course topics. Co-requisite: CPEG 221. Restriction: Not open for CPEG or ELEG students. Concurrent: CPEG 221.

CPEG 303L

Advanced Programming for Engineering Laboratory
(1)

Parallel programming: Multi-threaded applications, client server model, distributed computing. Basic database programming and connectivity. Graphical user interface. C programming language for Java programmers: differences, pointers, and applications.

Prerequisite: CSIS 210.

CPEG 305

Algorithms in Computer Systems Engineering
(3)

Introduction to Data Structures with emphasis on graphs. Algorithms: analysis of algorithms, graph algorithms. Advanced design and analysis techniques: dynamic programming, greedy algorithms, etc. Selected algorithms for systems engineering: branch and bound, linear programming, etc. Implementations and engineering applications of algorithms are emphasized. Prerequisite CSIS 130 and MATH 201. Prerequisites: CSIS 130 and MATH 201.

CPEG 330

Microprocessors & Interfacing
(3)

Microprocessor organization, multicore processors, programming model, assembly language programming, addressing modes, translating high-level programs to assembly language, arithmetic/logic operations, selection, looping, pointers, subroutines/macros, etc. I/O and buses, protocols, modern interfacing techniques, interfacing ICs, applications of microprocessors and microcontrollers, and software/hardware interface design; a lab component is included in this course. Prerequisites: CPEG 220 and ELEG 270.

Concurrent: CPEG 330L.

CPEG 330L

Microprocessors & Interfacing Laboratory

(1)

A microcontrollers-based laboratory component for the course CPEG 330 Microprocessors & Interfacing. The lab syllabus is aligned with the course topics. Concurrent: CPEG 330.

CPEG 331L

Data Acquisition and Automation Laboratory

(1)

Data acquisition and automation using both software and hardware tools. Introduction to instrumentation and signal conditioning. Virtual instruments and graphical programming for the analysis and visualization of data. Interfacing analog and digital signals. Real-

time interfacing, sensors, transducers, and actuators, found in industry. Prerequisite: CPEG 220.

CPEG 340

Embedded System Design

(3)

System design process: requirements analysis, specification, hardware/software co-design, testing; embedded computing platforms: general-and special-purpose processors, hardware accelerators, systems-on-a-chip, intellectual property (IP) core-based design; software design tools and technologies: CAD tools, compilers, and assemblers; hardware design tools and technologies: hardware-description languages, high-level synthesis tools, ASIC and FPGA design. Prerequisite: CPEG 220.

CPEG 340L

Embedded System Design Laboratory

(1)

An FPGA-based laboratory component for the course CPEG 340 Embedded System Design. The lab syllabus is aligned with the course topics. Concurrent: CPEG 340.

CPEG 350

Data Communications and Computer Networks.

(3)

This course provides a basic technical introduction to data communication: encoding, modulating, and error detection & correction codes. Topics covered include networks classification; architecture (OSI reference model, TCP/IP, layer services, protocols, LANs, packet switching, routing, and addressing); network technologies and devices; network services; and an introduction to network security. Prerequisite: CPEG 210 and CSIS 210.

CPEG 350L

Data Communication and Computer Networks Laboratory

(1)

A laboratory component for the course CPEG 350 Computer Networks. The lab syllabus is aligned with the course topics. Prerequisite: CPEG 350

CPEG 369

Short Course
(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with different topic. Permission of instructor.

CPEG 388

Independent Study
(1 - 4)

Can be repeated for credit with different topic. Permission of instructor.

CPEG 389

Special Topics in Computer Engineering
(3)

Can be repeated for credit with different topic. Permission of instructor.

CPEG 390

Introduction to the Internet of Things
(3)

This course provides an introduction to the basic concepts behind the internet of things: What is IoT, and how does it work? Students will study its basic design components, and learn how to design and implement a simple IoT application and prototype. The course also introduces smart devices, sensors and connectivity to the internet of meters, alerts and sensing devices. It provides a simple introduction to robotics, to the theory of communication between objects and computers, and to wireless protocols, web services related to IoT, embedded operating systems and microcontrollers. Prerequisites: CPEG 350

CPEG 422

Digital Signal Processing
(3)

Digital processing of signals, sampling, difference equations, discrete-time Fourier transforms, discrete and fast Fourier transforms, digital filter design. Signal Processing under MATLAB. Prerequisite: ELEG 320.

CPEG 430

Introduction of Soft Computing
(3)

Soft computing techniques, fuzzy sets, membership functions, fuzzy logic, fuzzy rules, fuzzy reasoning, fuzzification and defuzzification, artificial neural networks, perceptrons, supervised learning, multi-layer, back propagation, probabilistic reasoning, Bayesian network, evolutionary computation, genetic algorithms, simulated annealing, swarm intelligence, continuous optimization, combinatorial optimization, real-world problems. Prerequisite: CSIS 210 and STAT 214.

CPEG 440

Computer Networks
(3)

This course explores modern computer network technologies, applications, and performance. It focuses on network architectures, TCP/IP protocol architecture, multimedia networking, network

management, network security, and network performance analysis. The course particularly emphasizes data link layer technologies (like multiple access, Ethernet, wireless LANs, SONET/SDH, etc.), network layer technologies (such as logical addressing, Internet protocol, address mapping, and multicasting), transport layer technologies (e.g UDP, TCP, congestion control, quality of service), and application layer technologies (including domain name space, WWW, HTTP, email, and SNMP, among other topics). It also examines the general principles of network performance analysis through mathematical modeling and simulation. Prerequisite: CPEG 350.

CPEG 441

Hardware/Software Co-Design

(3)

Design models: state machines, concurrent process models, dataflow, communicating sequential processes, etc. Design partitioning, co- synthesis, co-stimulation, co-design. Transformational co-design, formal models, correctness. Functional programming in HW design, concurrency, synthesis of parallel algorithms. HW Compilers. Prerequisite: CPEG 340.

CPEG 450

Network Security

(3)

Fundamental security principles and real-world applications of Internet and computer security. Topics covered in the course include legal and privacy issues, risk analysis, attack and intrusion detection concepts, system log analysis, intrusion detection and packet filtering techniques, computer security models, computer forensics, and distributed denial-of-service (DDoS) attacks. Junior standing or permission of instructor. Prerequisite: CPEG 350.

CPEG 455

Wireless Networks and Mobile Systems

(3)

Multidisciplinary, project-oriented design course that considers aspects of wireless and mobile systems. Including wireless networks and link protocols, mobile networking including support for the Internet Protocol suite, mobile middleware, and mobile applications. Junior standing or permission of instructor. Prerequisite: CPEG 350.

CPEG 460

Robotics

(3)

Project-oriented design course that includes topics on perception, sensors, computer vision, navigation, localization, actuation, manipulation, mobility. Intelligence: control, planning, and mission execution. Junior standing. Prerequisites: CPEG 330 and ELEG 320.

CPEG 470

Internship in Computer Engineering

(1 - 3)

An internship experience with the requirement that the student write a report summarizing what the internship job added to his or her knowledge of computer engineering and related fields. Students are limited to a maximum of 6 internship credit hours. This is a pass/fail course. Junior standing and permission of instructor. Prerequisite: minimum GPA of 2.0.

CPEG 475

Senior Design Capstone I

(3)

A supervised project in groups of normally three students aimed at providing practical experience in some aspect of computer engineering. Students are expected to complete a literature survey, project specification, critical analysis, and to acquire the necessary material needed for their intended end product. Prerequisites: CPEG 340. Concurrent: CPEG 330.

CPEG 480

Senior Design Capstone II

(3)

A course that seeks to impart in students the skill to integrate the knowledge gained in different courses by asking them to develop a product that has passed through the design, analysis, testing, and evaluation stages. This course includes production of a professional report, design process and outcome, implementation and testing, and critical appraisal of the project. Prerequisite: CPEG 475.

COMPUTER SCIENCE & IS (CSIS)

CSIS 101

Computer Skills and Emerging Technologies

(3) [T]

This course introduces students to different computing skills, such as: word processing, spreadsheets and power point presentations. This course also explains different emerging technologies, such as: information systems and social media and their use in organizations. Students will have extensive hands-on training during supervised laboratory sessions.

CSIS 110

Foundations of Information Systems

(3) [T]

Information systems are an integral part of all business activities and careers. This course is designed to introduce students to contemporary information systems and demonstrate how these systems are used throughout global organizations. The focus of this course will be on the key components of information systems—people, software, hardware, data, and communication technologies, and how these components can be integrated and managed to create competitive advantage. Through the knowledge of how IS provides a competitive advantage, students will gain an understanding of how information is used in organizations and how IT enables improvement in quality, speed, and agility. This course also provides an introduction to system and development concepts, technology acquisition, and various types of application software that have become prevalent or are emerging in modern organizations and society.

CSIS 120

Computer Programming I

(4) [T]

This course introduces computer programming fundamentals and problem solving using Java programming language. Topics covered include but not limited to: data types, variables, operators, expressions and statements, input and output facilities, selection and conditional constructs, iterative control structures, methods, arrays and arraylists.

CSIS 130

Computer Programming II

(4) [T]

This course continues with the Java language and builds upon the fundamental material covered in CSIS 120 by focusing on the Object Oriented aspects of the language. Topics include but not limited to: Objects and Classes, inheritance and polymorphism, exception handling, Collections, File I/O, testing and Recursion. Prerequisite: CSIS 120.

CSIS 150

Professional and Ethical Issues in CSIS

(3)

This course is designed to introduce students to critical issues in ethics in the context of computing. The focus will be on legal, ethical, privacy, and security issues in computer usage. Students learn how to evaluate real professional cases in the context of ethics and law. Case studies relating to computer ethics will be discussed. Professional code of ethics best practices (ACM and IEEE) will be introduced and evaluated. Prerequisites: CSIS 110 or CSIS 120.

CSIS 210

Data Structures and Algorithms

(3)

This course is designed to introduce students to basic data structures. The course discusses appropriate use of built-in data structures and common applications for each of the following data structures; stack, queue, priority queue, trees, graphs and lists. The course includes a compare and contrast analysis of the costs and benefits of dynamic and static data structure implementations. Basic algorithm analysis issues are introduced. Recursion applications are introduced and analyzed. Prerequisite: CSIS 130 and MATH 110. Concurrent: MATH 213.

CSIS 220

Computer Architecture and Assembly Language

(3)

An introduction to digital computer hardware architecture and organization. Topics include digital logic, processor design, instruction sets, and system architecture. Programs written in assembly language will be used to gain hands-on experience with the underlying

system architecture. Prerequisite: CSIS 130.

CSIS 230

Programming in a Second Language

(3)

CSIS students are expected to have a depth in the Java language; CSIS students are also expected to have a breadth view of other languages. This course is one of those courses where students gain a breadth in another language such as Python. Topics include but not limited to: data types, variables, operators, expressions and statements, input and output facilities, selection and conditional constructs, iterative control structures, functions, lists & Dictionaries, File I/O, Objects & Classes. Prerequisite: CSIS 130.

CSIS 250

Database Systems

(3)

This course provides the students with an introduction to the core concepts in data and information management. It is centered around the core skills of identifying organizational information requirements, modeling them using conceptual data modeling techniques, converting the conceptual data models into relational data models and verifying its structural characteristics with normalization techniques, and implementing and utilizing a relational database using an industrial-strength database management system. The course will also include coverage of basic database administration tasks and key concepts of data quality and data security. Prerequisite: CSIS 130.

CSIS 255

Web Technologies

(3)

This course provides students with basic knowledge and technical aspects and skills needed to build Web applications. It covers a range of topics including but not limited to: basic concepts of the Internet and Internet programming, fundamentals of Website design, Websites building tools and languages, basics of XHTML, Scripting and Scripting Languages (e.g., Java Script), Web Servers and Web application servers, client-side programming, server-side programming, database connectivity to the Web applications, adding dynamic content to Web applications, programming the user interface for the Web applications. Students are expected to complete a project in the development and maintenance of Web sites. Prerequisite: CSIS 130.

CSIS 260

System Analysis, Design and Acquisition

(3)

This course discusses the processes, methods, techniques and tools used by organizations to determine how they should conduct their business with a particular focus on how computer-based technologies can most effectively contribute to the way business is organized. The course covers a systematic methodology for analyzing a business problem or opportunity, modelling it using a formal technique, determining what role, if any, computer-based technologies can play in addressing the business need, articulating business requirements for the technology solution, specifying alternative approaches to acquiring the technology capabilities needed to address the business requirements, and specifying the requirements for the information systems solution in particular, in-house development, development from third-party providers, or purchased commercial-off-the-shelf (COTS) packages. Prerequisite: CSIS 130.

CSIS 300

E-Commerce

(3)

This course focuses on the evolution of electronic commerce where business is conducted between organizations and individuals relying primarily on digital media and transmission. Participants investigate the opportunities and challenges of exchanging goods and services over communications networks as well as the manner in which relationships are being reshaped. New forms of business arrangements are also examined. Course activities are designed to provide both managerial and entrepreneurial assessments of anticipated advances in information technology with respect to business systems and electronic markets. Sophomore standing or permission of instructor. Prerequisite: CSIS 130.

CSIS 302

IT Infrastructure

(3)

This course provides an introduction to IT infrastructure issues. It covers topics related to both computer and systems architecture and organization. This course gives students the ability to focus on hardware and systems software technology for designing organizational processes and software solutions that require in-depth understanding of the IT infrastructure capabilities and limitations. The course focuses strongly on core computing systems architecture concepts and structures, operating systems, data centers, security of IT infrastructure, cloud computing and computing as a service. Prerequisite: CSIS 210.

CSIS 310

Introduction to Operating Systems

(3)

This course introduced students to the study of supervisory programs. The course will, start with a brief historical perspective of the evolution of operating systems and then cover the major components of the most operating systems such as process management (processes, threads, CPU scheduling, synchronization, and deadlock), memory management (segmentation, paging, swapping), files systems; and operating system support for distributed systems. This course will allow students to have an opportunity to learn a lot of practical information about how programming languages, such as: Java, C and C++, operating system, and architectures interact and how to use each effectively. Students will also gain an experience on how to use Linux as an operating system. Prerequisite: CSIS 210.

CSIS 320

Theory and Implementation of Programming Languages

(3)

This course covers fundamentals of computing theory and programming languages which mainly include: deterministic finite automata (DFA), non-deterministic automata (NFA), regular expression (RE), context free grammar (CFG), push-down automata (PDA), Turing machines, evaluation criteria, evolution of languages, language paradigms, formal methods for syntax and semantics (EBNF) and main constructs of languages. This course is majorly theoretical by its nature since it does not cover a specific programming language but rather the underlying concepts of computing theory and programming languages. Prerequisite: CSIS 210.

CSIS 322

Computer Networks and Data Communication

(3)

This course introduces the fundamentals of networking infrastructure, different types of networks and network hardware and software. The course focuses on data transmission, switches, routers topology, wiring and physical topology protocol, layering LAN, WAN and internetworking. Prerequisite: CSIS 210 and MATH 213.

CSIS 329

Introduction to Parallel and Distributed Computing

(3)

This course covers foundation of parallel and distributed computing. Topics include: Cloud Computing, Grid Computing, Cluster Computing, Supercomputing. Some detailed topics include asynchronous/synchronous, computation concurrency, fault tolerance, interconnection topologies, load balancing, memory consistency model, memory hierarchies, message passing interfaces, multithreaded programming, parallel algorithms & architectures, scalability and performance studies, scheduling,

storage systems. Prerequisite: CSIS 210.

CSIS 330

Software Engineering
(3)

This course is designed to introduce students to basic concepts of software engineering development cycle. Students learn techniques for collecting requirements, modeling design and best practices for documenting software projects. Students also use professional modeling tools throughout the development of their projects. The course places special emphasis on object-oriented modelling using UML. Students are expected to complete a medium scale software project and work professionally within a group. Prerequisite: CSIS 210.

CSIS 369

Short Course
(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

CSIS 370

Computer Graphics
(3)

This course provides students with the basic concepts, technical and mathematical knowledge and skills required to design and implement computer graphics. Topics to be covered include but not limited to: graphics hardware, software utilities, two and three dimensional transformation and viewing, graphics arts and animations. Students are expected to perform practical assignments to design programs using programming graphics tools and libraries (e.g., Java Applet, Java 2D and 3D API). Prerequisite: CSIS 210 and MATH 201.

CSIS 388

Independent Study
(1 - 4)

Can be repeated for credit with a different topic. Permission of instructor.

CSIS 389

Special Topics in Computer Science
(3)

Can be repeated for credit with a different topic. Permission of instructor.

CSIS 390

Special Topics in Information Systems
(3)

Can be repeated for credit with a different topic. Permission of instructor.

CSIS 395

Enterprise Systems
(3)

This course discusses the key aspects relating to the selection, implementation, adoption, diffusion and management of Enterprise Resource Planning (ERP) Systems (also known as Enterprise Systems

(ES). An ERP System is an off-the-shelf package that provides an integrated suite of applications which provide transaction processing and management information systems for the common core of business processes. Enterprise Systems also provide comprehensive administrative systems and help to automate and streamline business processes. ERP systems have been widely implemented worldwide, particularly in larger organizations. It is reported that ERP market exceeded USD\$78 billion in 2004 and it has been one of the largest, fastest-growing application software industries in the world. While organizations invest substantial amount of resources in acquiring ERP systems from vendors such as SAP and Oracle, presumably expecting positive impacts to the organization and its functions, some ERP system projects have reported nil or detrimental impacts to the organizations and its functions. Junior standing or permission of instructor.

CSIS 401

Mobile Computing

(3)

This course provides an introduction to mobile computing and mobile application development. Students will have a hands-on experience with the technologies, tools, and techniques used to develop mobile software solutions for business or entertainment. Junior standing. Prerequisite: CSIS 130.

CSIS 405

Analysis of Algorithms

(3)

This course is designed to introduce students to algorithm analysis and strategies. The course explains different strategies used for solving problems (brute-force, greedy, divide-and-conquer, decrease-and-conquer, transform-and-conquer, and dynamic programming). The course introduces comparison of the runtime efficiency of solutions using different strategies. Space and time efficiency are discussed, compared and analyzed for different types of applications. Prerequisite: CSIS 210 and MATH 201.

CSIS 415

Artificial Intelligence

(3)

This course provides students with the basic concepts, knowledge and skills required in utilizing Artificial Intelligence techniques in solving practical problems. Topics to be covered include but not limited to: knowledge representation methods like propositional logic and predicate calculus, blind search strategies (breadth-first and depth-first), heuristic search strategies (hill-climbing, best-first and A*), backward and forward reasoning, applications; expert systems, natural language processing, pattern recognition, image processing, and planning. The practical part of the course involves programming exercises and case studies related to the topics covered. Prerequisite: CSIS 210 and MATH 213.

CSIS 417

Intelligent Systems

(3)

This course provides students with an understanding of the principles of decision-making in organizations, an appreciation of the concepts of intelligent systems (IS) and decision support systems (DSS) across various disciplinary areas, and the acquisition of skills in the identification, verification and construction of DSS/IS. Prerequisite: CSIS 210.

CSIS 425*Advanced Software Engineering*

(3)

This course is designed to introduce students to advanced and contemporary software engineering topics. Advanced Object Oriented software engineering topics will be covered including: design patterns, testing, project management, and metrics to measure quality of code. In addition, the course will also introduce the challenges of distributed software development. Students have to develop small framework, document it and use it to develop at least one application. Prerequisite: CSIS 330.

CSIS 440*Software Project Management*

(3)

This course discusses the processes, methods, techniques and tools that organizations use to manage their software projects. The course covers a systematic methodology for initiating, planning, executing, controlling, and closing projects. This course assumes that project management in the modern organization is a complex team-based activity, where various types of technologies (including project management software as well as software to support group collaboration) are an inherent part of the project management process. This course also acknowledges that project management involves both the use of resources from within the firm, as well as contracted from outside the organization. Junior standing or permission of instructor. Prerequisite: CSIS 330.

CSIS 470*Practicum in Computing & Information Systems*

(1 - 3)

This course is designed to introduce students to an internship experience. Students are encouraged to find a related placement in the field of IT in a local/international organization. A supervisor from AUK and the placement organization are required to coordinate and validate the internship activities. Students write a report summarizing what the internship job added to his or her knowledge of computer science. Students normally enroll in internship in their senior year to guarantee having enough background to function properly in a professional environment. This is a pass/fail course. Permission of instructor.

CSIS 475*Compiler Construction*

(3)

Principles and practices in the design of compilers. Introduction to formal languages. Lexical analysis and syntax analysis. Top-down and bottom-up parsing. Syntax directed translation and syntax trees. Intermediate forms, symbol tables, and code generation. Junior standing or permission of instructor. Prerequisite: CSIS 320.

CSIS 476*Computer Security and Information Assurance*

(3)

This course provides an introduction to fundamental computer security issues. The course covers theory and practice of computer security and information assurance. Students will have hands-on experience with using security tools. Security threats and countermeasures against them will be discussed. Prerequisite: CSIS 302 or CSIS 310.

CSIS 480

Business Process Management

(3)

Business process management (BPM) is concerned with the concepts, methods, and techniques that support the design, administration, configuration, enactment, analysis and automation of business processes. In this course students will be introduced

(1) to key concepts and approaches to business process management and improvement, (2) to the way in which information technology can be used to manage, transform, and improve business processes. The main focus of this course is both understanding and designing business processes within IS Environment. Students will learn how to identify, document, model, assess, and improve core business processes within that environment. Prerequisite: CSIS 260 or CSIS 330.

CSIS 490

Computer Science and Information Systems Capstone I

(3)

This course integrates core topics of the computer science or information systems body of knowledge, teamwork, and professional practices through the implementation of a large-scale project. Senior standing.

CSIS 491

Computer Science and Information Systems Capstone II

(3)

This course integrates core topics of the computer science or information Systems body of knowledge, teamwork, and professional practices through the implementation of a large scale project. The development phases included in the course are design and implementation of a fully functioning project. Senior standing. Prerequisite: CSIS 490.

DRAMA (DRAM)

DRAM 101

Theatre Appreciation

(3) [H]

An introductory survey of the development of theatre from Ancient Greek Comedy and Tragedy to modern American and English drama.

DRAM 150

Introduction to Acting

(3) [H]

An introductory course into acting focusing on terminology, movement, and various contemporary western acting methods.

DRAM 160

Theatre Practicum

(3) [H]

Faculty directed theatre production. Specific dramatic material will vary. Students will have an opportunity to gain initial experience in acting, stage management, dramaturgy, assistant direction, design (costume/ lighting/ scenic), or as other production staff. DRAM 160 runs concurrently with DRAM 360 and students cannot be enrolled in both during one semester.

DRAM 211*Contemporary Theatre*

(3) [H]

Survey course designed to familiarize the student with contemporary works of dramatic literature works from 1879 to the present.

DRAM 212*Ancient Greek Theatre*

(3) [H]

An in-depth survey course of the dramatic writings of the ancient Greek world, this course will acquaint the student with some of the first works of the Western civilization.

DRAM 213*Shakespeare for Beginners*

(3) [H]

A broad survey course of selected scenes and other material from the dramatic works of William Shakespeare.

DRAM 250*Acting I*

(3) [H]

A continuation of Intro to Acting, with a focus on the Stanislavsky method and Chekhov. Permission of instructor. Prerequisite: DRAM 150.

DRAM 350*Shakespeare in Performance*

(3) [H]

An exploration into Shakespeare's prose and poetry through text and performance. Text analysis and scansion techniques will be discussed as well as sonnet composition. Sophomore standing.

DRAM 360*Theatre Production*

(3) [H]

Faculty directed theatre production. Specific dramatic material will vary. Opportunity is open to any students by audition or related academic work to qualify for a position of major responsibility as an actor a crewmember as designated by the director. May be repeated for credit.

DRAM 369*Short Course*

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with different topic. Permission of instructor.

DRAM 388*Independent Study*

(3)

Can be repeated for credit with different topic. Permission of instructor

DRAM 389

Special Topics
(1 - 3)

Can be repeated for credit with different topic. Permission of instructor.

ECONOMICS (ECON)**ECON 101**

Introduction to Contemporary Economic Issues
(3)

Introduction to fundamental concepts of micro- and macro-economics and the tools that are generally used to analyze current business and economic issues.

ECON 200

Principles of Microeconomics
(3)

An introduction to major theories of microeconomics. Topics include: coping with scarcity, supply and demand model and the price system, role of government, firm behavior and market mechanism. Prerequisite: MATH 103 or 110 or 201.

ECON 201

Principles of Macroeconomics
(3)

An introduction to major theories of macroeconomics. Topics include: national income accounting, economic growth and productivity, unemployment, inflation, economy-stabilizing institutions. Concurrent: ECON 200.

ECON 302

Quantitative Methods for Business and Economics
(3)

Apply theoretical and empirical knowledge of mathematics and statistics to understand and quantify economic and business relationships. Topics include mathematical functions, systems of equations, derivatives, static optimization, hypothesis testing, analysis of variance, simple and multiple linear regression, univariate time-series techniques, and the time value of money. Statistical software and real world data are used for advanced computations. Pre-requisite: MATH 103 or 110 and STAT 201.

ECON 304

Economics of Labor
(3)

The application of economic theory to current labor problems, domestic and foreign. Problems include wage theory and wage differentials, training policy, poverty, unemployment and underemployment, migration, discrimination, issues of productivity, industrialization and union policies. Prerequisites: ECON 200 and ECON 201.

ECON 305

International Economics

(3)

Theories and concepts of international trade; real flows; terms of trade; industry structure and resource differences; international competitiveness; the effects of international trade on the economies of importing and exporting countries; the effects of tariffs and quotas and other nontariff barriers on international trade. Also includes multinational corporations, trade and development, customs, and unions. Prerequisites: ECON 200 and ECON 201.

ECON 310

Intermediate Microeconomics

(3)

Expand the use of microeconomics principles and concepts to describe real world current business and economics events. Topics include households and firms' behaviors and their interactions, market structure and their implications for the overall allocation of resources and social welfare, and government intervention and tools to improve the functioning and outcome of markets. Pre-requisite: ECON 200, ECON 201 and BUS 209.

ECON 312

Intermediate Macroeconomics

(3)

Examine functioning of the aggregate economy using theories of national income accounting, price level, employment, economic growth and its long run determinants, business-cycle and macroeconomics fluctuations, monetary and fiscal policy. Apply macroeconomic models to explain the determination of aggregate output and growth. Pre-requisite: ECON 200, ECON 201 and BUS 209.

ECON 315

Managerial Economics

(3)

The course focuses on the application of the concepts of economics to managerial issues. It integrates economic principles with modern management techniques and theory for the purpose of efficient managerial decision-making. Topics include optimization techniques, demand estimation, production and cost analysis, organizational structure, and pricing practices. Prerequisites: ECON 200, ECON 201, and BUS 209.

ECON 351

Money and Banking

(3)

Analysis of capital markets and the role of banks, and other financial institutions in the economy. Prerequisites: ECON 200 and ECON 201.

ECON 363

Environmental & Natural Resource Economics

(3)

An introductory course in the environmental and natural resource economics, it is designed to help students explore the important role of economics in the design and implementation of policy and management of natural and environmental resources. Prerequisites: ECON 200 and ECON 201.

ECON 369

Short Course
(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with different topic. Permission of instructor.

ECON 388

Independent Study
(1 - 3)

Independent study by student with the requirement that the student writes a report summarizing the knowledge acquired during the period of study. Permission of instructor. Prerequisite: ECON 209.

ECON 389

Special Topics
(3)

An analysis of contemporary issues in economic theory. Can be repeated for credit with a different topic. Permission of instructor. Prerequisites: ECON 200 and ECON 201.

ECON 405

Comparative Economic Systems
(3)

A theoretical and historical evaluation of different economic systems, planning strategies and their effects on economic growth, democracy, equity and effectiveness; assessment of the historical experience of the formerly socialist economies; distinctive features of European and Japanese economies and Third World societies. Prerequisites: ECON 200 and ECON 201.

ECON 409

Economic Development
(3)

Theories and policies of economic development; role of international institutions; impact of international trade policy, international capital flows, exchange rate policies, inflation, public finance, monetary policy, competitiveness, military expenditures; agriculture, population, and the environment. Prerequisites: ECON 200 and ECON 201.

ECON 413

Economics Capstone: Development & Resources Economics
(3)

This course applies theories and methods to expand an understanding of economics. A key component is a guided research project that uses prior economics and business training to hone analytical and decision-making skills. Students improve analytical capacities and develop responses to contemporary economic challenges. Prerequisite: ECON 310, ECON 312 and 9 additional ECON credit hours at 300 level and above.

ECON 429

Environmental and Energy Policy
(3)

The course will examine the principles, policy instruments, and current practice of using economics to analyze various environmental and natural resource problems, especially the economics of energy.

It focuses on the study of environmental protection, evaluation of environmental costs and benefits, and optimal management of energy resources. Prerequisites: ECON 200 and ECON 201.

ECON 452

Econometrics

(3)

Review of econometric statistics and statistical techniques; the application of statistical models to economic data; regression analysis and estimation of economic models; the question of violations of the basic assumptions of the regression model, dummy variables and analysis of variance; index numbers and time series analysis. Prerequisites: ECON 300 and ECON 301.

ECON 470

Internship in Economics

(1 - 3)

An internship experience with the requirement that the student write a report summarizing what the internship job added to his/her knowledge of Economics and related fields. Students are limited to a maximum of 3 internship credit hours for any major and 6 credits overall. Permission of instructor and senior standing.

ECON 485

Seminar in Economics

(3)

A seminar for seniors; majors conduct research projects on varying relevant economic issues; presentation of research approaches, subjects and results; a group project and an individual research project may be allowed. Topics and instructor may vary. Senior standing.

EDUCATION (EDUC)

EDUC 389

Special Topics

(3)

Can be repeated for credit with different topic. Permission of instructor.

ELECTRICAL ENGINEERING (ELEG)

ELEG 220

Electric Circuits

(3)

Introduction to the basic laws and techniques for electric circuits analysis, response of circuits with resistors, independent sources, controlled sources, operational amplifiers; Transient analysis of basic circuits with R, L, and C components. AC analysis and phasors; An Introduction to Matlab. A lab component is included in this course. Prerequisite: PHYS 116. Concurrent: ELEG 220L and MATH 210.

ELEG 220L*Electric Circuits Laboratory**(1)*

A laboratory component for the course ELEG 220 Electric Circuits. The lab syllabus is aligned with the course topics. Implementations are done using hardware circuits and software simulation tools. Concurrent: ELEG 220.

ELEG 270*Electronics**(3)*

Introduction to the basic electronic devices including diodes and transistors and their operating principles. Analysis of electronic circuits operating under dc bias and switching conditions. Applications of devices in digital electronic circuits. Prerequisite: ELEG 220.

Concurrent: ELEG 270L.

ELEG 270L*Electronics Laboratory**(1)*

A laboratory component for the course ELEG 270 Electronics. The lab syllabus is aligned with the course topics. Implementations are done using hardware circuits and software simulation tools. Concurrent: ELEG 270.

ELEG 300*Engineering Electromagnetics**(3)*

Static electric & Magnetic fields, conductors, capacitance, electrostatic energy and forces, Poisson's equation, Biot-Savart law, Ampere's law, vector magnetic potential, inductance, Maxwell's equations, Faraday's law, time-harmonic fields, wave propagation, reflection, and transmission lines. Prerequisites: ELEG 220 and MATH 207.

ELEG 301L*Programmable Logic Controllers Lab**(1)*

Configuration of specified PLC Hardware, basics of FB and FC Programming, IEC Timers and IEC Counters, basic of diagnostics and diagnostics via Web, programming of analog values, Global Data blocks, basics of WinCC and programming of PIC Controller. Prerequisite: CPEG 210

ELEG 305*Introduction to Biomedical Engineering**(3)*

This course provides an overview of the biomedical engineering field. It introduces the interface between engineering and health

science; analyzes biological and physiological problems in health care, and explores bioinstrumentation, bioimaging, biomechanics, biomaterials, and biomolecular engineering. Students will study case studies and examples of bio-sensors and bio-signal processing, and will examine moral and ethical issues in this field. Prerequisite: ELEG 220.

ELEG 310

Electric Machines and Power Fund

(3)

3-phase circuits and power calculation, magnetic circuits. Transformers: single-phase, construction, operation, autotransformers, and 3- phase. AC and DC machines. Synchronous generators: construction, equivalent circuits, testing and performance characteristics; Induction motors. Prerequisite: ELEG 220. Concurrent: ELEG 310L.

ELEG 310L

Electric Machines Laboratory

(1)

A laboratory component for the course ELEG 310 Electric Machines. The lab syllabus is aligned with the course topics. Concurrent: ELEG 310.

ELEG 311

Power Distribution and Utilization

(3)

The course covers the design of a radial and/or meshed power distribution network, and assessment of a power network for thermal capability, power loss and economic operation. The course also includes topics related to cost analysis (fixed and variable costs), optimization of a distribution network, power quality analysis and an overview of electricity markets. Pre-requisite: ELEG 310.

ELEG 315

Electrical Systems Engineering

(3)

Covers topics on the engineering of electrical systems. Introduction to electric machines: transformers, generators, and motors. Introduction to power systems: generation, transmission, and distribution. Renewable energy systems. Case studies and market surveys of electrical systems. Prerequisite: ELEG 220. Restriction: Not open for ELEG students. Prerequisites: ELEG 220.

ELEG 315L

Electrical Systems Engineering Laboratory

(1)

A laboratory component for the course ELEG 315 Electrical Systems Engineering. The lab syllabus is aligned with the course topics. Co-requisite: ELEG 315. Restriction: Not open for ELEG students. Concurrent: ELEG 325.

ELEG 320

Signals & Systems

(3)

Signals (functions of one or more independent variables) and Systems (devices that perform operations on signals) present fundamental concepts that arise in a variety of fields. The ideas and techniques associated with these concepts inform such diverse disciplines as biomedical engineering, acoustics, communications, aeronautics and astronautics, circuit design, and the arts, humanities, and social sciences. Topics include transforms (Z, Laplace, Fourier), frequency analysis, convolution, FIR and IIR systems, stability, generalized functions, modulation (AM and FM), sampling, and digital filtering. Prerequisite: ELEG 220. Concurrent: ELEG 320L.

ELEG 320L

Signals & Systems Laboratory

(1)

A laboratory component for the course ELEG 320 Signals & Systems. The lab syllabus is aligned with the course topics. Implementations are done using hardware circuits and software tools. Concurrent: ELEG 320.

ELEG 321

Analog and Digital Filters

(3)

The course covers the Butterworth, Chebyshev, Elliptic, and other analog filters' approximation functions, lowpass, highpass, bandpass, and bandstop filters, active analog filter implementations using Op-Amps, digital filter design, and the use of CAD tools for analysis and design of filters. Prerequisites: ELEG 320.

ELEG 323

Measurement and Instrumentation

(3)

In this course, students study the use of resistive, capacitive, inductive and piezoelectric transducers; the measurement of displacement,

velocity and acceleration (translational and rotational), force, torque, vibration and shock; the measurement of pressure, flow, temperature and liquid level, pH, conductivity, viscosity and humidity. The course also explores the design of instrumentation systems using various signal conditioning, transmitting, and logging techniques. Student will examine case studies in different applications, with a focus in process industry. Pre-requisite: ELEG 220.

ELEG 323L

Measurements and Instrumentation Lab

(1)

A laboratory component for the course ELEG 323 Instrumentation. The lab syllabus is aligned with the course topics. Corequisite: ELEG 323.

ELEG 325

Communication Systems

(3)

This course introduces students to communication systems, sampling theorem, modulation theory, multiplexing, random processes for communication systems, baseband digital signaling, and related topics. Pre-requisite: ELEG 320.

ELEG 330

Power System Analysis

(3)

Examines power system concepts; transmission line, transformer and rotating machine modeling; steady-state analysis and power flow; fault analysis; theory of symmetrical components; and power system stability. Prerequisite: ELEG 310. Concurrent: ELEG 330L.

ELEG 330L*Power Systems Laboratory**(1)*

A laboratory component for the course ELEG 330 Power System Analysis. The lab syllabus is aligned with the course topics. Concurrent: ELEG 330.

ELEG 331*Power System Protection**(3)*

This course introduces the fundamental concepts of various types of protections used in electrical power networks to ensure the safety of people and equipment in case of abnormal conditions or accidental contacts. Students will explore applications and case studies in transmission lines, generators, motors, transformers, bus bars, and power distribution feeders/networks, and will study modern information and communication technologies (ICT)-based protection schemes. Prerequisites: ELEG 310.

ELEG 331L*Power System Protection Lab**(1)*

A laboratory component for the course ELEG 331 (Power System Protection). The lab syllabus is aligned with the course topics. Concurrent: ELEG 331.

ELEG 340*Fundamentals of High Voltage Engineering**(3)*

This course introduces students to the high voltage (HV) equipment used in electrical power networks; electrostatics and electrical stress; gas, liquid and solid insulation materials; insulation co-ordination; the generation of HV; and HV testing and measurement equipment. Prerequisites: ELEG 220.

ELEG 369*Short Course**(1 - 3)*

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with different topic. Permission of instructor.

ELEG 388*Independent Study**(1 - 4)*

Can be repeated for credit with different topic. Permission of instructor.

ELEG 389*Special Topics in Electrical Engineering**(3)*

Can be repeated for credit with different topic. Permission of instructor.

ELEG 411*Electric Drives**(3)*

Analysis of dc and poly-phase induction motors, starting, and control; AC solid-state control, dc link in adjustable speed drivers, voltage and frequency controls, braking and plugging; DC rectifier and chopper, dynamic and regenerative braking, plugging; stepper motors; power drive; special-purpose motors. Prerequisite: ELEG 310.

ELEG 412*Renewable Energy Systems**(3)*

This course focuses on modeling and analysis of renewable energy sources, such as wind generation and solar panels, power electronics for renewable energy systems, and integration of renewable energy systems with the distribution grid. Students will model and analyze short and long-term energy storage systems. Prerequisite: ELEG 310.

ELEG 421*Control Systems**(3)*

Control Systems. Advantages of closed-loop feedback systems. System representations using mathematical models, block diagrams & signal flow graphs. Poles and zeros. P, PI & PID controllers. System design & stability. Frequency response techniques, Root-locus, & Bode-plot analysis. Basic lead-lag compensation. Control systems under MATLAB. Prerequisite: ELEG 320; or STEG 210 and ELEG 220. Prerequisite: ELEG 320 or STEG 210 and ELEG 220.

ELEG 421L*Control Systems Laboratory**(1)*

A laboratory component for the course ELEG 421 Control Systems. The lab syllabus is aligned with the course topics. Concurrent: ELEG 421.

ELEG 422*Digital Control**(3)*

Analysis and design of discrete-time feedback control systems. Z-transforms, transfer functions, state-space models. Sampling, A/D and D/A converters, sampled-data systems. Discrete equivalent systems. Transient specifications, steady-state tracking errors, stability, quantization effects. Digital PID controllers. Implementation of digital controller. Digital control systems under MATLAB. Prerequisite: ELEG 320; or STEG 210 and ELEG 220.

ELEG 450*Modern Antennas in Wireless Telecommunications**(3)*

This course explores the fundamental theory and practice of antenna design and deployment in modern wireless telecommunication systems. Pre-requisite: ELEG 300.

ELEG 470*Internship in Electrical Engineering*

(1 - 3)

An internship experience with the requirement that the student write a report summarizing what the internship job added to his or her knowledge of Electrical Engineering and related fields. Students are limited to a maximum of 6 internship credit hours. This is a pass/fail course. Junior standing and permission of instructor. Prerequisite: minimum GPA of 2.0.

ELEG 471*Power Electronics*

(3)

Operating characteristics of BJTs, IGBTs, MOSFETs, Thyristors. Diode circuits & rectifiers, source inductance, 3- phase rectifiers dc- dc switched mode converters, buck, boost, & buck- boost circuits, bridge converter; PWM inverters, voltage control, harmonics, 3- phase inverters; gate & base drive circuits, snubber circuits. Prerequisite: ELEG 270.

ELEG 471L*Power Electronics Laboratory*

(1)

A laboratory component for the course ELEG 471 Power Electronics. The lab syllabus is aligned with the course topics. Concurrent: ELEG 471.

ELEG 472*CMOS Digital Circuit Design*

(3)

This course explores the design aspects involved in the realization of CMOS digital integrated circuits from device up to the register level. It addresses major design methodologies. The course includes the study of the MOS device, CMOS inverter, critical interconnect and gate characteristics that determine the performance of CMOS digital circuits. It also includes CMOS logic design from transistor level to layout for fabrication. Students will use state-of- the art CAD tools to verify designs and develop efficient circuit layouts.

Prerequisite: ELEG 270.

ELEG 475*Senior Capstone Design I*

(3)

A supervised project in groups of normally three students aimed at providing practical experience in Electrical Engineering. Students are expected to complete a literature survey, project specification, critical analysis, and to acquire the material needed for their end product. Prerequisites: ELEG 270, CPEG 220, and ELEG 310.

ELEG 480*Senior Capstone Design II*

(3)

A course that seeks to impart in students the skill to integrate the knowledge gained in different courses by developing a product that has passed through the design, analysis, testing, and evaluation stages. This course includes the production of a professional report. Prerequisite: ELEG 475.

ENGLISH LANGUAGE & LITERATURE (ENGL)

ENGL 100

Foundations of Academic Reading and Writing
(0 - 4) [E]

Prepares students to read and write for academic purposes. Through a small-class workshop environment centered on reading and writing activities, class discussion, small-group collaboration, individual conferences with instructors, and supplemental lab workshops, students will develop their understanding of and facility with a variety of reading and writing strategies necessary for success in university. A concurrent lab section is required. Prerequisite: TOEFL internet-based (iBT) reading score of 13 and writing score of 14. Additional placement testing may be required.

ENGL 101

Approaches to Critical Reading and Writing
(3) [E]

Focuses on writing and reading for various academic and general purposes and audiences. Students develop analytical, critical, and argumentative thinking, reading and writing abilities and are introduced to research practices. Prerequisites: Score of 80 or higher on the Accuplacer reading exam and a score of 6 or higher on the Accuplacer essay exam, OR a TOEFL iBT reading score of 18 or higher and a writing score of 17 or higher, OR a grade of C or better in ENGL 100 or IENG 030/031. A grade of "C-" or better must be earned to pass this course.

ENGL 102

Writing and Information Literacy
(3) [E]

Introduces students to the academic, intellectual, and public activities of research. The primary aim of this course is to develop students critical and information literacy. Students develop a more complex understanding of multiple research processes and genres and formulate their own critical analysis of and response to a range of academic and public issues. Prerequisite: ENGL 101. A grade of "C-" or better must be earned to pass this course.

ENGL 108

Public Speaking
(3) [H]

Teaches the principles of public speaking in large and small group environments with emphasis on audience analysis, research and evidence, reasoning, rhetoric, organization and delivery. Through analyzing professional speeches and their effectiveness, the student practices the most common speech types: informative, persuasive, special occasion, and impromptu. A grade of "C-" or better must be earned to pass this course.

ENGL 200

Introduction to Literary Studies
(3) [H]

Introduces students to the elements of literature and literacy analysis. Students learn what makes a piece of writing "literary," as well as the terms and skills needed to read, understand, and analyze literature. The course covers literacy genres and critical approaches,

providing a foundation for more advanced literary studies. Co-requisite: ENGL 102.

ENGL 207

Introduction to Rhetorical Studies

(3) [H]

Outlines rhetoric from its roots in the classical world to its many variations over time and culture. Central to the course is the role of rhetoric in determining the multiple ways in which discourse is constructed to achieve specific ends. Pre-requisite: ENGL 101.

ENGL 220

Survey of World Literatures I

(3) [H]

Provides a foundation in canonical texts of world literatures from antiquity through the mid-17th century by introducing major historical periods, movements, authors and literary texts. Co-requisite: ENGL 102 and ENGL 200.

ENGL 221

Survey of World Literatures II

(3) [H]

Provides a foundation in canonical texts of world literatures from the late 17th century onward through an introduction of major historical periods, movements, authors and literary texts. Co-requisites: ENGL 102 and ENGL 200.

ENGL 300

History of the English Language

(3) [H]

The structure of present day English is radically different from that of Old and Middle English. This course explores the stages through which the English language has evolved to reach its present form. This course will also examine the structure and social meanings of colonial varieties of English. Sophomore standing or permission of instructor. Prerequisite: ENGL 102.

ENGL 301

Literature and Film

(3) [H]

Involves viewing a variety of films and formulating critical responses. Students will demonstrate in their own responses to film their ability to use effectively the critical language and methodology of film criticism in its varied aesthetic, historical, and ideological forms. Prerequisite: ENGL 200. Co-requisite: ENGL 220 or ENGL 221.

ENGL 302

Medieval Literature (500-1500)

(3) [H]

This course provides students with a foundation in literature from the medieval period in England. Students will encounter some of the earliest recorded poems and writings in English across a number of genres and forms, including legends and fables, epics and myths, and more.

ENGL 303

English Poetry and Prose: 1500-1660

(3) [H]

Examines Renaissance literature and its impact on the “modern world”, with attention to the cultural, social, historical and religious factors in the development of arts and letters in English.

ENGL 304

English Poetry and Prose: 1660-1800

(3) [H]

Explores the English Enlightenment, the Restoration, and the Age of Reason, with an emphasis on the rise of technology and technological culture and the impact of science and scientific methodology on art and literature. Prerequisite: ENGL 200. Co-requisite: ENGL 220 or ENGL 221.

ENGL 305

Professional Writing and Communication

(3) [H]

Explores professional approaches to communication in today's global business environment. Also focuses on principles and practices needed for effective internal and external business communication (memos, letters, reports, proposals and presentations). Students evaluate case studies in business and use appropriate style-guides to document sources. Prerequisite: ENGL 102.

ENGL 307

Shakespeare

(3) [H]

Explores the original socio-historical context of Shakespeare's works, as well as their continuing impact on literature around the globe. Students will undertake an intensive study of selected comedies, tragedies, history plays, and Shakespeare's sonnets. Prerequisite: ENGL 200. Co-requisite: ENGL 220 or ENGL 221.

ENGL 308

Early American Literature

(3) [H]

Examines representative English novels from the first novels in England during the 18th century, tracing their development through the 19th century, with consideration of historical, cultural and social changes during the period. Prerequisite: ENGL 200. Co-requisite: ENGL 220 or ENGL 221.

ENGL 309

19th Century British Literature

(3) [H]

Examines major British literary texts from the Romantic and Victorian eras, presenting the relationship between each author's works and various historical and cultural developments, such as the Industrial Revolution and colonialism. Prerequisite: ENGL 200. Co-requisite: ENGL 220 or ENGL 221.

ENGL 310

19th Century American Literature

(3) [H]

This course will examine major American literary texts written by American writers of the nineteenth century, including poetry and prose by Emerson, Poe, Dickinson, Thoreau, Stowe, Melville, Chopin, Whitman, Cooper, Douglass, Jacobs, Twain, Hawthorne, and other writers concerned with issues of gender, race, and social justice. The course presents the relationship between each author and his/her works and various historical and cultural developments, such as the Civil War and Abolition and Suffrage. Prerequisite: ENGL 200. Co-requisite: ENGL 220 or ENGL 221.

ENGL 311*English Novel**(3) [H]*

An examination of representative English novels from the beginning up to the Nineteenth Century. Prerequisite: ENGL 200. Co- requisite: ENGL 220 or ENGL 221.

ENGL 312*American Novel**(3) [H]*

An examination of representative American novels from the beginning up to the Nineteenth Century. Prerequisite: ENGL 200. Co- requisite: ENGL 220 or ENGL 221.

ENGL 314*Modernism/ Postmodernism**(3) [H]*

Investigates the trends in the intellectual and aesthetic movements that inform 20th- century Western ideas about art. Students look at various modernist trends such as an emphasis on impressionism and subjectivity, blurring and distinctions between genres, tendency toward fragmented forms and discontinuous narratives, and trace the continuation and / or rejection of these trends in postmodernism. Prerequisite: ENGL 200. Co-requisite: ENGL 220 or ENGL 221.

ENGL 315*20th Century American Literature**(3) [H]*

Examines the major trends in 20th- century U.S. literature, including artistic movements such as Naturalism, the Beats, the Harlem Renaissance and New Journalism, as well as literary responses to major historical events, such as the Great Depression, WW I and WW II, and major social movements of the second half of the century. Prerequisite: ENGL 200. Co-requisite: ENGL 220 or ENGL 221.

ENGL 319*Women and Literature**(3) [H]*

Examines representations of women and womanhood in the work of female authors and the way in which those representations are culturally constructed. The course also offers an introduction of feminist theory and examination of the discourses of women writers. Prerequisite: ENGL 200. Co-requisite: ENGL 220 or ENGL 221.

ENGL 343*Poetry and Poetics**(3) [H]*

Offers a comprehensive study of poetry as a genre and introduces the art of poetics. The course explores various visual, rhythmic and performance aspects of poetry while covering a wide range of poets, styles, traditions, forms and subgenres. Prerequisite: ENGL 200. Co-requisite: ENGL 220 or ENGL 221.

ENGL 345*Creative Writing*

(3) [H]

Involves the craft and practice of creative writing (short fiction, poetry and other types of writing) with extensive student writing throughout the semester. The course includes regular examination of professional models and the writing generated and revised by students. In addition, students are actively involved in developing AUK's arts and literary journal, the AUK Review. Prerequisite: ENGL 102.

ENGL 349*Literature in Translation*

(3) [H]

An aesthetic and cultural evaluation of non-English literature in translation (i.e., Arabic, French, German, Spanish, etc.), focusing on the poetry and fiction of non-English authors. Prerequisite: ENGL 200. Co-requisite: ENGL 220 or ENGL 221.

ENGL 355*Contemporary World Literature*

(3) [H]

Explores the ways in which contemporary literature responds to the complex realities of our world, featuring writing from a variety of national literatures. Prerequisite: ENGL 200. Co-requisite: ENGL 220 or ENGL 221.

ENGL 369*Short Course*

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor. Prerequisite: ENGL 102.

ENGL 375*Rhetorics of Cultural Dissonance*

(3) [H]

Examines the ways in which language creates, reflects, and transforms cultural identity and beliefs and consequently our understanding of local and global relations of power. Through analyses of the contexts from which ideas about identity and culture emerge, students develop a greater understanding of the origins of conflict between and within "East" and "West" and "North" and "South." Sophomore standing or permission of instructor. Prerequisite: ENGL 102.

ENGL 376*Language in the Arab World*

(3) [H], [K]

Introduces students to the sociocultural dimensions of language in the Arab World in relation to national identity, discussing diglossia, code-switching and language variation. Also examines patterns of colonization and explores the widespread use of English in the Arab World and the possible consequences on language planning, literacy development and evolution of Modern Standard Arabic (MSA). Prerequisite: ENGL 102.

ENGL 378*English and Globalization**(3)**[H]*

Explores social, political, linguistic and educational issues related to the spread of English in the world. The effects of colonialism and the role of globalization in the emergence of English as an international language are examined. There is also a focus on the variation in structure of different varieties of English. Prerequisite: ENGL 102.

ENGL 388*Independent Study**(1 - 3)*

Can be repeated for credit with a different topic. Permission of instructor. Prerequisite: ENGL 102.

ENGL 389*Special Topics**(3)*

Can be repeated for credit with a different topic. Prerequisite: ENGL 200. Concurrent: ENGL 220 or ENGL 221.

ENGL 400*Seminar on British Authors**(3) [H]*

An in-depth study of the work of a significant British author or a small group of authors. The study includes the historical and social context, the author's thematic approach and his/her contribution to literature and society. Junior Standing and Permission of Instructor. Prerequisite: ENGL 220 and ENGL 221.

ENGL 401*Seminar on American Authors**(3) [H]*

An in-depth study of the work of a significant American author or a small group of authors. The study includes the historical and social context, the author's thematic approach and his/her contribution to literature and society. Junior Standing and Permission of Instructor. Prerequisite: ENGL 220 and ENGL 221.

ENGL 402*Seminar on History of Theatre and Drama**(3) [H]*

A comparative study of major theatrical works and theories of drama and performance from ancient Greece and the Near East to the modern era, with a focus on works representative of distinct periods and schools of theater and drama. Junior Standing or Permission of Instructor. Prerequisite: ENGL 220 and ENGL 221.

ENGL 405*Seminar on Postcolonial Literature*

(3) [H]

Discussion of literature from former British colonies in Asia, Africa and the Caribbean and from postcolonial diasporas. Emphasis is placed on the common experience of a postcolonial condition across various regions. Orientalism, or the stereotyped image of the East portrayed in representative texts, is a primary theme. Junior Standing and Permission of Instructor. Prerequisite: ENGL 220 and ENGL 221.

ENGL 406*Seminar on Ethnic American Literature*

(3) [H]

Focuses on the critical study of literature written by diverse ethnic American authors from colonial to contemporary times. It may include works by African-, Arab-, Asian-, European-, Hispanic-, and Native Americans. Junior Standing and Permission of Instructor. Prerequisite: ENGL 220 and ENGL 221.

ENGL 415*Literary Theory and Criticism*

(3) [H]

Introduces the conceptual nature of literature, the relationship between literature and criticism and the establishment of literary canons; examines approaches such as formalism, structuralism, post-structuralism, deconstruction and reception theory, post-colonialism, and the respective historical contexts of each. Required for all English majors. Prerequisite: ENGL 220 and ENGL 221.

ENGL 450*Senior Seminar*

(3) [H]

This capstone course is the culminating opportunity for English majors to demonstrate skills of literary interpretation, critical thinking, research and analytical writing. Widely varied topics are addressed in the context of current critical discourse. Students are required to make a scholarly presentation and write a long research paper. Senior standing. Co-requisite: ENGL 450

ENGL 470*Internship in English Language and Literature*

(1 - 3) [H]

An internship experience with the requirement that the student write a report summarizing what the internship job added to his or her knowledge of English Language and Literature. Students are limited to a maximum of 6 internship credit hours. This is a pass/fail course. Junior standing and successful completion of application process. Prerequisite: minimum GPA of 2.5 and: ENGL 102.

ENGL 485*Senior Thesis*

(3) [H]

English majors apply their writing abilities, research skills, and knowledge in an independent study project. Senior standing and

permission of instructor. Prerequisite: ENGL 102.

ENGINEERING (ENGR)

ENGR 200

Engineering Design
(3)

An overview of engineering as a profession, ethics in engineering, team work, reporting, engineering graphics and communication skills for an engineer, reverse engineering, design and build a project, engineering modeling, cost-benefit tradeoffs, product design and performance, business and career planning, and professional practice.

ENGR 210

Engineering Entrepreneurship I
(3)

This course introduces students to Entrepreneurship in Engineering disciplines via investigating the key entrepreneurial area of: (a) intellectual property, its protection and related strategies; (b) evaluating the market viability of new High-Tech and/ or Engineering ideas; (c) shaping these ideas into the right products or services for the right markets; (d) developing strategies for High-Tech/ Engineering product positioning, marketing operations; (e) acquiring the resources needed to start a new venture, e.g., people, financing, strategic partners, etc.; and (f) leadership roles for the founders of High-Tech/ Engineering ventures. Prerequisite: MGMT 201.

ENGR 300

Engineering Ethics
(3)

This course aims at introducing the students to the engineering profession and engineering ethics. As engineering students learn how to design and implement complex systems and take part in the development of their communities, various ethical quandaries and challenges arise. Typical examples of these challenges are related to plagiarism, authorship, intellectual property, and conflict of interest. Resolutions will be required to warrant proper conduct of the engineering profession. The course provides students with essential background on ethical theories and enlightens them on how to deal with unusual engineering issues without undermining the ethical standards. The students knowledge will be enriched by citing general ethical codes recognized worldwide by professional societies. Prerequisite: ENGL 102.

ENGR 310

Engineering Entrepreneurship II
(3)

This course investigates the key elements of planning an entrepreneurial High-Tech and/ or Engineering ventures, including: (a) defining the ventures industry and market; (b) developing strategies for High-Tech/ Engineering product positioning, marketing, distribution, sales, operations, management and development; (c) preparing a financial plan; and (d) dealing with global, regional, and local case studies. Effective written and verbal presentation skills are emphasized throughout the course. Prerequisite: ENGR 210.

ENGR 330

Engineering Economics
(3)

Provides knowledge of economic consequences of engineering decision processes, and methods for evaluation of engineering design alternatives in terms of costs and benefits. Topics include time

equivalence of money, annual cost method, present worth method, rate of return method, depreciation, benefit/cost, break-even analysis, income taxes, equipment replacement, and risk analysis. Sophomore standing or permission of instructor. Prerequisite: MATH 203.

ENGR 369

Short Course

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

ENGR 388

Independent Study

(1 - 4)

Can be repeated for credit with a different topic. Permission of instructor.

ENGR 389

Special Topics

(3)

Can be repeated for credit with a different topic. Permission of instructor.

ENTREPRENEURSHIP STUDIES (ENTR)

ENTR 201

Principles of Entrepreneurship

(3)

The philosophy, motivation and characteristics of entrepreneurship. Social, psychological, economic, and business factors in the success and failure of entrepreneurship; the entrepreneur; identifying and evaluating entrepreneurial opportunities; planning and developing a new business venture; managing the new venture; applications to creation and management of stand-alone ventures and those developed within corporations. Prerequisite MGMT 201.

ENTR 301

Intermediate Entrepreneurship

(3)

Study of the nature and special conditions related to proprietorships, partnerships and small business enterprises. Sophomore standing or permission of instructor. Prerequisite: ENTR 201.

ENTR 313

Managing Entrepreneurial Ventures

(3)

This course uses a managerial approach to develop understanding of the risks and rewards associated with entrepreneurial activities, and build necessary skills to manage a business start-up. Students will generate a viable business idea, conduct a feasibility analysis and prepare and present a comprehensive business plan. The focus will be on Kuwait and MENA. Prerequisite: ACCT 205, FINC 232 and MRKT 200.

ENTR 369*Short Course**(1 - 3)*

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

ENTR 388*Independent Study**(1 - 3)*

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

ENTR 389*Special Topics**(3)*

Can be repeated for credit with a different topic. Permission of instructor.

ENTR 470*Internship in Entrepreneurship**(1 - 3)*

An internship experience with the requirement that the student write a report summarizing what the internship job added to his or her knowledge of entrepreneurship and related fields. Students are limited to a maximum of 3 internship credit hours for any major and 6 credit hours overall. This is a pass/fail course. Senior standing and permission of instructor. Prerequisites: ENTR 201 and a minimum GPA of 2.25.

ENVIRONMENTAL STUDIES (ENVS)

ENVS 101*Introduction to Environmental Studies**(3) [S]*

Introduction to the major issues and themes within the field of Environmental Studies. Topics may include endangered species, air/water pollution, energy, global warming, environmental law/ justice, ethics and policy.

ENVS 215*Environmental Data Analysis**(3) [S]*

This course will introduce students to statistics, data analysis, and probability to be able to evaluate and interpret environmental data. Topics will include: Statistics and data analysis; Frequency tables, bar charts, mean, standard deviation, and skewness; Linear regression; and Probability. Prerequisite: MATH 095.

ENVS 220*Energy and the Environment*

(3) [S]

Study of key physics principles as related to environmental issues, including: Energy forms; Energy recourses and conversions; Past and present patterns of energy use; Projection of future demand and supplies of energy; Role and method of physics in fostering rational evaluations of environmental problems and in searching for potential solutions; Resources and technologies of future energy alternatives. Prerequisite: PHYS 101 or PHYS 105.

ENVS 230*Environmental Geology*

(3) [P]

Fundamental earth science concepts are used to assess the impact of increasing global population and development on earth's natural resources and also examine how natural processes affect human activities. Topics include volcanic eruptions, earthquakes, flooding, tsunamis, soil erosion, landslides, stream flooding, and rock-falls.

ENVS 305*Environmental Health*

(3) [P]

An overview of environmental issues affecting human health and survival. Students will be introduced to biological and chemical toxins in the general environment, environmental epidemiology, and relevant environmental regulations. Attention will be paid to environmental issues at home, in work settings, the community, and in the global context. Sophomore Standing or permission of instructor. Prerequisite: BIOL 105.

ENVS 310*Environmental Ethics*

(3) [S]

This course examines normative issues in the study of the environment. Students will learn basic ethical concepts and theories and how to apply them to specific environmental concerns. Students will be asked to develop arguments to defend their own respective views regarding the environment and to develop viewpoints reflecting thoughtful and scholarly consideration of human duties, both individual and social, to the environment. Sophomore standing or permission of instructor. Prerequisite: ENGL 101. [Cross-listed with PHIL 310]

ENVS 320*Global Environmental Policy*

(3) [S]

A course that seeks to provide a broad overview of the key concepts, actors, and issues related to global environmental policy. This course outlines the evolution of environmental policy in facing global environmental challenges and how such policies have become inherently intertwined with government policy and business practice. Junior or senior standing.

ENVS 325*Health, Environment & Armed Conflict*

(3) [S]

This class explores the interrelationship between health, the natural environment and armed conflict. It does so by focusing on conflict over access to and use of the environment as well as examining ideas about "health" in various parts of the world. Sophomore standing. Prerequisite: ENVS 101.

ENVS 340

The Gendered Environment

(3) [S]

This multidisciplinary course affords students the opportunity to become familiar with the key debates and theoretical approaches involved in understanding environmental issues from a gender and justice perspective. Sophomore standing. Prerequisite: ENVS 101.

ENVS 369

Short Course

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

ENVS 388

Independent Study

(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor.

ENVS 389

Special Topics

(3)

Can be repeated for credit with a different topic. Permission of instructor.

FINANCE (FINC)

FINC 232

Financial Management

(3)

An introduction to Financial Management and pro forma financial statements. Topics include: time value of money, security valuation, capital budgeting, cost of capital, risk and return, and international finance. Prerequisite: MATH 103 or 110 or 201. Concurrent: ENGL 102 and CSIS 110.

FINC 332

Financial Management I

(3)

Financial statement analysis, pro forma financial statements, time value of money, discounted cash flow, stock and bond valuation, net present value. Sophomore standing or permission of instructor. Prerequisites: MATH 103 or MATH 110 or MATH 201, and ENGL 102 and ACCT 201.

FINC 341

Corporate Finance

(3)

Capital asset pricing model, cost of capital, capital structure and dividend policy. Prerequisites: FINC 232 and BUS 209.

FINC 343*Financial Services Management*

(3)

The course will focus on operations in financial services management including applications of competitive strategies and explorations of opportunities in various financial services sectors including banking, insurance, and personal finance planning. The course will also examine this sector in the context of the Kuwait financial services companies. Prerequisite: FINC 232 and BUS 209.

FINC 345*Investments and Security Analysis*

(3)

This course will focus on the financial theories and empirical evidence useful for investment decisions based on risk and returns. It covers optimal portfolio choice, asset pricing models, fixed-income securities, funds' performance measurement, and a brief introduction to behavioral finance which studies how investor psychology may affect their investment decisions and asset prices in the market. Junior standing. Prerequisite: FINC 232 and BUS 209.

FINC 350*Islamic Banking and Finance*

(3)

In this course students will be introduced to Islamic law pertaining to financial issues and comparison with conventional financial and banking systems. Topics Include: Islamic perspectives on finance and banking, *riba* (interest), finance-based products securitization, bonds and insurance, and risk sharing. Prerequisite: FINC 232 and BUS 209.

FINC 355*Financial Institutions of the Gulf*

(3)

This course focuses on the financial institutions of Kuwait and the Arabian Gulf. It covers the role of the central bank and regulatory authorities, commercial bank operations, securities markets and public-private financing. FINC 232 and BUS 209.

FINC 365*International Finance*

(3)

International Finance addresses financial issues specific to cross-border transactions. It focuses on exchange rates and spot and future markets. It details the mechanics of covered interest arbitrage. Prerequisites: FINC 232 and BUS 209.

FINC 369*Short Course*

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Junior standing.

FINC 388

Independent Study
(1 - 3)

Can be repeated for credit with a different topic. Junior standing.

FINC 389

Special Topics
(3)

An analysis of contemporary issues in Finance. Can be repeated for credit with a different topic. Junior standing.

FINC 413

Finance Capstone: International Finance, Financial Markets and Institutions
(3)

A capstone course designed for a student's last semester in the university which may include analyses of cases, more in-depth study of specialized topics, current events in finance, financial analysis, and/or financial institutions. Prerequisites: FINC 341, FINC 345, and FINC 355.

FINC 445

Portfolio Management
(3)

This course develops modern portfolio theory and applies it to pricing both individual assets and portfolios of assets. Topics include the Markowitz portfolio selection model, the capital asset pricing model, arbitrage pricing theory, options. Futures bonds, portfolio performance measurement, and issues of market efficiency. Senior standing. Prerequisites: FINC 332 and FINC 341 and FINC 345.

FINC 470

Internship in Finance
(1 - 3)

An internship experience with the requirement that the student write a report summarizing what the internship job added to his or her knowledge of Finance and related fields. Students are limited to a maximum of 3 internship credit hours for any major and 6 credits overall. Permission of instructor and senior standing.

FRENCH (FRNC)

FRNC 101

Introduction to French I
(3) [H]

The course is designed for beginners. The objective of this course is to provide students with necessary skills in oral and written communication. The course is almost entirely taught in French.

FRNC 102

Introduction to French II
(3) [H]

This course continues to reinforce communication skills with more emphasis placed on reading and writing texts. It will develop the ability to communicate with accurate pronunciation and intonation.

Students will be exposed to French culture with the use of video and other authentic material. Students may not enroll and will not receive credit for a language-learning course taken below the level of the language-learning course into which they were tested. Prerequisite: FRNC 101 or permission of instructor.

FRNC 201

Intermediate French

(3) [H]

This course focuses on active communication skills, while working on spontaneous conversations related to daily-life topics. More emphasis is placed on writing and using a variety of formats with increasing control of grammar. Students will perfect their knowledge of French society through reading newspaper articles and literary texts. Students may not enroll and will not receive credit for a language-learning course taken below the level of the language-learning course into which they were tested. Prerequisite: FRNC 102 or permission of instructor.

FRNC 202

Intermediate French II

(3) [H]

While still focusing on oral communication, more emphasis will be placed on reading short texts and writing short paragraphs. Students will develop a strong knowledge of French grammar (verbs in present, past, future and subjunctive), and a strong vocabulary base. Prerequisite: FRNC 201 or permission of instructor.

FRNC 333

Language and Civilization

(3) [H]

An advanced language course that improves student's oral, reading, and writing skills through an examination of French society.

Themes covered include family, education, arts, gastronomy, politics, and immigration. Class discussions will be based on literary readings, articles from French newspapers internet materials, songs, a selection of French films, and field trips. Sophomore standing and permission of instructor.

FRNC 369

Short Course

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

FRNC 388

Independent Study

(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor.

FRNC 389

Special Topics

(3)

Can be repeated for credit with a different topic. Permission of instructor.

FRNC 399

French Study Abroad
(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor.

GRAPHIC DESIGN (GDES)

GDES 110

Digital Foundations
(3)

This course introduces students to fundamental principles and applications of design, emphasizing critical and cultural awareness of design issues and developing of technical skills. The notion of creative problem-solving is particularly emphasized. Students develop expertise in major industry standard software packages. This course lays the foundation for further study of design. A lab fee may be required. [Cross-listed with COMM 110]

GDES 204

Digital Photography I
(3)

This course provides an introduction to digital photography and digital camera operations, covering lighting, composition, exposure and the fundamentals of traditional photographic concepts. Students will use digital cameras to take photos that meet the requirements of a series of assignments designed to develop specific skills, and stimulate the students' creative capacities for personal expression, communication and self-understanding. Concurrent: GDES 110 or COMM 110.

GDES 208

Film Production I
(3)

Introduces students to basics of cinematic storytelling through narrative genres and documentaries. Examines the basics of script-writing, directing, cinematography, and editing. Develops skills in all areas of the craft, and explores both the creative and the technical aspects of production. Includes a short project. Familiarizes students with the nature of filmmaking through lectures and working experiments with traditional narrative filmmaking, documentary, and new media. [Cross-listed with COMM 208]

GDES 220

Graphic Design I
(3)

An introductory course to the field of graphic design and visual problem solving. Students will learn basic design principles and elements of design, composition, form, typography, and the historical context is introduced in this course. Provides practical experience in essential studio processes and procedures, critiques, and group discussions. Concurrent: GDES 110 or COMM 110, ART 121, and ART 120 or ART 115 and GDES 102.

GDES 221

Typography I
(3)

An introduction to typography as both language and tool, one through which a graphic designer

can communicate visual hierarchy, verbal information, form, and meaning. This course explores type design, the study of letterforms, an introduction to the historical

and modern development of the alphabet, and the study of grid structures. Prerequisites: ART 101, ART 121, GDES 110 or COMM 110, and ART 120 or ART 115 and GDES 102.

GDES 242

Digital Imaging I

(3)

This course enhances student capabilities in digital image manipulation, vector graphics creation, layout design and time-based media. A lab fee may be required. Pre-requisites: GDES 110 or COMM 110.

GDES 260

Illustration I

(3)

This introductory course provides students a foundation in the practices and materials of illustration. Students will address visual communication strategies and solutions through hand-rendered and digital illustrative means. Prerequisites: GDES 110 and ART 121.

GDES 304

Digital Photography II

(3)

This course provides students with the opportunity to create advanced digital photography using sophisticated lighting, composition, and exposure techniques. Students explore traditional and experimental photographic concepts to better understand their own photographic vision. Pre-requisite: GDES 204.

GDES 315

History of Design

(3)

This course explores the evolution of graphic design from past to present. Prerequisite: ART 102.

GDES 320

Graphic Design II

(3)

This intermediate studio course is a comprehensive study of graphic design through the integration of typography and imagery; from topic selection to research; and from concept building to the visualization of content. Students will enhance layout skills, and work with alternative materials. Class time will be devoted to lectures, projects and critiques will be developed. Permission of Instructor (E- Portfolio mid-review). Prerequisite: GDES 220 and GDES 221.

GDES 321

Typography II

(3)

This course further explores the sequence of type-oriented assignments and projects; students explore a variety of advanced functional and formal typographic issues. Perceptual, emotional, and stylistic considerations of typographic usage are also covered. This is a studio course. Prerequisite: GDES 220 and GDES 221.

GDES 330

Print Production

(3)

This course explores the various printing technologies currently available for graphic designers, with an emphasis on the Off-Set printing process. Pre-press, printing, post-production, and all the supporting services offered by printing houses, will be thoroughly investigated throughout this course. Prerequisites: GDES 220 and GDES 221.

GDES 337

Environmental Design

(3)

A studio course that explores way finding, storytelling, exhibit and information design in built and natural environments. Students will learn how to use the blend of two and three-dimensional design to move people and/or vehicles through spaces. Projects may include the study of zoos, museums, sport complexes, hospitals, or airports. Junior standing. Prerequisite: GDES 320.

GDES 342

Digital Imaging II

(3)

Inspiration and storyboard are challenged to push the envelope of the traditional parameters expected during Image Production. The students blend different styles to produce aesthetically sound pieces. Different Image tracks may be chosen to focus on for the majority

of the semester. A lab fee may be required. Prerequisite: GDES 242.

GDES 351

Web Design

(3)

This course explores the process of designing and building web sites, as well as creating graphics, animations and rich content for the web. It also incorporates lectures relating to Internet issues and the different web-based media forms being utilized those days.

Prerequisite: GDES 110 or permission of instructor.

GDES 360

Illustration II

(3)

This advanced course in illustration further investigates the conceptual relationship between text and image. Students will develop complex projects for existing and emerging markets through a variety of digital and analog media. Prerequisite: GDES 260.

GDES 369

Short Course

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

GDES 388

Independent Study
(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor.

GDES 389

Special Topics
(3)

Can be repeated for credit with a different topic. Permission of instructor.

GDES 404

Professional Practice
(3)

The course is designed to prepare students for professional practice in graphic design. It is a guide to business aspects of design including best practices in business processes, self-promotion, negotiation and pricing, ethical standards and the designer's responsibility of practice. Prerequisite: GDES 320.

GDES 420

Graphic Design III
(3)

This advance course further investigates system design, research analysis and development of a brand. Students will work in a collaborative environment, in an intense investigation of visual communication, critique session, group discussions, presentations and field trips. This is a studio course. Senior standing. Prerequisites: GDES 320 and GDES 321.

GDES 421

Typography III
(3)

This advance course further investigates typographic form, history, hierarchy, context and sequence of information using image and type relationships. Lectures, critiques and individual in-class explorations are used to further these ideas. This is a studio course, senior standing. Prerequisites: GDES 321 and GDES 320.

GDES 452

3D Modeling and Animation
(3)

This course will introduce principles and techniques used for creating three-dimensional content in virtual space. Students will learn principles of model creation, texture manipulation, scene rendering and animation to enable them to conceptualize and produce meaningful and artistic visualizations. The class will also explore the implications of the work produced as students engage in mutual critique. A lab fee may be required. Junior standing.

GDES 453

Motion Graphics
(3)

In this advance level course, students experiment their learning outcomes on form and content through manipulation of movement,

time, sequence and sounds. Students will learn and create visual effects, wide range of application in broadcast, film and video-based communication. This is a studio course. Prerequisite: GDES 242.

GDES 470

Internship in Graphic Design
(1 - 3)

The GDES Internship provides students the opportunity to work in career-related fields for academic credit. A creative paper submission is expected upon the completion of the internship. Students are limited to a maximum of 6 internship credit hours of which only 3 count toward the degree requirement. This is a pass/fail course. Junior standing and permission of instructor.

GDES 490

Capstone
(3)

The Capstone course is designed to teach GDES students how to visualize the complex intersection between personal voice, conceptual understanding, and the use of research for a graphic design exhibition. The course is largely self-directed and students are expected to select and investigate a topic using design as a means to present their findings. Pre- requisite: GDES 420.

GENERAL SCIENCE (GSCI)

GSCI 100

Introduction to Sciences and Technology
(1 OR 3) [P]

This course is designed to provide foundational knowledge in the Sciences and foster an appreciation of modern technologies that play a role in everyday life. Topics vary and may include biology, chemistry, electronics, physics, nanotechnology, renewable, energy technologies, satellite imaging and global positioning systems, and others.

HEALTH AND FITNESS (HFIT)

HFIT 101

Introduction to Health and Wellness
(1) [F]

An introduction to the physiological, social, and psychological factors in lifelong health and fitness; self-responsibility for total wellness. Introduction to wellness concerns such issues as disease prevention, stress management and behavioral and mental health. Occasional.

HFIT 103

Nutrition and Health
(3) [F]

An analysis of the role and value of nutrition in maintaining health, mental health, and physical fitness; diet and nutrition; special needs of overweight and underweight individuals; food mythologies.

HFIT 110

Physical Activity
(1) [F]

This course offers students an opportunity to participate in physical activities/sports such as aerobics, yoga, basketball, soccer, volleyball or other physical activities. Occasional.

HISTORY (HIST)

HIST 105

World History Since 1900

(3) [S]

Examines key political, social, and cultural developments around the world in the 20th century, with emphasis on how ideas and ideologies have both shaped and been shaped by major historical events. Topics include the two world wars, revolutions, the Cold War, decolonization and global social change.

HIST 110

Twentieth Century Middle East

(3) [S]

Examines key events and trends in the Middle East in the twentieth century. Topics include ideologies and practices of colonial control, Arab nationalism, the emergence of new social class post-colonial, nation building, the Arab Israeli conflict, the Iranian revolutions, and the Gulf Wars.

HIST 201

History and Politics of Kuwait

(3) [S]

Provides an introduction to the political, economic and social history of Kuwait. Topics include relations with the Ottoman and British Empires, the pre-oil maritime economy, oil modernization, the constitution, modern state-building, and the Iraqi invasion.

HIST 202

History and Politics of the Iranian World

(3) [S]

Reviews the historical and political development of the Iranian world since the advent of Islam in the 7th century. Topics include the emergence of modern Iran as a national state, and the advent of Shi'ism as the state religion in the 16th century.

HIST 204

European History until the French Revolution

(3) [S]

Examines the major themes of European history before the French revolution. Topics include ancient Greece and Rome, the rise of Christianity, the High Middle Ages, the Renaissance and Reformation, the wars of religion, the rise of independent states and overseas expansion.

HIST 205

History of Modern Europe

(3) [S]

Analyses the development of European social, political and economic history from the French and industrial revolutions to the twentieth century. Topics include the rise of absolutism, the Enlightenment and democratic revolutions, industrialization and the emergence of liberalism, capitalism and socialism, the two world wars and the Cold War.

HIST 221

Survey of Gulf History

(3) [S]

Examines key issues in the politics and society of the Gulf region before and after the discovery of oil which emphasis on themes of regional unity versus political fragmentation. Topics include the region's maritime history, British imperialism, oil modernizations state building and regional politics after independence.

HIST 289

Topics in World History

(3) [S]

Analyses the rise and development of the modern world from various regional and temporal perspectives. Topics will vary. Can be repeated for credit with different topic.

HIST 305

History of the Islamic World 622-1800

(3) [S]

Survey of Islamic political, social, and intellectual history from the time of the Prophet until 1800. It offers an introduction to the doctrines of Islam and Islamic institutions, influential historians, and covers major themes and disciplines that have informed the writing of Islamic history and their relation to law, theology, politics, ethics, and science. Sophomore standing or permission of instructor. Prerequisite: any 100- or 200-level HIST or AMST course, or IR 204 or 205.

HIST 307

Arab History in the late Ottoman Period: 1800-1922

(3) [S]

History of the modern Arab world beginning with the 1798 Napoleonic invasion of Egypt and ending with the 1923 Treaty of Lausanne. The course covers the decline of the Ottoman Empire in the Arab provinces, the rise of the European imperialism, Mohammed Ali, Arab integration into global capitalism, and the rise of pan-Islamism, pan-Arabism, and Arab-Nationalism. Sophomore standing or permission of instructor. Prerequisite: any 100- or 200-level HIST or AMST course.

HIST 309

Twentieth Century Arab History

(3)

Contemporary Arab history including European colonialism, struggles for independence, Zionism and the colonization of Palestine, Arab nationalism, Arab socialism, rise of oil revenues, the rise of political Islam, and current conflicts in the region. Prerequisite: any 100- or 200-level HIST or AMST course.

HIST 311

Ottoman History (1400-1923)

(3) [S]

The course covers the early history of Ottoman growth and expansion, institutions and bureaucracy, the development of the

devshirme and the janissary corps, responses to European expansion and intervention, the Tanzimat reforms, the question of Ottoman "decline," the rise of Turkish and other nationalisms, and WWI and imperial disintegration. Sophomore standing or permission of instructor. Prerequisite: any 100- or 200-level HIST or AMST course.

HIST 317

Topics in English / British History

(3) [S]

Explores the history of England and Britain from diverse perspectives. Topics may include Parliament, Common Law, the civil war, the question of kingship, the conflict of church and state, Constitutional monarchy, the Industrial Revolution, the growth of the British Empire, 20th century conflicts, globalization, and the creation of the United Kingdom. Pre-requisite: IR 101.

HIST 319

The British Empire

(3)

The rise, structure, and dynamics of the British Empire with special emphasis on its policies, actions and impact on India, the Arabian Peninsula and the rest of the Middle East. Prerequisite: any 100- or 200-level HIST or AMST course.

HIST 369

Short Course

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

HIST 388

Independent Study

(1 - 3)

A research and writing project to be determined in consultation with the instructor. Can be repeated for credit with a different topic. Senior standing or permission of instructor.

HIST 389

Special Topics

(3)

Can be repeated for credit with a different topic. Permission of Instructor. Pre-requisite: IR 101.

HIST 401

Economic History: Twentieth Century

(3)

Historical investigation of economic development. Comparison of European and the Third World development. Junior class standing. Prerequisite: any 100- or 200-level HIST course, or AMST course.

HIST 430

Oral History

(3)

A seminar that critically examines current issues via the method of oral history. Additionally, this seminar will enable students to apply methods of research and analysis from various university programs as they prepare for and analyze interviews. The course will involve participation in at least two oral history projects over the course of the semester. Prerequisite: COMM 101 or any HIST or AMST 100- or 200-level course.

HUMAN RESOURCES (HR)

HR 205

Human Resource Management

(3)

This course examines theories and practice of human resource management in local, regional, and global contexts. The course focuses on key aspects of human resources, planning, and their implications on public and/or business policy. It also studies major models that shape human resources development. Prerequisite: MGMT 201.

HR 305

Human Resource Management

(3)

This course presents potential leaders and managers the fundamental knowledge needed for an effective deployment of modern HRM practices in various business settings. The course builds and focuses on the theoretical knowledge of factors, elements and applications encompassed not only in the whole spectrum of the employment life cycle (recruitment and selection, training and development, performance evaluation, work design, compensation and employee relations) but also in strategic issues related to HR planning, ethics and workforce diversity, and international HRM. Prerequisite: MGMT 201.

HR 310

Recruiting and Staffing

(3)

Focus is on successful identification, recruitment, selection, and promotion of employees. Topics include external and internal recruitment, human resource planning, job analysis, and employee selection including testing and interviewing, as well as validation procedures. Prerequisite: HR 205.

HR 311

Total Rewards: Compensation

(3)

A variety of compensation methods are examined and their relationships to pay structures and employee performance. Topics include total compensation, design of pay levels, benefit options, job evaluation techniques, incentive plans and administration. Prerequisite: HR 205.

HR 325

Work and Well-being

(3)

Focus is on approaches to promoting well-being in the workplace. Topics include organizational health programs, career development, job satisfaction, safety, risk management, and labor relations. Prerequisite: HR 205.

HR 344

Managing Conflict

(3)

Develop conflict management skills to facilitate relationships in organizations. Prevention as well as management of disputes is covered on the individual, group, and organizational levels. The course takes a stakeholder approach. Prerequisite: HR 205.

HR 350*International HR Management*

(3)

Focus is on managing human resources in international organizations. The course covers the context of international human resources management, globalization, and cross-border mergers and alliances. Emphasis is on international approaches to employee recruiting, staffing, development, performance management, and union relations. Prerequisite: HR 205.

HR 388*Independent Study*

(1 OR 3)

Can be repeated for credit with a different topic. Permission of instructor.

HR 389*Special Topics*

(3)

Topics vary by semester. Each offering provides students the opportunity to study a topic either not addressed in other HR courses or one previously addressed, but in greater depth. Prerequisite: HR 205.

HR 413*Human Resource Management Capstone*

(3)

Focus is on an integration of human resource management techniques to develop a strategic perspective. The course emphasizes human resource development approaches and performance management systems aimed at achieving an effective interface with the external environment of organizations. Senior standing. Prerequisite: HR 205.

HR 470*Internship in Human Resources*

(1 OR 3)

An internship experience with the requirement that the student writes a report summarizing what the internship added to his or her knowledge of Human Resource Management and related fields. Students are limited to a maximum of 3 internship credit hours for any major and 6 credits overall. Permission of instructor and senior standing.

INTERNSHIP FREE ELECTIVE- COMM (HUCM)

HUCM 473*Intern Free Elective -COMM*

(1 - 3)

Supervised experience designed to enhance intellectual development through application of knowledge in an occupation. Requirements include: weekly log and final report explaining what the internship added to the student's knowledge in an approved discipline. A Pass/No Pass Course requiring Junior standing and permission of instructor. Prerequisite: Minimum GPA of 2.00.

INTERNSHIP FREE ELECTIVE- ENGL (HUEL)

HUEL 473

Internship for Free Elective Arts & Humanities
(1 - 3)

Supervised experience designed to enhance intellectual development through application of knowledge in an occupation. Requirements include: weekly log and final report explaining what the internship added to the student's knowledge in an approved discipline. A Pass/No Pass Course requiring Junior standing and Permission of instructor. Prerequisite: Minimum GPA of 2.00.

INTERNSHIP FREE ELECTIVE- ARGD (HUGD)

HUGD 473

Intern for Free Elective-GDES
(1 - 3)

Supervised experience designed to enhance intellectual development through application of knowledge in an occupation. Requirements include: weekly log and final report explaining what the internship added to the student's knowledge in an approved discipline. A pass/no pass course requiring junior standing and permission of instructor. Prerequisite: minimum GPA of 2.00.

HUMANITIES (HUMN)

HUMN 100

Introduction to Humanities
(1 OR 3) [H]

This course is a basic introduction to the study of the Humanities using an interdisciplinary approach. The course provides information relating to concepts, studies and facts in the Humanities. Topics vary and may include philosophy, architecture, literature, music, theatre, drama, religion, and/ or art.

INTENSIVE ENGLISH PROGRAM (IEP)

IEP 080

Listening and Speaking I
(0)

This course focuses on developing listening and speaking skills necessary for success in the academic environment. Utilizing the lecture method, pair work, group activities, and student-instructor conferences, the student will engage with academically-oriented lectures and other material to improve comprehension, note-taking skills, vocabulary, correctness, and fluency. Successful completion of this course will prepare students for entry into Listening and Speaking II. Exit exam required. Credit earned cannot be used for graduation.

Prerequisite: Accuplacer LPT 62-85 or WP 1-3. Concurrent courses: IEP 081, IEP 082, IEP 083, IEP 084, IEP 085, IEP 086, IEP 087.

IEP 081*Reading I**(0)*

This course focuses on refining reading skills necessary for success in the academic environment. The student will be guided through methods of appropriately expanding and challenging ideas contained within academic texts with a particular focus on reading comprehension skills and employing different reading strategies. Students will demonstrate their knowledge and comprehension of reading materials through a class project(s) and/or presentations. Successful completion of this course will prepare students for entry into Reading II. Exit exam required. Credit earned cannot be used for graduation. Prerequisites: ACCUPLACER LPT 62-85, WP 1-3. IELTS Ave. 4-4.5 (Reading 4.5, Writing 4), or TOEFL iBT Ave. 31-34 (Reading 3, Writing < 11). Concurrent courses: IEP 090, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096, IEP 097.

IEP 082*Presentations I**(0)*

The student develops public speaking skills and is introduced to the additional skills of principles of demonstration and primary research for presentations at the intermediate level. Emphasis is on reporting and discussing information based on observations

outside the self in the execution of formal presentations. Successful completion of this course will prepare students for entry into Presentations II. Credit earned cannot be used for graduation. Prerequisite: Accuplacer LPT 62-85 or WP 1-3. Concurrent courses: IEP 080, IEP 081, IEP 083, IEP 084, IEP 085, IEP 086, IEP 087.

IEP 083*Writing I**(0)*

This course focuses on developing writing skills necessary for success in the academic environment. Under the close supervision of the instructor, the students will develop basic academic writing skills with the focus on creating unified paragraphs using a variety of sentences. The students will also develop and practice applying basic proofreading skills and produce paragraphs free of most common grammatical/mechanical errors. Successful completion of this course will prepare students for entry into Writing II. Exit exam required. Credit earned cannot be used for graduation. Prerequisites: ACCUPLACER (LPT 62-85, ESL Write Placer 1-3), IELTS Ave. 4-4.5 (Reading 4.5, Writing 4), or TOEFL iBT Ave. 31-34 (Reading 3, Writing <11). Concurrent courses: IEP 080, IEP 081, IEP 082, IEP 084, IEP 085, IEP 086, IEP 087.

IEP 084*Grammar Extension I**(0)*

This course focuses on developing students' ability to comprehend and use intermediate grammatical structures, with focus on syntactically and semantically sound sentence structures. It offers practice in recognizing, improving and correcting them in written and spoken English in an academic context. Credit earned cannot be used for graduation. Successful completion will prepare students for entry into the SEM II Advanced Grammar. Prerequisites: ACCUPLACER LPT 62-85, ESL Write Placer 1-3. Concurrent courses: IEP 080, IEP 081, IEP 082, IEP 084, IEP 085, IEP 086, IEP 087.

IEP 085*Guided Reading I**(0)*

This course is based on the main principle of Guided Reading, which aims at giving students greater reading opportunities in a supportive learning environment. Focus is placed on students' comprehension and fluency of graded readers. This program has proven to support the English language skills necessary for success in an academic environment. Credit earned cannot be used for graduation. Prerequisite: Accuplacer LPT 62-85 or WP 1-3. Concurrent courses: IEP 080, IEP 081, IEP 082, IEP 083, IEP 084, IEP 086, IEP 087.

IEP 086

Learning Lab I

(0)

In the Learning Lab, students will receive personalized tutoring and writing assistance by course Instructors as needed. Students in the Learning Lab will receive one on one and/or group tutoring and writing assistance by course Instructors as needed. Students may also receive short lectures or presentations as needed. Credit earned cannot be used for graduation. Prerequisite: Accuplacer LPT 62-85 or WP 1-3. Concurrent courses: IEP 080, IEP 081, IEP 082, IEP 083, IEP 084, IEP 085, IEP 087.

IEP 087A

Novel vs Movie I

(0)

In this elective course, first semester students will strengthen their academic writing and critical thinking skills by analyzing and describing the differences between a book and its adapted movie. Students will read the level-appropriate book (fiction or non-fiction) and summarize it in a written synopsis. They will then view the film adaptation of the book while taking notes on the differences in plot, character, and theme between the book and film. Throughout the semester, students will synthesize and paraphrase both book and film in the creation of paragraphs and one comprehensive contrast essay. Credit earned cannot be used for graduation. Prerequisite: Accuplacer LPT 62-85 or WP 1-3. Concurrent courses: IEP 080, IEP 081, IEP 082, IEP 083, IEP 084, IEP 085, IEP 086.

IEP 087B

Contemporary Issues I

(0)

This course builds first semester students' confidence in conversation and speaking through the use of a variety of learning techniques, including group and pair exercises. While primarily a conversation course, it will also reinforce listening and presenting skills, as well as grammar and vocabulary. Pronunciation and intonation will be improved by listening to audio samples. Students will select a contemporary issue dealing with business, technology, the arts, or current events, research their chosen topic, converse about it with peers, and in the final stage deliver a presentation. Peer evaluation of presentations will be practiced. Textbook activities will be supplemented by in-class conversation practice, audio clips, songs, articles, short stories, movie clips, and listening dictation. Credit earned cannot be used for graduation. Prerequisite: Accuplacer LPT 62-85 or WP 1-3. Concurrent courses: IEP 080, IEP 081, IEP 082, IEP 083, IEP 084, IEP 085, IEP 086.

IEP 087C

Journalism I

(0)

This course focuses on improving the four English skills (reading, writing, listening and speaking) through an introduction to Journalism. Students will engage in level appropriate mini-lectures, pair and group work, and student-instructor conferences. First semester students will have the opportunity to improve their language skills by reading and writing level appropriate magazine and newspaper articles, by interviewing people on and off campus, and by writing pieces for the IEP magazine and/or newspaper to publish. Credit earned cannot be used for graduation. Prerequisite: Accuplacer LPT 62-85 or WP 1-3. Concurrent courses: IEP 080, IEP 081, IEP 082, IEP 083, IEP 084, IEP 085, IEP 086.

IEP 087D*English Obsession I**(0)*

This course is designed to improve first semester students' English language proficiency in a fun, engaging, and positive learning environment by involving them with print and non-print media and activities that demonstrate students' abilities to think critically. They will work independently, in groups, and as a whole class to maximize and vary their learning. Lively discussions, discovery through writing, and participation in campus life are among the highlights of this course. Credit earned cannot be used for graduation. Prerequisite: Accuplacer LPT 62-85 or WP 1-3. Concurrent courses: IEP 080, IEP 081, IEP 082, IEP 083, IEP 084, IEP 085, IEP 086.

IEP 087E*English Skills through Drama I**(0)*

This course is designed for first semester students and focuses on strengthening all four English skills (reading, writing, listening and speaking) through theater performance and acting practice in pairs and small groups. Students will compare multiple short play scripts to improve their reading while also discovering the conventions of script writing. Composing and editing their own play script will improve students' writing and critical thinking skills. Listening and speaking will be strengthened through rehearsals and the live performance of their final drama project at the end of the semester. Credit earned cannot be used for graduation. Prerequisites: ACCUPLACER (LPT 62-85, ESL Write Placer 1-3), IELTS Ave. 4-4.5 (Reading 4.5, Writing 4), or TOEFL iBT Ave. 31-34 (Reading 3, Writing < 11). Concurrent courses: IEP 080, IEP 081, IEP 082, IEP 083, IEP 084, IEP 085, and IEP 086.

IEP 087F*Bring Reading to Life I**(0)*

In this innovative course, first semester students will work both collaboratively and individually to bring reading to life through the arts. By engaging in a novel through drawing, music, drama, and/or movement, students will enhance their reading comprehension as well as their vocabulary, grammar, listening, and speaking while also deepening their understanding of novel plot, character, and theme. Script-writing will hone students' critical thinking, summarizing/paraphrasing, and conversational skills. The course will conclude with an artistic and/or dramatic celebration of a literary work for the AUK community and a digital scrapbook of the semester's multi-media creative process. Credit earned cannot be used for graduation. Prerequisite: Accuplacer LPT 62-85 or WP 1-3. Concurrent courses: IEP 080, IEP 081, IEP 082, IEP 083, IEP 084, IEP 085, IEP 086.

IEP 090*Listening and Speaking II**(0)*

This course focuses on refining listening and speaking skills necessary for success in the academic environment. Utilizing the lecture method, pair work, group activities, and student-instructor conferences, the student will engage with academically-oriented lectures and other material to improve comprehension, note-taking skills, vocabulary, correctness, and fluency in the execution of formal presentations. Exit exam required. Credit earned cannot be used for graduation. Prerequisites: Successful completion of IEP SEM 1 or ACCUPLACER (LPT 86-105, ESL Write Placer 4-5), IELTS Ave. 5-5.5 (Reading 5-5.5, Writing 4.5), or TOEFL iBT Ave. 35-59 (Reading 4-12, Writing 12-13). Concurrent courses: IEP 091, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096, and IEP 097.

IEP 091

Reading II

(0)

This course focuses on refining reading skills necessary for success in the academic environment. The student will be guided through methods of appropriately expanding and challenging ideas contained within academic texts with a particular focus on reading comprehension skills and employing different reading strategies. Students will demonstrate their knowledge and comprehension of reading materials through a class project(s) and/or presentations. Successful completion of this course will prepare students for entry into ENGL 100. Credit earned cannot be used for graduation. Prerequisites: Successful completion of IEP SEM 1 or ACCUPLACER (LPT 86-105, ESL Write Placer 4-5), IELTS Ave. 5-5.5 (Reading 5-5.5, Writing 4.5), or TOEFL iBT Ave. 35-59 (Reading 4-12, Writing 12-13). Concurrent courses: IEP 090, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096, IEP 097.

IEP 092

Presentations II

(0)

The student refines the public-speaking skills introduced and developed in Semester 1 and is introduced to the additional skills of reporting on controversial information without bias, assembling and organizing relevant information for persuasion, and commenting on the nature and relevance of support in the arguments of others for presentations at the high-intermediate to low-advanced level. Emphasis is on orally presenting information derived from written or visual texts. Successful completion of this course will prepare students for entry into ENGL 100. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 093, IEP 094, IEP 095, IEP 096, IEP 097.

IEP 093

Writing II

(0)

This course focuses on refining writing skills necessary for success in the academic environment. Under the close supervision of the instructor, students will improve their English writing skills with a focus on creating well-developed paragraphs and short essays. Through the writing process, students will develop their critical thinking skills by analyzing and evaluating ideas from academic text material and synthesizing this information with their own ideas to produce formal writing assignments. Successful completion of this course will prepare students for entry into ENGL 100. Exit Exam required. Credit earned cannot be used for graduation. Prerequisites: Successful completion of IEP SEM 1 or ACCUPLACER (LPT 86-105, ESL Write Placer 4-5), IELTS Ave. 5-5.5 (Reading 5-5.5, Writing 4.5), or TOEFL iBT Ave. 35-59 (Reading 4-12, Writing 12-13). Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 094, IEP 095, IEP 096, and IEP 097.

IEP 094

Advanced Grammar

(0)

This course focuses on expanding second semester students' ability to comprehend and use high intermediate grammatical structures, with focus on syntactically and semantically sound sentence structures. It offers practice in recognizing, improving and correcting them in written and spoken English in an academic context. Credit earned cannot be used for graduation. Successful completion will prepare students for entry into ENGL 100. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096.

IEP 095

Extensive Reading II

(0)

This course is based on the main principles of Extensive Reading Programs, which aim at giving students a more positive and motivating reading experience by providing a variety of reading material and allowing students to choose according to their interest and level. Focus is placed on the amount a student reads rather than difficulty level. This program has proven to support the English language skills necessary for success in an academic environment. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 094, IEP 096, IEP 097.

IEP 096

Learning Lab II

(0)

In the Learning Lab, students will receive personalized tutoring and writing assistance by course Instructors as needed. Students in the Learning Lab will receive one on one and/or group tutoring and writing assistance by course Instructors as needed. Students may also receive short lectures or presentations as needed. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 094, IEP 095, IEP 097.

IEP 097A

Novel vs Movie II

(0)

In this elective course, second semester students will strengthen their academic writing and critical thinking skills by analyzing and describing the differences between a book and its adapted movie. Students will read the level-appropriate book (fiction or non-fiction) and summarize it in a written synopsis. They will then view the film adaptation of the book while taking notes on the differences in plot, character, and theme between the book and film. Throughout the semester, students will synthesize and paraphrase both book and film in the creation of paragraphs and projects. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096.

IEP 097B

Contemporary Issues II

(0)

This course builds second semester students' confidence in conversation and speaking through the use of a variety of learning techniques, including group and pair exercises. While primarily a conversation course, it will also reinforce listening and presenting skills, as well as grammar and vocabulary. Pronunciation and intonation will be improved by listening to audio samples. Students will select a contemporary issue dealing with business, technology, the arts, or current events, research their chosen topic, converse about it with peers, and in the final stage deliver a presentation. Peer evaluation of presentations will be practiced. Textbook activities will be supplemented by in-class conversation practice, audio clips, songs, articles, short stories, movie clips, and listening dictation. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5.

Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096.

IEP 097C*Journalism II**(0)*

This course focuses on improving the four English skills (reading, writing, listening and speaking) through an introduction to Journalism. Students will engage in level appropriate mini-lectures, pair and group work, and student-instructor conferences. Second semester students will have the opportunity to improve their language skills by reading and writing level appropriate magazine and newspaper articles, by interviewing people on and off campus, and by writing pieces for the IEP magazine and/or newspaper to publish. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096.

IEP 097D*English Obsession II**(0)*

This course is designed to improve second semester students' English language proficiency in a fun, engaging, and positive learning environment by involving them with print and non-print media and activities that demonstrate students' abilities to think critically. They will work independently, in groups, and as a whole class to maximize and vary their learning. Lively discussions, discovery through writing, and participation in campus life are among the highlights of this course. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096.

IEP 097E*English Skills through Drama II**(0)*

This course is designed for second semester students and focuses on strengthening all four English skills (reading, writing, listening and speaking) through theater performance and acting practice in pairs and small groups. Students will compare multiple short play scripts to improve their reading while also discovering the conventions of script writing. Composing and editing their own play script will improve students' writing and critical thinking skills. Listening and speaking will be strengthened through rehearsals and the live performance of their final drama project at the end of the semester. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096.

IEP 097F*Bring Reading to Life II**(0)*

In this innovative course, second semester students will work both collaboratively and individually to bring reading to life through the arts. By engaging in a novel through drawing, music, drama, and/or movement, students will enhance their reading comprehension as well as their vocabulary, grammar, listening, and speaking while also deepening their understanding of novel plot, character, and theme. Script-writing will hone students' critical thinking, summarizing/paraphrasing, and conversational skills. The course will conclude with an artistic and/or dramatic celebration of a literary work for the AUK community and a digital scrapbook of the semester's multi-media creative process. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096.

IEP 097G*Argumentation & Debate II**(0)*

In this course, second semester students will follow the traditional American college debate format and present a stimulating formal debate on a topic of interest. Students will choose their topic and research evidence to support their argument. Debates will be performed in front of a live audience and panel of judges. Students will take notes during debates to refute and rebut the opposing team's arguments. Each team will attempt to convince the judges that its arguments are superior to those of the opposition. This course develops students' ability to analyze information quickly and formulate convincing arguments while also exercising listening and speaking skills. Class discussion and group activities will integrate listening, speaking, and reasoning skills. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096.

IEP 097H*Business English II**(0)*

This elective course is designed to provide second semester students who plan to major in business or the related fields of economics, marketing, finance, or accounting with the basic language skills and knowledge needed for entry into business undergraduate courses. High frequency business vocabulary will be highlighted throughout the course. In addition to textbook tasks, students will listen and read about a variety of business topics. Through class discussions, students will integrate their own ideas and experiences while also improving listening and speaking skills. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096.

IEP 097I*Introduction to Student Podcasting II**(0)*

Students in this course will learn about the fast-developing new technology of podcasting. They will learn how to access a wide-range of podcasts and to generate their own podcasts. In this process they will develop their listening, speaking, critical thinking, and summarizing skills. Students will practice listening comprehension by choosing podcasts which interest them and are suitable to their level. By creating their own podcasts and sharing them with the class, students will enhance their oral communication skills. Through peer evaluation students will polish their podcasts to produce accurate and fluent English audio files. These will be uploaded as podcasts that are available to other students as well as a global audience. Credit earned cannot be used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 094, IEP 095, IEP 096.

IEP 097J*Habits for Success**(0)*

Life Skills is a high-impact student success course that benefits and sustains students in college and beyond. This instructor-led course delivers a powerful blended-learning experience designed to: enhance student engagement, improve critical thinking skills, strengthen student learning, and improve life-college balance. Upon successful completion of The 7 Habits of Highly Effective College Students course, students may earn a globally recognized personal leadership certificate—part of Franklin Covey's Leadership Certificate Program. This certificate represents the first knowledge-level qualification of productivity, organizational trust, and strategy execution. CERTIFICATE REQUIREMENTS: Students must pass the 7 Habits fundamentals assessment. Credit earned cannot be

used for graduation. Prerequisite: Successful completion of IEP SEM 1 or Accuplacer LPT 86-105 or WP 4-5. Concurrent courses: IEP 090, IEP 091, IEP 092, IEP 093, IEP 095, IEP 096, IEP 097.

INTERNATIONAL RELATIONS (IR)

IR 101

Introduction to International Relations

(3) [S]

Examines the role of the sovereign state in a complex and interdependent state system. Attention is paid to the global political economy; labor migrations; internationalization of communication; international environmental issues; monetary, financial and energy issues; patterns of conflict and cooperation; international and regional state organizations; and non-state political and social organizations.

IR 202

Trends in International Relations

(3) [S]

Examines the major schools of thought in international relations as they are understood in world politics today. Attention is paid to global political issues such as poverty, disease, trade, environmental degradation, human rights and terrorism.

IR 206

International Political Economy

(3) [S]

Examines the interaction of markets and governments in the international system. Attention is paid to the impact of trade and production, the internalization of finance, security and information and communication technologies on the international system.

IR 210

Methods of Research in International Relations

(3) [S]

Introduction to the scientific method, data gathering, research design, and quantitative and qualitative analysis. Explores the use of computer applications for international relations and comparative studies research. Develops analytical skills that students need as active consumers of research findings. Pre-requisite: IR 101.

IR 306

Global Political Economy

(3)

Focuses on four major themes: globalization, global North-North relations; Global North-South; and Global South-South relations. Attention is paid to the Global East countries. Pre-requisite: IR 101.

IR 307

IR of Arab States

(3) [S]

Historical and contemporary analysis of foreign policies of Arab states, as well as Intra-Arab state; Euro-Arab and East Asian-Arab states relations. Pre-requisite: IR 101.

IR 309*Dynamics of Globalization*

(3) [S]

Studies the causes and consequences of contemporary global transformations. Attention is paid to the opportunities and vulnerabilities created by globalization, and of the politics of anti-globalization movements. Focuses on the question: Is globalization today unique, or part of a recurring pattern in world politics? Pre-requisite: IR 101.

IR 339*International Organizations*

(3) [S]

Examines the origins, charters, organizational structure, activities, and performance of international organizations; the United Nations; the International Monetary Fund; the World Bank; the World Trade Organization and others. Pre-requisite: IR 101.

IR 341*Public International Law*

(3) [S]

Studies the origins, sources and subjects of International Law. Examines the role of the law in the international arena, insofar as it facilitates relations among states, resolves disputes, protects rights of individuals, allocates resources and restricts conduct during wartime. Attention is paid to international law cases and their policy ramifications. Pre-requisite: IR 101.

IR 342*International Human Rights*

(3) [S]

Examines the evolution of the modern human rights regime. Juxtaposes the Western origins of the human rights regime with competing, non-western systems of thought and practices of rights, and assesses in this context the universality of modern human rights norms. Pre-requisite: IR 101.

IR 343*Terrorism & International Law*

(3) [S]

Studies international law as it pertains to the study of terrorism. Examines the international law of war and international criminal law and the development of an international law of terrorism. Pre-requisite: IR 101.

IR 345*Conflict Resolution*

(3) [S]

Examines theories, perspectives and practices in conflict resolution. Attention is paid to case studies of conflict resolution proposals. Pre-requisite: IR 101.

IR 369*Short Course*

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

IR 373

Communications Strategies in International Relations.

(3) [H], [S]

The course explores how States, and now increasingly also regions, and cities, use public relations tools to advance their soft power, promote business, and project a particular public image. Using case studies from around the world, the course explores not only the tools used, but also evaluate their overall effectiveness. Pre-requisite: IR 101.

IR 386

Perspectives on US Foreign Policy in the Middle East (Soliya Connect Program)

(3)

Explores the major debates, both theoretical and applied, that frame contemporary discussion about American foreign policy in the Middle East. Attention is paid to the perspectives of different focal actors and institutions including: the presidency, government agencies, legislators, interest groups, the mass public and the media. Examines the interplay between policy development and institutions, and reviews normative and empirical models of American Foreign Policy. Pre-requisite: IR 101.

IR 388

Independent Study

(1 - 3)

A research and writing project to be determined in consultation with the instructor. Can be repeated for credit with a different topic. Pre-requisite: IR 101.

IR 389

Special Topics

(3)

Can be repeated for credit with a different topic. Permission of Instructor. Pre-requisite: IR 101.

IR 470

Internship in International Relations

(1 - 3)

An internship experience to apply the knowledge acquired in the International Relations Program. A maximum of three (3) internship credit hours can be applied to the IR degree program. Permission of instructor required.

IR 480

Capstone

(3)

A research project that demonstrates the accumulated training in International Relations, subject to the instructor's approval. Requires students to write a 15 page research thesis. Prerequisites: IR 202 and IR 210.

ITALIAN (ITAL)

ITAL 101

Introduction to Italian I

(3) [H]

The goals of this course are communicative. They are aimed at developing the four skills with an initial emphasis in listening and speaking. The course provides various opportunities for students to communicate in Italian in reality based situations.

ITAL 102

Introduction to Italian II

(3) [H]

This course reviews material covered in ITAL 101. Students will gain proficiency in all four language skills (listening, speaking, reading and writing) and develop an understanding of the Italian people and culture. Permission of instructor. Prerequisite: ITAL 101.

ITAL 201

Intermediate Italian

(3) [H]

This course offers a complete review of the basic principles of grammar in addition to extensive oral practice. Emphasis is placed on developing good conversational ability. More focus will be placed on vocabulary building, reading and writing short texts in given situations. Permission of instructor. Prerequisite: ITAL 102.

MATHEMATICS (MATH)

MATH 095

Preparatory Mathematics

(0 - 3)

This course is given at the elementary level. Topics include a review of basic algebra, linear equations and inequalities in one and two variables, graphs, exponents and polynomials, factoring and quadratics, rational expressions and equations, and systems of linear equations. Prerequisite: Placement Test

MATH 100

College Algebra

(3) [M]

Intermediate Algebra, review of polynomials and rational expressions, equations and inequalities, graphs, functions and their properties, polynomial (piecewise defined), and exponential and logarithmic functions. Prerequisite: MATH 095 or by placement test.

MATH 101

Finite Mathematics

(3) [M]

Review of algebra, linear and quadratic equations, functions, graphs, systems of linear equations and inequalities, matrices, linear programming, sets, probability, combinatorics, and elementary data analysis. Prerequisite: MATH 100 or by Placement Test

MATH 102

Introduction To Modern Mathematics

(3) [M]

A brief survey of several branches of mathematics that have arisen during the past 150 years. Topics are examined so their influence on modern life can be appreciated. They include the mathematics of voting, sharing and apportionment, graph theory, networks and fractal geometry. Prerequisite: MATH 095 or by placement test.

MATH 103

Mathematics for Business

(3) [M]

Rate of change, first and second derivatives and their applications in economics and finance, Taylor approximation, matrix algebra and application, time value of money and interest rates—mathematical models, single and multiple cash flow applications, further applications to annuities and annuities due, applications to stocks and bonds. Prerequisite: MATH 100 or by placement test.

MATH 105

Nature of Mathematics

(3) [M]

This course is designed specifically to humanities students. It focuses mainly on the nature of mathematical practice, its foundations, development, and applications.

It covers topics such as: history of mathematics, types of mathematical reasoning (Inductive, Deductive), psychology of mathematics and the nature of invention/discovery, logic and its relation to mathematics, philosophy of mathematics, sets and foundations, number theory, game theory, and applications of the above in real life. Prerequisite: MATH 095.

MATH 110

Pre-Calculus

(3) [M]

Polynomial and rational functions, trigonometric functions and inverses, binomial theorem, introduction to limits, introduction to derivatives, basic rules of differentiation, conics, and the use of technology for problem solving. Prerequisite: MATH 100 or by placement test.

MATH 201

Calculus I

(3) [M]

Review on functions, limits, continuity, derivatives, rules of differentiation, applications of differential calculus to real-world problems, anti-derivatives, basic integration rules. Pre-requisite: MATH 110 or by placement test.

MATH 203

Calculus II

(3) [M]

Riemann sum, fundamental theorem of calculus, fundamental integration techniques, numerical integration, applications of integrations, improper integrals, sequence and series, and the use of CAS. Prerequisite: Math 201.

MATH 205

Linear Algebra

(3) [M]

Topics include systems of linear equations, matrices, Gauss-Jordan elimination, determinants, vectors in two, three, and “n” dimensions, vector spaces, eigenvectors and eigenvalues, linear transformations, inner product spaces, complex vector spaces, and applications to various fields. Prerequisite: MATH 203.

MATH 206

Calculus III

(3) [M]

Parametric equations, polar coordinates, surfaces in space, functions of several variables, partial derivatives, the chain rules, gradients, directional derivatives, total derivatives, Lagrange multipliers, multiple integrals, Fubini’s Theorem, cylindrical and spherical coordinates, vector fields, line integrals, curl, divergence, Green’s and Stoke’s theorem. Use of CAS. Prerequisite: MATH 203.

MATH 207

Advanced Engineering Mathematics

(3 - 4)

Functions of Several Variables. Vectors & Geometry of space. Linear Sys. & Matrices including Determinants, Linear Sys. of Equations, Eigenvalues & Eigenvectors. Vector Functions. Curvature, Motion in Space. Multiple Integrals. Intro. to Vector Integral Calculus: Fields, Line & Surface Integral, Green’s, Stoke’s, & Divergence Theorems. Complex Analysis: complex numbers and functions, differentiation and integration. Use of CAS. For Engineering majors only. Prerequisite: MATH 203.

MATH 210

Differential Equations

(3) [M]

Differential equations of first order, applications, singular solutions, linear equations with constant coefficients, miscellaneous methods for equations of higher order, solution in series, total differential equations, qualitative methods, and the use of the Laplace transform. Prerequisite: MATH 203.

MATH 213

Discrete Mathematics

(3) [M]

Logic of compound and quantified statements, elementary number theory, modular arithmetic, methods of proof, sequences, mathematical induction, set theory, matrices, functions, relations, graphs, combinatorics, and trees. Prerequisite: MATH 101 or MATH 110

MATH 325

Numerical Computing

(3)

Introduction to numerical algorithms, root finding, Approximation of functions, collocation, numerical integration and differentiation. Sophomore standing or Permission of instructor. Prerequisites: MATH 203 and CSIS 120.

MATH 388*Independent Study**(1 - 3)*

Can be repeated for credit with a different topic. Permission of instructor.

MATH 389*Special Topics**(3)*

Can be repeated for credit with a different topic. Permission of instructor.

MANAGEMENT (MGMT)

MGMT 201*Principles of Management**(3)*

An introduction to framework of Modern Management. Topics include: organizational goals, responsibilities, organization and control, decision making theory, planning, leadership, motivation, small group behavior, conflict, and organizational development and change. Prerequisite: ENGL 102.

MGMT 300*Quality Management**(3)*

The course integrates the basic theoretical approaches and quantitative tools that are required to introduce a quality management culture and use of improvement tools in modern government or non-government organizations. Specific topics explore the early stages of

quality management, theoretical approaches, relevant concepts and principles, quality standards, quality culture, quality improvement tools and techniques, and the role of the human capital for an effective quality focused business strategy. Prerequisite: MGMT 201 and BUS 209.

MGMT 301*Change Management**(3)*

This course aims at offering students the knowledge and skills they will need to face the challenges of organizational change. It investigates the change capabilities of organizations, the reasons people may resist change, and introduces models of the change process and how it could be managed effectively. The course focuses on specific concepts, theories and tools of change management and identifies common mistakes, and reasons why change initiatives fail, as well as the factors underlying the successful management of change projects. Prerequisite: MGMT 201.

MGMT 303*Management and Leadership Development**(3)*

Develops the management leadership and organization perspectives essential to the success of small to large businesses and individual managers. Development of management and organization leadership, creativity and innovation are stressed. Enhancing the manager's communication and negotiation skills is a critical dimension to developing effective managers. Developing an understanding of management philosophy and values and their practical impacts on managing a business is stressed. Prerequisite: MGMT 201

MGMT 304*Business Relationship Management*

(3)

Develops communication skills for managing business relationships. Topics include relationships with external stakeholders and inter-organizational communication. Emphasis is on managing tensions among organizational stakeholders in relation to primary business goals. Prerequisite: MGMT 201.

MGMT 315*Decision Making in Management*

(3)

The study of individual and group decision making in the organization. The process of arriving at a judgment based upon the feedback of multiple individuals and teams. Includes the use of decision-making models and matrixes. Prerequisite: MGMT 201.

MGMT 333*Organizational Behavior*

(3)

This course studies human capital management. The course offers a synthesis of behavioral science theories providing a broad framework for understanding the motivation, planning, and control of business' most important assets. Prerequisite: MGMT 201.

MGMT 343*Quantitative Research Methods for Business*

(3)

Introduction to the scientific method, research design, data gathering, statistical analysis of data; computer applications for business issues; student develops the skills for becoming an active and informed consumer of research methodology and findings.

Prerequisites: MATH 103 or MATH 110, and STAT 201.

MGMT 346*Production & Operations Management*

(3)

This course develops analytical tools that contribute to efficient and effective production and operations. It covers deterministic and probabilistic models for managerial decision-making in manufacturing, logistics, and service operations. Prerequisite: BUS 209, MRKT 200 and MGMT 201.

MGMT 350*Organizational Communication and Leadership*

(3)

This course is an in-depth study of leadership and its implications for communication strategies that contribute to organizational success. The course focuses explicitly on leadership from a managerial perspective. It helps students formulate their own model of leadership. The leadership approaches covered aim to increase follower support and maximize the implementation of business mission and strategy. Prerequisite: MGMT 201.

MGMT 369

Short Course
(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

MGMT 388

Independent Study
(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor.

MGMT 389

Special Topics
(3)

Can be repeated for credit with a different topic. Permission of instructor.

MGMT 413

Capstone: Strategic Management
(3)

The course emphasizes the integrative strategic decision-making process and the development and implementation of productive, competitive, and sustainable business strategies. Senior Standing.

MGMT 470

Internship in Management
(1 - 3)

An internship experience with the requirement that students keep a journal and write a report summarizing what the internship job added to their knowledge of Management and related fields. Students are limited to a maximum of 3 internship credit hours for any major and 6 credits overall. Permission of instructor. This is a pass/fail course.

MGMT 485

Senior Seminar in Management
(3)

This is a seminar for seniors where students conduct research projects on varying relevant and cutting edge managerial issues; presentation of research approaches, subject and results; a group project and an individual research project may be allowed. Instructor may vary and topics in theory and practice. Senior standing. Prerequisite: MGMT 201.

MARKETING (MRKT)

MRKT 200

Principles of Marketing
(3)

An introduction to the marketing process from a managerial perspective. Topics include: the marketing environment, customer decision-making, marketing research and information systems, segmentation and targeting, and product, price, distribution, and promotion decisions. Prerequisite: ENGL 102.

MRKT 309

Digital Marketing

(3)

Internet marketing; decision-making regarding promotion, pricing and distribution strategies via the Internet; product development and e-marketing; electronic markets; Internet purchasing behavior; Internet and e-mail advertising; Web sponsorships; Internet marketing ethics. Case studies of U.S. and Kuwaiti companies that have active Internet presence. Prerequisite: MRKT 200 and CSIS 110.

MRKT 329

International Marketing

(3)

Examines theories, practices, and contemporary issues related to global marketing management and the international marketing environment. The course discusses strategic decisions related to international product and policies and examines ethical issues, global marketing organizations, and multi-national economic integration. Applications of global marketing strategies will be discussed through case analysis. Prerequisite: MRKT 200.

MRKT 330

Services Marketing

(3)

Examines theory and practice in marketing of services, which requires substantial adaptation beyond standard product marketing issues. In addition to learning how to adapt standard marketing practices to a service context, students will develop expertise in building service business models, managing service interactions with customers, and planning profitable service strategies. The course focuses on application through case studies, projects, and development of business plans. Prerequisite: MRKT 200, ECON 200.

MRKT 340

Social Media Marketing

(3)

Examines ways in which interactive technologies are changing the rules and processes for customer's engagement. Students will critically assess when various common social media can or cannot be effective marketing communications channels. Particular emphasis is on those SM which offer the ability for strong customer interaction and participation. The course is application orientated, including case studies, projects, and class participation in discussion so that students develop expertise about implementation issues.

Prerequisite: MRKT 200 and CSIS 110.

MRKT 349

Buyer Behavior

(3)

The course examines the patterns and factors influencing the consumer and organizational behavior. The course material also includes concepts and findings from behavioral sciences. Analysis includes an integrated model of consumer behavior and the elements that influence decision-making process. Buyer behavior in global markets is also emphasized. Prerequisite: MRKT 200.

MRKT 355

Promotion and Advertising

(3)

Development of a promotional and advertising campaign for clients; formulation of advertising strategy, targeted audiences and consumer; multimedia campaign planning, campaign execution, and campaign evaluation. Prerequisite: MRKT 200.

MRKT 369

Short Course

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor. Prerequisite: MRKT 200.

MRKT 388

Independent Study

(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor. Prerequisite: MRKT 200.

MRKT 389

Special Topics

(3)

Can be repeated for credit with a different topic. Permission of instructor. Prerequisite: MRKT 200.

MRKT 401

Marketing Research

(3)

Applies qualitative and survey methods used in getting data to solve marketing problems. Topics include problem/opportunity formulation, determination of objectives, creation of research design, selection of data collection method, data analysis, interpretation of results, report production, and follow-up activities. There is a focus on strategic implications of marketing research and real-life applications through case analysis and projects. Senior standing. Prerequisites: MRKT 349.

MRKT 41

Marketing Capstone: Marketing Strategy

(3)

Application of marketing knowledge to marketing situations. Case studies, projects, marketing plan write-ups, simulations are used. Senior Standing.

MRKT 415

Supply Chain Management

(3)

Analyzes the various factors involved in designing and managing the supply chain and channels of distribution. The role of various channel members and their behavior, conflicts, cooperation, and motivation will be examined along with marketing logistics such as the impact of distribution policies on costs and customer service. Senior standing. Prerequisites: MGMT 346.

MRKT 470

Internship in Marketing

(1 - 3)

An internship experience with the requirement that the student write a report summarizing what the internship job added to his or her knowledge of Marketing and related fields. Students are limited to a maximum of 3 internship credit hours for any major and 6 credits overall. Permission of instructor and senior standing.

MUSIC (MUSC)

MUSC 101

Music Appreciation

(3) [H]

Chronological study of music styles of the western world, including an introduction to music elements and a review of the lives and works of famous composers.

MUSC 105

Introduction to World Music

(3) [H]

An introduction to various music cultures through musical, social, and aesthetic approaches. The cultures featured can vary from semester to semester.

MUSC 110

Applied Lessons

(1 - 3) [H]

Private intensive instrument or voice instruction. May be repeated for 8 total earned credits. Permission of instructor.

MUSC 160

Ensemble

(3) [H]

Students sing and/or perform musical instruments in a group setting. Can be repeated for credit.

MUSC 165

Percussion Ensemble

(3) [H]

An introductory performing percussion ensemble class (xylophones, other idiophones, drums). Students work on technical and reading skills while rehearsing beginning level repertoire and acquiring crucial experience in the rehearsal/performance processes. The course will culminate with an end-of-semester performance.

MUSC 215

Guitar Class

(3) [H]

Development of basic guitar skills, including sight-reading and accompanying. It is recommended that MUSC 220 be taken before or concurrently with MUSC 215.

MUSC 216

Piano Class

(3) [H]

A complete orientation to the keyboard for beginning pianists. Students are introduced to proper performance technique, etudes and scales, grand staff reading, sight reading, harmonization, solos and duets, and key signatures. It is recommended that MUSC 220 be taken before or concurrently with MUSC 216.

MUSC 217

Voice Class

(3) [H]

An introduction to the basic principles of singing with particular attention to issues of breathing, tone, diction, and vocal range.

MUSC 220

Music Theory I

(3) [H]

Skill development in the foundations of music. Students learn to read and write music notation, sing or play from musical scores, and analyze chords, melody, rhythm, and musical form.

MUSC 230

Music Theory II

(3) [H]

This course is a continuation of MUSC 220 (Music Theory I). Students gain further understanding of how music is constructed through intermediate analysis of chords, melody, rhythm, musical form, and an examination of analytical techniques. Music Theory II is designed to help students acquire the knowledge and discipline necessary for success as a musician. Prerequisite: MUSC 220 with a grade of C or higher or permission of instructor.

MUSC 260

Choir Class

(3) [H]

Performance- oriented vocal music ensemble open to all students. Students learn the rudiments of proper ensemble singing and

prepare pieces for performance. Extra rehearsals may be required. Course may be repeated for credit.

MUSC 310

Applied Lessons II

(1 - 3) [H]

Advanced private intensive instrument or voice instruction for students with established performance ability. May be repeated for 8 total earned credits. Permission of instructor.

MUSC 365

Percussion Ensemble II

(3) [H]

Advanced performing percussion ensemble class (xylophones, other idiophones, drums.) Course is geared toward students who have taken MUSC 165, piano lessons, or can read music.

MUSC 369

Short Course

(1 - 3)

Topic varies by semester. Classes are usually taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

MUSC 370

Music of the Arabian Peninsula

(3) [H], [K]

Examination of music and poetic genres of Kuwait and regions of the Arabian Peninsula including structural analysis and study of the context in which creative forms exist. This course satisfies the General Education Requirement for Arab Culture. Permission of instructor. [Cross-listed with SBSA 370]

MUSC 388

Independent Study

(1 - 3) [H]

Can be repeated for credit with a different topic. Permission of instructor.

MUSC 389

Special Topics

(3) [H]

Can be repeated for credit with a different topic. Permission of instructor.

MUSC 399

Music and Culture Study Abroad

(1 - 3) [H]

Introduces students to the dynamics of traditional cultures through ethnomusicological research and fieldwork involving live music, dance, rituals, and dramatic performances. Cultures can vary each semester, and course can be repeated for credit with a different topic. Permission of instructor.

NATURAL SCIENCES (NSCI)

NSCI 100

Natural Sciences Lecture

(3) [P]

This course provides lectures relating to concepts presented in first year courses in Natural Sciences. It is intended for students needing to fulfill the general education requirements in General Sciences. Permission of instructor.

NSCI 100L

Natural Sciences Lab

(1) [P]

This laboratory course provides experiments and exercises relating to concepts presented in first year courses in Natural Sciences. It is intended for students needing to fulfill the general education requirements in General Sciences. Permission of instructor.

PHILOSOPHY (PHIL)

PHIL 100

Critical Reasoning

(3) [H]

The course introduces a student to basic logical concepts and skills, such as arguments, induction, deduction, testing for validity and soundness. Special emphasis is placed on applying critical reasoning skills in everyday life, including the skill of identifying the logical fallacies and irrational appeals that attempt to manipulate our beliefs and actions.

PHIL 101

Introduction to Philosophy

(3) [H]

An introduction to basic doctrines and concepts in philosophy through an analytical reading of selections from the writings of Western philosophers who have had a major impact on the development of philosophical discourse. The course also addresses the relationship of philosophy to the development of other disciplines, such as theology, history, politics, social science, science, and literature. Some of the perennial issues in philosophy are identified and discussed.

PHIL 103

Introduction to Moral Philosophy

(3) [H]

The course examines major historical theories of ethics starting from Socrates and ending with contemporary philosophers, such as virtue theory, consequentialism and deontology. An attempt will be made to understand the historical development of ethics as a continuous process, with each succeeding stage building on the insights of the previous philosophers.

PHIL 201

Medieval Arabic Philosophy

(3) [H]

Survey of the works of major philosophers in Islam, such as Al-Ghazali, Ibn Rushd, the Sufis, and others. Course will include analysis of their religious and philosophical doctrines.

PHIL 203

Professional Ethics

(3) [H]

This course examines ethical debates facing individuals in the professional work-place. This course will examine the ethical nature of various professional relationships, including between employer and employee, client and business, colleagues and issues of transparency. Questions surrounding the duties of report writing, ethical obligations regarding report writing, environmental duties, etc. are also discussed. The objective of the course is to provide students with a critical understanding of the ethical issues in their professional lives.

PHIL 280

International Ethics

(3) [H]

This course raises ethical questions in a global or international context. Questions of cross-cultural, conflicting values are of particular concern in this course. Specific topics may include: the theoretical

bases for human rights, ethical questions of social or political identity, individual versus the state, immigration and refugee issues as well as ethical issues surrounding the environment and globalization. The objective of this course is to improve student's critical awareness and reasoning about ethical issues in a global context.

PHIL 310

Environmental Ethics

(3) [H]

This course examines normative issues in the study of the environment. Students will learn basic ethical concepts and theories and how to apply them to specific environmental concerns. Students will be asked to develop arguments to defend their own respective views regarding the environment and to develop viewpoints reflecting thoughtful and scholarly consideration of human duties, both individual and social, to the environment. Sophomore standing or permission of instructor. Prerequisite: ENGL 101. [Cross-listed with ENVS 310]

PHIL 311

Modern Western Philosophy

(3) [H]

Review of modern Western Philosophy of the Seventeenth, Eighteenth and Nineteenth Centuries. It explores issues of science, politics and culture and the impact of the Industrial Revolution. The course covers philosophy of science, pragmatism, utilitarianism, Darwinism and Marxism. Sophomore standing or permission of instructor. Prerequisite: PHIL 101.

PHIL 322

Western Political Philosophy

(3) [H]

Students will examine historical and contemporary political and social theories. This examination has the objective of increasing

students' critical understanding of the theoretical bases for much of today's socio-political structures and beliefs. Historical and contemporary theories include the works of Plato, Aristotle, Hobbes, Locke, Machiavelli, Confucius, Gandhi, Marx, Mill, Rawls and Nozick. Sophomore standing or permission of instructor. Prerequisites: PHIL 101 or any IR/PLSC and ENGL 101. [Cross-listed with PLSC 322]

PHIL 350

Metaphysics

(3) [H]

Metaphysics is the study of "what is." This course introduces students to major metaphysical theories from the pre-Socratics to contemporary theories. Students will analyze the major metaphysical theories as well as develop their own justifications for their metaphysical beliefs. Topics covered may include: the existence of qualia, mid/body distinction, proofs for the existence of God and the nature of substances. Historical figures covered may include Plato, Aristotle, Aquinas, Descartes, Hume, Kant, Sartre, Quine and Kripke. Sophomore standing or permission of instructor. Prerequisites: Any PHIL course and ENGL 102.

PHIL 388

Independent Study

(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor.

PHIL 389

Can be repeated for credit with a different topic.

Special Topics

(3)

PHIL 403

Advanced Business Ethics

(3)

This course examines ethical debates facing individuals working in professional fields. Topics covered may include: ethical treatment of employees by employers, ethical treatment of employer by philanthropic duties in the workplace and ethical duties of businesses to clients and vice versa. This course will also address issues surrounding corporate environmental and social obligations.

PHYSICS (PHYS)

PHYS 101

Introduction to Physics I

(3) [P]

This course is an introductory physics course for non-science majors. The course focuses on basic physics concepts and connections to everyday life in fields of mechanics and thermodynamics. Course topics include motion in one dimension, projectile motion, Newton's Laws of force, work, energy, circular motion, momentum, and heat and thermodynamics. Con-current: PHYS 101L

PHYS 101L

Introduction to Physics I Laboratory

(1) [P]

A laboratory component for the Introduction to Physics I course. Con-current: PHYS 101

PHYS 102

Introduction to Physics II

(3) [P]

This course is an introductory physics course for non-science majors. The course focuses on basic physics concepts and connections to everyday life in fields of electricity, magnetism, and optics. Course topics include electrostatic force and field, electromagnetism, DC and AC circuits, light and optical devices, and mirror and lenses. Con-current: PHYS 102L

PHYS 102L

Introduction to Physics II Laboratory

(1) [P]

A laboratory component for the Introduction to Physics II course. Con-current: PHYS 102

PHYS 105

Environmental Physics

(3) [P]

A one-semester course designed to explore the basic physical principles of light, heat and energy in the natural environment. Several key aspects of physics in the environment will be covered including energy (forms, conservation, sources and use), energy from fossil fuel, heat and the laws of thermodynamics, pollution of the atmosphere, environmental safety of nuclear energy and alternative sources of energy.

PHYS 107

Life in the Universe

(3) [P]

This course is an inter-disciplinary science course which explores our role in the universe, starting here on Earth where the very definition of “life” derives, to wondrous worlds in our solar system and finally to the great divide of interstellar space. The quest for life is the search for who we are and why we are here. The course topics will cover different areas of physics, chemistry, biology and geology.

PHYS 110

Introduction to Astronomy

(3) [P]

This course is a one semester introduction to astronomy. The course describes various important phenomena in astronomy, the physical principles underlying these phenomena, and methods of observing and interpreting them. Course topics include the principles of motion, universal gravitation, orbital motion, the nature of light and the operation of telescopes. Topics in astronomy include stellar astronomy, celestial coordinates, the solar system, the sun, the eight planets, and our galaxy.

PHYS 115

General Physics I

(3) [P]

An introductory calculus based course covering motion in one dimension, projectile motion, Newton's laws of force, concepts of work, energy and momentum, circular motion and rotational dynamics with laws of conservation of energy and angular momentum. A required laboratory that offers experiments in mechanics, momentum, work, and energy is part of this course. Prerequisite: MATH 201. Con-current: PHYS 115L.

PHYS 115L

General Physics I Laboratory

(1) [P]

A laboratory component for the General physics I course. Con-current: PHYS 115

PHYS 116

General Physics II

(3) [P]

The second semester of calculus-based physics covers electromagnetic wave theory, AC and RC circuits, magnetic theory and applications to magnetic storage devices, electromagnetic induction and optical phenomena with applications to optical devices. Prerequisite: PHYS 115 and PHYS 115L. Con-current: PHYS 116L and MATH 203.

PHYS 116L

General Physics II Laboratory

(1) [P]

A laboratory component for the General physics II course. Con-current: PHYS 116.

PHYS 212

Classical Mechanics

(3) [P]

A calculus-based general physics course. Includes kinematics, conservation of momentum, elastic and inelastic collisions, the scalar product, Newton's Law of Gravitation, conservation forces and law, Kepler's Laws, circular motion, equilibrium and elasticity, laws, projectiles, angular momentum, rotational motion, simple harmonic motion, energy, temperature, heat and the first law of thermodynamics, sound and mechanical waves. Prerequisite: PHYS 115.

PHYS 216

Electricity and Magnetism

(3) [P]

An introduction to the basic principles of electricity and magnetism including the contributions of Gauss, Faraday, Ampere, Maxwell, and others; capacitance, dc circuits, magnetic fields; electromagnetic propagation, antenna design, microwaves, radio wave transmission and reception, etc. Prerequisite: PHYS 116.

PHYS 312

Modern Physics

(3) [P]

An introduction to the history and nature of quantum mechanics; special theory of relativity; basic introduction to nuclear and elementary particle physics; discussion of classical laws, their modification and replacement to account for the behavior of atoms, subatomic particles, and matter at the macroscopic level; lasers, flux quantization. Sophomore standing or permission of instructor. Prerequisite: PHYS 116.

PHYS 388

Independent Study

(1 - 4)

Can be repeated for credit with a different topic. Permission of instructor.

PHYS 389

Special Topics

(3)

Can be repeated for credit with a different topic. Permission of instructor.

POLITICAL SCIENCE (PLSC)

PLSC 101

Introduction to Political Science

(3) [S]

Investigates the nature of government and politics. Explores the basic philosophies, principles, and concepts of governance, and the structures and processes of political systems. Attention is paid to forms of government, public administration, international organizations and the international system.

PLSC 203

Comparative Politics

(3) [S]

Examines how varied Western and other politics address the enduring problems of order, political responsiveness, political change, and the legitimacy of government structures. Investigates, comparatively, the relationships between the individual, social groups, and the state. Attention is paid to individual freedom and collective responsibility in political systems.

PLSC 210

Methods of Research in Political Science

(3) [S]

Introduction to scientific method, data gathering, research design, statistical analysis, and computer applications for international relations and comparative studies research. The course develops analytical skills that students need as active consumers of research findings. Prerequisite: IR 101 or IR 202. [Cross-listed with IR 210]

PLSC 302

Public Policy

(3) [S]

A survey of concepts and issues in public policy. This course acquaints the student with basic theoretical frameworks for the study and analysis of policy-making as both a problem-solving process and a political process. This course also examines closely the application of these concepts, frameworks, and criteria in selected policy areas. Sophomore standing or permission of instructor. Prerequisite: IR 101 or PLSC 101.

PLSC 303

Politics of Postindustrial Societies

(3) [S]

Examines the impact of technology, science, the information revolution and national and international social movements in postindustrial societies. Attention is paid to public policy and policy-making; domestic and foreign policy; politics and economies of welfare states; political participation and oppositional movements. Pre-requisite: IR 101.

PLSC 304

Arab Politics

(3) [S]

Investigates contemporary Arab political culture, its historical, economic, geographic, ideological and social roots. Attention is paid to the dynamics of Arab nationalism and political Islam. Pre-requisite: IR 101.

PLSC 315*American Government*

(3) [S]

Examines the structure and function of the American governmental system. Attention is paid to the constitutional bases of government; federal, state and local government systems; intra-governmental relations; the Presidency and the Executive Branch, the Supreme Court and Congress, as well as the role of business, industry, non-governmental agencies and interests groups. Pre-requisite: IR 101.

PLSC 317*Government and Politics of Kuwait*

(3) [S]

Examines the contemporary political institutions and behavior of the Kuwait political system. Attention is paid to political participation and elections; the relationship among the executive, legislative and judicial branches; the major national institutions involved in domestic and foreign policy-making. Pre-requisite: IR 101.

PLSC 321*Islamic Political Philosophy*

(3) [S]

Surveys Islamic political thought from the time of the Prophet Mohammad until the present. Investigates the development and evolution of institutions in the Islamic state; and Ibn Khaldoun's view of history, society and state. Addresses theories of state, including contemporary Shi'i and Sunni thought. Pre-requisite: IR 101.

PLSC 322*Western Political Theory*

(3) [S]

Surveys Western political thought from ancient times to the present. Analyzes major themes such as the relationship of the individual to the state, political authority, political legitimacy, cooperation and conflict, and political change through the works of Plato, Aristotle, Rousseau, Machiavelli, Hobbes, Lock, and contemporary political theorists such as Rawls. Pre-requisite: IR 101.

PLSC 327*Comparative Ethnicity, Identity, and Ethnic Conflict*

(3) [S]

Examines the complex configuration of identity, identity politics, and ethnicity. Attention is paid to the role of race, religion, culture and nationalism in ethnic identity, population, migration, and ethnic politics and conflict. Explores the rise of ethnic conflict globally. Pre-requisite: IR 101.

PLSC 36*Short Course*

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

PLSC 388

Independent Study
(1 - 3)

A research and writing project to be determined in consultation with the Instructor. Can be repeated for credit with a different topic. Senior standing or permission of instructor.

PLSC 389

Special Topics
(3)

Can be repeated for credit. Senior standing or permission of instructor. Pre-requisite: IR 101.

PLSC 405

Comparative Political and Economic Systems
(3)

Studies economic and political systems, planning strategies, and their effects on economic growth, democracy, equity, and effectiveness. Attention is paid to the historical experience of political and economic institutional arrangements in former socialist states, European countries, and nation-states in the Middle East. Pre-requisite: IR 101.

PSYCHOLOGY (PSYC)

PSYC 101

Introduction to Psychology
(3) [S]

An overview of the theories and principles of human behavior and mental processes. Topics covered include research methods, the biological bases of behavior, consciousness, sensation and perception, learning and memory, personality, social behavior, and psychological disorders.

PSYC 200

Research Design and Methods
(4) [S]

An introduction to research design and methods in psychology and statistical applications. The course provides an overview of experimental and quasi-experimental methods, principles of measurement, correlational and observational methods, surveys and content analyses, and the applications of descriptive and inferential statistics. Includes laboratory component. Prerequisites: PSYC 101 and STAT 201, or permission of instructor.

PSYC 202

Lifespan Development
(3) [S]

This course is an introduction to human development from infancy through death, focusing on the interactions of personal and environmental factors in the development of perception, language, cognition, and sociality. Topics include developmental theories, infant perception, attachment, the development of language and memory; identity transitions; and peer relations, schools, families and communities as the contexts of life-cycle changes.

PSYC 203

Social Psychology

(3) [S]

This course introduces students to theory and research about the dynamics of individuals and social groups. It includes studies of how we perceive ourselves and others, how we form our beliefs, judgments, and attitudes, social influences such as cultural or gender expectations, persuasion and pressures to conform, as well as our social relations, whether prejudicial, aggressive, intimate or helpful.

PSYC 204

Abnormal Psychology

(3) [S]

This course orients students to a range of behaviors classified as “abnormal”, and to theories and research about the dynamics, diagnoses and treatments of neuroses, psychoses, character disorders, psychosomatic reactions, and other abnormal personality patterns.

PSYC 235

Child Development

(3) [S]

This course introduces the principles and theories of child development, from infancy through adolescence. It is a study of the physiological, cognitive, emotional and social changes that children go through within the socio-cultural context of their environment.

PSYC 240

Cognitive Psychology

(3) [S]

This course offers current perspectives on how people acquire, represent, transform, and use verbal and nonverbal information. Topics include perception, attention, memory, action, thinking, language, and representations of knowledge. Pre-requisite: PSYC 101.

PSYC 332

Personality Theories

(3) [S]

This course provides an understanding of theories and research from each of the major approaches to the study of personality: psychoanalytic, learning, cognitive, dispositional, humanistic, and intervention strategies derived from these approaches. Offered Fall term only. Sophomore standing or permission of instructor. Prerequisite: PSYC 101.

PSYC 335

Psychology of Addictions

(3) [S]

This course assesses theory and research about the social impact, causes, characteristics, and treatment of addictions, including alcohol and drug addictions and eating disorders. Offered Spring term only. Sophomore standing or permission of instructor. Prerequisite: PSYC 101.

PSYC 342*Sensation and Perception*

(3) [S]

An exploration of how human sensory systems detect energy, such as light, sound, chemical, and mechanical energy, and how the mind processes and transforms this information in order to understand the environment. Topics covered include vision, hearing, smell, taste, and touch. Pre-requisite: PSYC 101.

PSYC 365*Marriage and Family Therapy*

(3) [S]

This course introduces students to treatment within the major models of family and couple therapy in Kuwait. Basic assumptions, major issues, primary theorists and techniques of each model will be considered, including working with diverse families and couples. This course is seminar-based and its primary focus will be in-class discussions and the sharing of different opinions and ideas. Prerequisite: PSYC 101.

PSYC 369*Short Course*

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

PSYC 388*Independent Study*

(1 - 3)

A research and/or writing project to be completed in consultation with the instructor. Can be repeated for credit with different topic. Permission of instructor required for enrollment. Prerequisite: PSYC 101

PSYC 389*Special Topics*

(3)

Can be repeated for credit with a different topic. Permission of instructor.

PSYC 470*Internship in Psychology*

(1 - 3)

An internship experience with the requirement that the student write a report summarizing what the internship job added to his to her knowledge of Psychology. Students are limited to a maximum of 6 internship credit hours. This is a pass/fail course. Junior standing and permission of instructor. Prerequisite: a minimum GPA of 2.0.

PSYC 475*Current Issues*

(3)

Seminar on current research, theory and applications of psychological principles. Junior standing.

RELIGION (RELG)

RELG 101

Introduction to Islamic Studies

(3) [H]

Analysis of the structure and dynamics of the Islamic belief system, including law, traditions, culture, and society. Original readings illustrating the classical Islamic paradigm are assigned. Contemporary issues of reform, renewal, modernization and fundamentalism, as well as contemporary debates among Muslims are addressed.

RELG 315

Religions of the World

(3) [H]

The course introduces the world's major religions both in their historical dimension and as they are practiced today. The origins and historical development, central doctrines, devotional practices, and cultural expressions of Hinduism, Jainism, Buddhism, Sikhism, Daoism, Confucianism, Shinto, Judaism, Christianity and Islam are considered in relation to common themes of human experience. Sophomore Standing.

RELG 369

Short Course

(1 - 3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

RELG 388

Independent Study

(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor.

RELG 389

Special Topics

(3)

Selected topics of interest in religion. Can be repeated for credit with a different topic. Permission of instructor.

SOCIAL AND BEHAVIORAL SCIENCES (SBSA)

SBSA 101

Introduction to Social and Behavioral Sciences, Concentration in Anthropology

(3) [S]

An introduction to the study of human society from a multicultural perspective. The course covers such topics as language, food, economics, political systems, religion, art, kinship and descent, gender, marriage and family, health, and cultural change. A prerequisite for many SBSA courses.

SBSA 200*Ethnographic and Research Methods*

(3) [S]

An introduction to ethnographic fieldwork and research design. The course covers both issues that confront researchers in the field as well as the methodology used to collect data. Among the methods to be presented are interviews with individuals, focus groups, surveys and questionnaires, data analysis and presentation. Students will have the opportunity to learn by doing. Prerequisite: SBSA 101.

SBSA 205*Fundamentals of Arab Society*

(3) [K], [S]

An overview of the structure of Arab society and its diversity. The course covers the relationship between environment and culture, the impact of history and religion on regional values, and the three basic subsistence strategies: Bedouin nomad, agricultural villager, and urban dweller. It also provides examples of social and cultural change.

SBSA 210*Arab Society and Culture*

(3) [K], [S]

This course explores the complexity and diversity of Arab society in its socio-cultural aspects. Among the topics to be covered are family life, gender roles, political culture and the military, economics, education, media, the arts, and the Arab communities in Europe and America.

SBSA 222*Global Media and Spaces of Identity*

(3) [S]

Anthropology of media is an essential area of study, living as we do, in a media saturated world today. The course examines new paradigms in the anthropology of visual communication in looking at how media interacts with issues such as representation, people's sense of self-identity and collective cultural identities, nationalism and transnationalism, media activism, diasporas, and social engagements with technology. The course locates the anthropological voice in media by locating it in worlds of practice and debate. [Cross-listed with COMM 222]

SBSA 224*Shopping and Consumerism*

(3) [S]

This course focuses on how consumers negotiate desire, difference, and power in the most seemingly commonplace material consumption and tries to decode the culture of consumption and what shopping says about people. The course traces the historical development of the relationship between goods and identity from the eighteenth century and identifies the systems of inequality that have been reproduced (as well as subverted) through material consumption. Students learn how social reality is constituted in an environment steeped in global consumer imagery, and are armed with analytical techniques to probe the social and ideological meanings invested in goods, thereby also gaining a critical, self-reflective perspective on cultural differences.

SBSA 235*Identity, Difference and Deviance*

(3) [S]

A critical, historical assessment of concepts of abnormality and deviancy as they emerge across time and cultures. The course covers longstanding debates about the relations of human nature and culture from 19th-century measurements of “primitives” and “freaks” to contemporary studies of mental illnesses, witchcraft, affliction and spirit possession, drug and alcohol abuse, moral panics, social control, outlawed deviancy, and acceptable forms of deviancy.

SBSA 239*Nations and Migration*

(3) [S]

Mobility, a key feature of contemporary life, has led to fundamental changes in our understanding of identity, culture, and community. Drawing on an inter-disciplinary range of debates, the course examines how, while nationalism and migration might be seen as opposing processes, migration often leads to reinvigoration and rephrasing of national identity, frequently with important political consequences. The course also discusses the range of phenomena that make up the “endless motion” of migration that shapes our everyday experiences.

SBSA 249*Images of Women in Media*

(3) [S]

In examining links between gender, media, and modernity, this course offers examples of media representations of women’s identity. Students will not simply analyze media representations of women, but learn to contextualize and critically examine them within a broader framework of the characteristics of contemporary culture in specific regions. This course will “cross borders” of disciplines, methods, and approaches, and intervene in current debates in the fields of cultural anthropology, media and cultural studies, global/local, Eurocentrism and multiculturalism. [Cross-listed with COMM 249]

SBSA 255*Health, Medicine and Curing*

(3) [S]

Analyzes the socio-cultural factors and the global forces that compose health, medicine, and curing. Critically explores healthcare consequences of inequality and the connection between power and medical knowledge particularly in Western bio-medicine. The topic covers how different people socially construct and manage well-being and illness, and examines the role of healers (e.g. physicians, shamans, and mid-wives) in cultural context.

SBSA 260*Ethnographic Film*

(3) [S]

A survey of historical and contemporary trends in ethnographic films and film-making. This course explores the use of film in anthropological analysis, documentation, and representation, and the technical limitations and ethical issues encountered by ethnographic filmmakers. We will screen and discuss films that portray the lives of diverse people and communities.

SBSA 270

The Indigenous Americas

(3) [S]

This module of the Indigenous Americas introduces students to the cultures of South America through historical and ethnographic study. It is designed to give students a general understanding of some of the core issues of a large and complex geo-political area. We will explore the shifting cultural, political and economic relations from the colonial period to contemporary times. The course will pay particular attention to the place of indigenous people in the national and international context.

SBSA 280

Kinship & Families-Global Era

(3) [S]

Surveys the anthropological history of kinship and explores the way global processes have changed or challenged family bonds. The course analyzes the impact of technologies, migration, and the global economy on personal relationship.

SBSA 341

Women in Cross-Cultural Perspective

(3) [S]

Explores the biological and cultural basis of gender, examines the factors that influence the relative status of men and women, and investigates the relationship between gender and such fields as politics, economics, health, violence, the family, and the media.

SBSA 344

Tourism and Cultural Change

(3) [S]

Analyzes tourism from a cultural perspective. Explores issues such as the impact of tourism on the environment and society, culture as a commodity, authenticity, touristic imagery, material aspects of tourism such as souvenirs, gender roles in tourism, and exploitation.

SBSA 345

Globalization: Opportunities and Challenges

(3)[S]

The course provides an anthropological and ethnographic introduction to globalization and a world of flows and interconnections. We will focus on how through globalizing processes, peoples and cultures are becoming increasingly interconnected, and also on ways how people in different parts of the world mediate these processes in culturally specific ways.

SBSA 348

Anthropology of Human Rights

(3) [S]

This course applies anthropological concepts and methods to understanding human rights issues in the contemporary world. The course compares Western to non-western views of human rights, and examines how competing views are grounded in the United Nations, governmental and non-governmental organizations.

SBSA 360*Genocide and Refugees**(3) [S]*

A critical, historical approach to understanding genocide with a human rights orientation to assess why such atrocities should be confronted. The course explores specific cases and diverse conditions leading to genocide, ethnocide and population displacements. Students will analyze the role of the modern state, colonialism, political ideologies, ethnicities and nationalism as major forces behind genocidal campaigns and assess the cultural factors leading to genocide.

SBSA 369*Short Course**(1 - 3)*

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

SBSA 370*Music of the Arabian Peninsula**(3) [K], [S]*

This course deals with music, dance, and poetic genres of Kuwait and regions of the Arabian Peninsula. It includes structural analysis and an examination of the context in which these creative forms exist. This course satisfies the General Education Requirement for Arab Culture. Permission of instructor. [Cross-listed with MUSC 370]

SBSA 372*Anthropology of Business**(3) [S]*

This course focuses on the application of anthropology in business. Access to meaningful information is often the difference between success and failure. Anthropological methods, by focusing on a holistic approach, qualitative data, and ethnographic analyses provide information in ways that traditional business simply cannot. Anthropology plays a critical role in understanding and analyzing diverse business and organizational issues in different societies and cultures, where cultural awareness and sensitivity is critical for successful business ventures.

SBSA 388*Independent Study**(1 - 3)*

Can be repeated for credit with a different topic. Permission of instructor.

SBSA 389*Special Topics**(3)*

Can be repeated for credit with a different topic. Permission of instructor.

SBSA 470*Internship in Social and Behavioral Sciences, Concentration Anthropology**(1 - 3)*

An internship experience to apply the knowledge acquired in the Social and Behavioral Sciences, concentration Anthropology Program. A maximum of three (3) internship credits hours can be applied

to the SBSA degree program. Permission of instructor is required.

SBSA 485

Seminar in Social and Behavioral Sciences, Concentration in Anthropology
(3)

A senior seminar that examines selected critical issues in the field of Social and Behavioral Sciences, Concentration in Anthropology. Senior standing or permission of instructor.

INTERNSHIP FREE ELECTIVE- CENG (SCEL)

SCEL 473

Internship for Free Elective Sciences & Engineering
(1 - 3)

Supervised experience designed to enhance intellectual development through application of knowledge in an occupation. Requirements include: weekly journals, and final report explaining what the internship added to the student's knowledge in an approved discipline. A pass/no pass course requiring junior standing and permission of instructor. Prerequisite: a minimum GPA of 2.00.

INTERNSHIP FREE ELECTIVE- CSIS (SCSC)

SCSC 473

Intern for Free Elective- SCIS
(1 - 3)

Supervised experience designed to enhance intellectual development through application of knowledge in an occupation. Requirements include: weekly log and final report explaining what the internship added to the student's knowledge in an approved discipline. A Pass/No Pass Course requiring Junior Standing and Permission of Instructor. Prerequisite: Minimum GPA of 2.00.

SOCIAL SCIENCES (SOCS)

SOCS 100

Introduction to Social Sciences
(1 OR 3)
[S]

This course is designed to provide the basic knowledge in the Social Sciences. The course provides information relating to concepts, studies and facts in the Social Sciences disciplines. Topics vary and may include psychology, criminology, geography, public health, linguistics, archaeology, environment, politics, international studies, history, economics.

INTERNSHIP FREE ELECTIVE - IR (SOEL)

SOEL 473

Internship for Free Elective Social Sciences
(1 - 3)

Supervised experience designed to enhance intellectual development through appreciation of knowledge outside the academy. Requirements include: weekly journals, and final report explaining what the internship added to the student's knowledge in an approved discipline. A pass/no pass course requiring junior standing and permission of instructor. Prerequisite: a minimum GPA of 2.00.

INTERNSHIP FREE ELECTIVE- SBSA (SOSA)

SOSA 473

Intern for Free Elective- SBSA
(1 - 3)

Supervised experience designed to enhance intellectual development through application of knowledge in an occupation. Requirements include: weekly log and final report explaining what the internship added to the student's knowledge in an approved discipline. A Pass/No Pass Course requiring Junior Standing and Permission of Instructor. Prerequisite: Minimum GPA of 2.00.

SPANISH (SPAN)

SPAN 101

Introduction to Spanish I
(3) [H]

The course is designed for beginners. The objective is to provide students with necessary skills in oral and written communication. The class is taught almost entirely in Spanish.

SPAN 102

Introduction to Spanish II
(3) [H]

Introduction to Spanish II continues to reinforce communicating skills with an emphasis placed on speaking (acquisition of vocabulary for personal and practical use). It will develop the ability to communicate with accurate pronunciation and intonation. Students will be exposed to the Spanish and Latin American culture with the use of video and other authentic material. The course content is built with a variety of methods and formats to suit the needs of learners. The class is conducted almost entirely in Spanish. Students may not enroll and will not receive credit for a language-learning course taken below the level of the language-learning course into which they were tested. Permission of instructor. Prerequisite: SPAN 101.

SPAN 201

Intermediate Spanish
(3) [H]

Intermediate Spanish continues to reinforce active communicating skills with more emphasis placed on reading and writing texts but it will continue to extend speaking skills in daily life situations. Students will be exposed to the Spanish and Latin American culture with the use of video and other authentic material. The course content is built with a variety of methods and formats to suit the needs of learners. At this level, the class is conducted entirely in Spanish. Students may not enroll and will not receive credit for a language-learning course taken below the level of the language-learning course into which they were tested. Permission of instructor. Prerequisite: SPAN 102.

SPAN 202

Intermediate Spanish II
(3) [H]

While still focusing on oral communication, more emphasis will be placed on reading short texts and writing short paragraphs. Students will develop a strong knowledge of Spanish grammar (verbs in present, past, future and subjunctive), and a strong vocabulary base. Permission of instructor. Prerequisite: SPAN 201.

SPAN 333*Language and Culture**(3)*

This is an advanced language course that improves students' oral, reading, and writing skills through an examination of Spanish society. Themes covered include family, education, arts, gastronomy, politics and immigration. Class discussion will be based on literary readings, songs, and movies. Permission of instructor. Prerequisite: SPAN 202.

SPAN 369*Short Course**(1 - 3)*

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with a different topic. Permission of instructor.

SPAN 388*Independent Study**(1 - 3)*

Can be repeated for credit with a different topic. Permission of instructor.

SPAN 389*Special Topics**(3)*

Can be repeated for credit with a different topic. Permission of instructor.

SPAN 399*Spanish Study Abroad**(3)*

This course is an option for students who wish to achieve fluency and an understanding of life in Spain. Students will study in Spanish speaking environment. Many courses assignments will take place out of a traditional classroom setting and students will be required to interact with native speakers every day. Permission of instructor. Prerequisite: SPAN 101.

STATISTICS (STAT)

STAT 201*Statistics**(0 - 3) [M]*

Topics include data classification, means, measures of central tendency and dispersion, frequency distributions, probability, sampling distributions, point and interval estimates, hypothesis testing, simple regression and correlation. Computer-based statistical packages are utilized. Prerequisite: MATH 100 or by placement test.

STAT 202

Regression for Business

(3) [M]

This course extends Statistics 201 to include estimation, hypothesis tests concerning one and two populations, statistical inference, Chi-square tests, simple and multiple regressions and model building. Prerequisite: STAT 201.

STAT 214

Statistics for Engineers

(3 - 4) [M]

Students will be given an in-depth exposure to proofs of statistical formulas and theorems. Topics for study will include counting methods, probability, discrete and continuous random variables, probability distributions, density functions, expectation, moments and moment generating functions, sampling distributions and the Central Limit Theorem, point and interval estimations, hypothesis testing, unbiased estimators, consistency, sufficiency, robustness, regression and correlation. Prerequisite: MATH 203.

STAT 388

Independent Study

(1 - 3)

Can be repeated for credit with a different topic. Permission of instructor.

SYSTEMS ENGINEERING (STEG)

STEG 210

Dynamic Systems

(3)

Modeling of dynamic systems. Formulation of mathematical models from system descriptions, including computer, electrical, biological, economic, transportation, and mechanical systems. Model behavior analysis using analytical and numerical methods. Discrete-time and continuous time systems. Linear and nonlinear systems. Introduction to computer modeling using MATLAB. Prerequisite: PHYS 116 and CSIS 120; Concurrent: STEG 210L.

STEG 210L

Dynamic Systems Laboratory

(1)

A laboratory component for the course STEG 210 Dynamic Systems. The lab syllabus is aligned with the course topics. Concurrent: STEG 210.

STEG 220

Engineering Statistical Analysis

(3)

Analytical methods for solving systems engineering problems using concepts from probability and statistics. Advanced hypothesis testing. Analysis of variance, linear and multiple regression analysis, non-parametric methods. Introduction to model-building, quality control, and reliability. Use of Software tools. Prerequisite: STAT 214.

STEG 220L

Engineering Statistical Analysis Laboratory

(1)

A laboratory component for the course STEG 220 Engineering Statistical Analysis. The lab syllabus is aligned with the course topics. Concurrent: STEG 220

STEG 321

Systems Simulation

(3)

Simulation model formulation, discrete events simulation. Simulation languages. Random number and random-variate generation. Data gathering, simulation input and output analysis, verification and validation. Applications of simulation. Introduction to stochastic simulation. Use of simulation Software. Pre-requisite STEG 220 and Concurrent: STEG 321L

STEG 321L

Systems Simulation Laboratory

(1)

A laboratory component for the course STEG 321 Systems Simulation. The lab syllabus is aligned with the course topics. Concurrent: STEG 321.

STEG 330

Operations Research I

(3)

Covers deterministic models with emphasis linear programming. Covers graphical solutions, simplex method, duality, sensitivity analysis. Transportation, assignment, and network models. Integer programming. Introduction to nonlinear programming. Prerequisite: MATH 207 and CSIS 120.

STEG 331

Operations Research II

(3)

Mainly covers deterministic models in operations research. Deterministic dynamic programming, inventory models, and nonlinear programming. Applications to engineering and management problems. Introduction to stochastic operations research. Prerequisite: STEG 330 and STAT 214.

STEG 340

Engineering Project Management

(3)

Covers tools and techniques used in managing engineering projects. Identifying and selecting projects; proposal and contracts. Defining scope, quality, and responsibility. Scheduling, resource utilization, budgeting, and risk management. Managing project teams, progress and performance measurement and evaluation. Case studies. Use of project management Software. Prerequisite: STAT 214 and MGMT 201.

STEG 340L

Engineering Project Management Laboratory

(1)

A laboratory component for the course STEG 340 Engineering Project Management. The lab syllabus is aligned with the course topics. Concurrent: STEG 340.

STEG 341

Production and Operations Management

(3)

Introduction to operations, productivity, and forecasting. Design of operations; services, human resources, etc. Operations management: supply-chain management and analytics, planning, scheduling, maintenance and reliability. Work measurement and inventory control. Prerequisite: STAT 214.

STEG 345

Quality Control

(3)

Covers quality and continuous improvement concepts. Design of quality control systems and quality control techniques. Statistical process control and control charts for variables and attributes. Acceptance sampling, reliability, process capability analysis, quality standards, total quality management (TQM), leadership and change. Use of quality control software. Prerequisite: STAT 214.

STEG 350

Human Factors Engineering

(3)

Incorporation of human factors into system design, analysis, and evaluation. Human capabilities. Facilitating human performance and activities. Communication with human users; design of displays and controls. Introduction to ergonomics, engineering anthropometry, and workplace design. Prerequisite: STAT 214.

STEG 369

Short Course

(3)

Topic varies by semester. Classes are taught by a guest lecturer or lecturers. Can be repeated for credit with different topic. Permission of Instructor.

STEG 388

Independent Study

(1 - 4)

Can be repeated for credit with different topic. Permission of Instructor.

STEG 389

Special Topics in Systems Engineering

(3)

Can be repeated for credit with different topic. Permission of Instructor.

STEG 422*Advanced Simulation*

(3)

Stochastic simulation. Monte Carlo (MC) methods, Markov-chain, Simulated Annealing. These methods will be compared with classical numerical schemes. Queuing models. Alternate system designs. Applications of stochastic simulation. Use of simulation Software. Pre-requisite: STEG 321.

STEG 431*Stochastic Operations Research*

(3)

Probabilistic methods for solving problems under uncertainty, decision analysis, queuing theory, inventory models, reliability, Markov chain models, and simulation. Applications to engineering and management problems. Emphasis on modeling and problem solving. Prerequisite: STEG 331.

STEG 442*Supply Chain Engineering*

(3)

Covers concepts, tools, and techniques from supply-chain management. Analysis, metrics, decision models, and forecasting. Modeling and Network design. Transportation. Green supply-chain. Vendor inventory management and logistics. Use of Software. Prerequisite: STEG 341.

STEG 446*Engineering Reliability*

(3)

Reliability definition and parameters computing. Measuring and evaluating reliability: failure rate estimation, prediction, restorability, modeling, availability and dependability. Introduction to reliability assurance. Engineering case studies. Prerequisite: STEG 345.

STEG 451*Health and Safety Engineering*

(3)

Covers safety and health for engineers. Local and international laws, regulations, and standards. Hazards assessment, prevention, and control. Risks to employees, facilities, production, and the environment. Health and safety management; ethics, incident data recordkeeping and reporting. Total safety management. Prerequisite: STAT 214.

STEG 452*Productivity Improvement*

(3)

Work study and productivity. Graphical Analysis and work methods improvement. Data and time systems; work measurement sampling. Physiological work measurement. Improving productivity; ergonomics, incentives, and other methods. Prerequisite STEG 350 and ENGR 330.

STEG 465*Petroleum Engineering*

(3)

Overview of petroleum engineering systems and industry processes. Identify petroleum products, handling, and marketing. Oil exploration, exploitation, drilling, production, reservoir and forma-

tion evaluation, transportation and refining. Government regulations. Prerequisite: CHEM 101 and ENGR 200. Restriction: Senior Standing.

STEG 470

Internship in Systems Engineering
(3)

An Internship experience with the requirement that the student write a report summarizing what the internship job added to his or her knowledge of Systems Engineering and related fields. Students are limited to a maximum of 6 internship credit hours. This is a pass/fail course. Junior standing and Permission of Instructor. Prerequisite: A Minimum Grade Point Average of 2.0.

STEG 475

Senior Design Capstone I
(3)

A supervised project in groups of normally three students aimed at providing practical experience in some aspect of Systems Engineering. Students are expected to complete a literature survey, project specification, critical analysis, and to acquire the necessary

material needed for their intended end product. Prerequisites: STEG 321 and Concurrent: STEG 331.

STEG 480

Senior Design Capstone II
(3)

A course that seeks to impart in students the skill to integrate the knowledge gained in different courses by asking them to develop a product that has passed through the design, analysis, testing, and evaluation stages. This course includes production of a professional report, design process and outcome, implementation and testing, and critical appraisal of the project. Prerequisite: STEG 475.

TRANSLATION (TRAN)

TRAN 101

Introduction to Translation
(3) [H]

The course introduces students to the discipline of translation as a multilingual, interdisciplinary process involving various linguistic and cultural perspectives. Elementary skills are developed by reviewing dictionary types, thesauri, synonyms and antonyms, and by rendering English into Arabic and vice versa.

TRAN 201

Theoretical and Practical Issues in Translation
(3) [H]

Various theoretical and practical issues associated with translation. The course covers several translation methods including word-for-word, semantic, and communicative translation. The course also examines how to approach problematic issues such as lexical and cultural gaps as well as the translation of idioms, proverbs and folk sayings. Prerequisite: TRAN 101.

TRAN 380*Media Translation**(3)*

The course teaches the various theories and practical skills and techniques of translating, subtitling and dubbing media materials, particularly television programs. The course involves education and training based on TV materials related to Media, Economics, Politics, Law, Business, Literature, Culture, Medicine and Science. Sophomore standing. [Cross-listed with COMM 380]

TRAN 388*Independent Study**(1 - 3)*

Can be repeated for credit with a different topic. Permission of instructor.

TRAN 389*Special Topics**(3)*

Can be repeated for credit with different topic. Permission of Instructor.

UNIVERSITY (UNIV)

UNIV 100*Essentials of Learning**(2) [L]*

The course facilitates student's integration into AUK's learning community by developing their understanding of the university's liberal arts culture. Skills for academic success are integrated into an interdisciplinary context which fosters students' meaningful educational engagement, and encourages them to incorporate self-reflective practices.

UNIV 110*University, Community and Citizenship**(3) [L]*

The Common Reader course provides first-year students with a shared intellectual experience that will stimulate discussion and critical thinking while encouraging students to use higher-level reasoning skills in order to make decisions or draw conclusions. The course will incorporate the principles of public speaking in both large and small group environments and promote effective communication in a variety of contexts. A primary aim of this course is to investigate the common reader material from multitude perspectives informed by the liberal arts philosophy. This interdisciplinary course will synthesize general education concepts to create sense of community among students, faculty and staff. Concurrent: UNIV 100.