CISabroad students:
Please note that this catalog contains all classes being taught at both the Athens and US campuses of Hellenic American University.

While this is a helpful tool for finding course descriptions for your classes, please make sure to only select classes that appear on the Athens course list for your term. Thanks!

2018-2019

August 31, 2018
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English Language Bridge Program Courses

ESAP01 General English I
Students are exposed to reading and listening material, adapted for educational purposes and engage in language production through structured dialogues, conversations, and paragraph writing. The course introduces the fundamentals of English grammar and develops basic communicative skills in the language, including listening, speaking, reading and writing. The course is flexible in terms of content and aims to assist students in acquiring the necessary language skills to participate in an international community.
Credits: noncredit bearing course

ESAP02 General English II
Students are exposed to reading and listening material, adapted for educational purposes and engage in language production through structured dialogues, conversations, and paragraph writing. The course teaches students to understand and to speak at a basic level of English. The course’s main objective is to enable students to use sentences and expressions of everyday life. The course is flexible in terms of content and aims to assist students in acquiring the necessary language skills to participate in an international community.
Credits: noncredit bearing course

ESAP03 General English III
Students are exposed to reading and listening material, adapted for educational purposes and engage in language production through structured dialogues, conversations, and paragraph writing. The course enables students to understand the main points of clear standard speech on familiar matters regularly encountered in work, school, leisure, etc. The course is flexible in terms of content and aims to assist students in acquiring the necessary language skills to participate in an international community.
Credits: noncredit bearing course

ESAP04 General English IV
Students are exposed to reading and listening material, adapted for educational purposes and engage in language production through structured dialogues, conversations, and paragraph writing. The course enables students to understand the main ideas of complex text on both concrete and abstract topics, as well as to interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quite possible without strain for either party. The course is flexible in terms of content and aims to assist students in acquiring the necessary language skills to participate in an international community.
Credits: noncredit bearing course

ESAP05 General English V
Students are exposed to reading and listening material, adapted for educational purposes and engage in language production through structured dialogues, conversations, and paragraph writing. The course exposes students to a wide range of demanding, longer texts and enables them to use language flexibly and effectively for different purposes. The course is flexible in terms of content and aims to assist students in acquiring the necessary language skills to participate in an international community.
Credits: noncredit bearing course

ESAP06 General English VI
Students are exposed to reading and listening material, adapted for educational purposes and engage in language production through structured dialogues, conversations, and paragraph writing. The course enables students to show great flexibility in reformulating ideas in differing linguistic forms to convey finer shades of meaning. The course is flexible in terms of content and aims to assist students in acquiring the necessary language skills to participate in an international community.
Credits: noncredit bearing course
ESAP07 Writing, Communication and Research Skills
This course is specifically designed to help students become better writers in their discipline, and overall, provides students with a thorough understanding and practice of presentational speaking skills, and familiarizes them with situations that they might face in their personal and professional lives. Moreover, throughout the course, students practice research and writing for diverse audiences and purposes through describing, analyzing, evaluating, synthesizing and presenting persuasive arguments while drafting, revising and editing.
Credits: noncredit bearing course

Mathematics Placement

MATH90 Fundamentals of Mathematics
The course develops different algebra and pre-calculus mathematical techniques. It investigates various examples and applications, emphasizing analytical thinking and quantitative reasoning. It presents exponents and radicals, linear and quadratic equations, inequalities, systems of equations, systems of inequalities. Topics include linear and quadratic functions.
Credits: noncredit bearing course
General Education Courses

GE103 Developing the Global Citizen
Developing the global citizen focuses on the themes of intercultural competence, social & personal responsibility, integrated learning from global, cultural, historical and political perspectives. From local to global, students will review and discuss issues of diversity, civic and democratic engagement, cyber-citizenship, corporate social responsibility, and intercultural communication. This includes gaining understanding of asymmetrical globalization and unequal power relations, promoting engagement in global issues, and an ethical relationship to difference. As with the “butterfly effect” what one chooses to do individually affects the larger society towards growth and positive change. Using an interdisciplinary and intercultural approach the course outcomes aim to enhance students’ self-awareness as global citizens while working towards attainment of the university’s mission.
Prerequisites: Co-requisite: GE105
Credits: 3

GE105 Writing I: Academic Literacies
Develops writing skills through assigned readings and critical analysis of imaginative, expository and argumentative texts. Texts used are representative of the wide range of material in the disciplines that comprise the undergraduate curriculum. The works of professional writers from different social and cultural backgrounds will be used to feature a variety of writing skills and styles. Students practice composition, editing and rewriting of their own texts.
Prerequisites: None
Credits: 3

GE106 Writing II: Expanding Academic Literacies
Guides students through the stages involved in researching and writing a research paper. Intensive and focused expository and argumentative writing requires that students provide evidence of their developed understanding of the writing process. Students practice researching and writing for diverse audiences and for different purposes. In the processes of drafting, revising, and editing their papers, students will describe, analyze, evaluate, synthesize, and present persuasive arguments.
Prerequisites: GE105
Credits: 3

GE107 Beginning Spanish I
Introduces the fundamentals of Spanish grammar and develops basic communicative skills in the language, including listening, speaking, reading, and writing. This course exposes students to the most relevant aspects of Hispanic culture through the class sessions, as well as through assigned introductory reading. Audio-visual materials used throughout the course will enhance students’ listening and speaking skills.
Prerequisites: None
Credits: 3

GE108 Beginning Spanish II
Teaches students to understand and to speak a basic level of Spanish and to get acquainted with the Hispanic culture. The course’s main objective is to enable the student to use sentences and expressions of everyday life. It expands on the grammar and vocabulary introduced in GE107 and enhances students’ knowledge of Spanish through the basic communicative skills: listening, reading, speaking, and writing, while focusing on conversational skills.
Prerequisites: GE107
Credits: 3

GE109 Intermediate Spanish I
Enables the student to become a basic user of the foreign language. Students continue the development of the basic communicative skills in Spanish. Further grammatical phenomena and vocabulary develop their knowledge of the language. Exposure to texts concerning the Hispanic culture help students analyze the most relevant cultural and social aspects. This course is taught entirely in Spanish.
Prerequisites: GE107, GE108
Credits: 3
GE110 Intermediate Spanish II
Continues the development and mastery of the communicative skills in Spanish. This course is the second of the intermediate Spanish language sequence. Students get acquainted with most grammatical phenomena, expand their vocabulary (by becoming familiar with idioms of everyday language), and develop their writing competence and further their communication skills. At the end of the course, students will be at level A2 (according to the Common European Framework of Reference), able to take the corresponding exam for the A2 Diploma.
Prerequisites: GE107, GE108, GE109
Credits: 3

GE112 Critical Thinking
Focuses on the development of thinking and analytical skills that enable students to evaluate and meet the many professional and social demands made of them as learners and citizens in a global world. Students will acquire the ability to critically reason and assess situations by using methods of effective argumentation and analysis. Essential principles of the critical thinking process will be introduced to aid in developing competencies of reasoned decision-making that are applicable across the disciplines. This course emphasizes multicultural perspectives, understanding conflicting value systems, and ethics in argumentation and decision-making.
Prerequisites: GE105; Co-requisite: GE106
Credits: 3

GE113 Values, Ethics and Social Responsibility
Introduces special topics and themes related to issues of ‘Values, Ethics & Social Responsibility’. This interdisciplinary course focuses one of several different disciplines each term, with professors from across the disciplines presenting the material from the perspective of their subject areas. The course involves discussion and critical analysis of various case studies and issues, which will be explored by students from the perspective of their own communities and cultures. The course also explores how differences in world view affect the wider communities.
Prerequisites: GE105, GE106; Co-requisite: GE115
Credits: 3

GE115 Public Speaking
Describes the process of effective speech communication by first defining the specific purpose of a speech. This course provides instruction and guidance in the development of the oral communication skills which are essential to successful public speaking. Activities in class emphasize the development, organization, and presentation of informative and persuasive speeches, training in verbal and nonverbal communication methodologies, as well as the process of evaluating and constructively critiquing public speeches.
Prerequisites: GE105; Co-requisite: GE106
Credits: 3

GE116 Beginning Arabic I
Introduces students to the Arabic language. Through classes students are exposed to the particularities of the Arabic language and culture. Students develop writing, listening and speaking skills through traditional in-class exercises and audio-visual material, and engage in language production through formally and informally structured conversations and paragraph writing.
Prerequisites: None
Credits: 3

GE117 Beginning Arabic II
Teaches students essential grammatical phenomena that will enable them to read a wide range of texts that reflect everyday interaction. At the same time the course develops their writing, listening, and speaking skills. Specially designed audiovisual material is used to give students an idea of life in Arabic-speaking countries and to familiarize them with the socio-cultural background of the language.
Prerequisite: GE116
Credits: 3

GE120 American Government and Politics
Focuses on the structure and processes of American government and policies. Class topics include basic constitutional principles, the theory and practice of representative government, and the organization of a specifically American political system. Students will examine the political and ideological background of the American constitution as it relates to its current form. The course will emphasize the analysis of federal, executive, congressional and judicial processes as well as more recent governing policy issues.
Prerequisites: GE105, GE106; Co-requisite: GE115
Credits: 3
**GE126 Personal Finance I**
Is designed for students who want to improve their ability to define and attain their financial goals. The course begins with the fundamentals of the financial planning process and proceeds to cover topics such as personal financial goals, opportunity cost, the time value of money, family budgeting and spending, financial products and services, types of credit, debt management, consumer activities, housing and home buying, property and casualty insurance, health and disability insurance, life insurance, investing and investing alternatives.
Prerequisites: None
Credits: 3

**GE127 Personal Finance II**
The course begins with planning family spending and covers issues of risk management (insurance), taxes, wealth accumulation, investing, and wealth distribution (retirement and estate planning). Students learn financial modeling techniques and the basics of money psychology and counseling skills. In a concluding case study, students discover what a planning engagement entails and how the various aspects of the discipline are integrated.
Prerequisites: GE126
Credits: 3

**GE135 World History**
Provides a history of the human community from antiquity to the present with a focus on the history of civilizations and the patterns of regional and broader global integrations. The class discusses similarities, differences and qualities of various civilizations in the pre-modern (to 1500 A.D.) and the modern (1500-present) eras. This course highlights social, cultural, and economic influences and interactions. In addition, it will explore the making of the modern world, with emphasis on international relations and culture.
Prerequisites: GE105
Credits: 3

**GE138 Art Appreciation**
Introduces students to the artistic experience and the world of art in a sophisticated way, providing them with the language with which to discuss all types of art. Students explore different ideas, approaches and purposes of art. Students learn about the various forms of visual art and its historical classification, studying and viewing ancient art from all over the world and progressing through the significant movements in art through the ages.
Prerequisites: None; Co-requisite: GE105
Credits: 3

**GE139 Second-guessing the News: The Challenges and Consequences**
Takes an interdisciplinary approach to current events in the community and in the world, encouraging students to investigate available materials from newspapers, DVD scenarios, and professional and popular journals. Students will be asked to focus on strategies of communication, explorations of public opinion and leadership models as well as corporate image-making and survival tactics. The course areas of study include Communications (private and public media functions), Government, and Policy-forming Institutions.
Prerequisites: GE105, GE106; Co requisites: GE112, GE115
Credits: 3

**GE140 Drawing and Design**
Introduces students and assists them in developing their artistic potential. The class discusses problems in drawing, painting, and design using a variety of processes and material. The course also introduces students to digital design and exposes them to fundamental techniques and principles of Web pages and other popular sites. Students will learn how to analyze and criticize Web design from a functional and aesthetic point of view, and how to develop a Web page with available software tools.
Prerequisites: IT100
Credits: 3

**GE141 Athens Across the Ages**
Surveys the city of Athens from its ancient origins as a small village at the foot of the Acropolis, first settled in 4500 BC, to modern times, where it became the sprawling capital of Greece and home to four million people. Class meetings are organized chronologically and arranged so as to acquaint the student with significant historical events. The course will also explore the development of ideas and movements in art, philosophy, politics, religion, including their impact on society though the ages as well as their legacy in modern times.
Prerequisites: GE105; Co-requisite: GE106
Credits: 3
GE142 Music Appreciation
Provides an introduction to the world of music and a survey of the history of Western classical music from
the Middle Ages to the present. The course focuses on a select group of great compositions and composers
with emphasis in the relationship between music and society. It also provides fundamental information on
music theory. It is designed to be an enjoyable introduction to the world of classical music. A musical
background or training is not assumed or required.
Prerequisites: None; Co-requisite: GE105
Credits: 3

GE144 Introduction to Theater and Drama
Introduces students to fundamental dramatic genres by exploring the works of key directors, practitioners
and artistic movements. Starting from Stanislavski and Brecht, the class will explore Dada, the Surrealists and
the Theatre of the Absurd. As well as exploring the philosophy of each artistic movement, students will
discuss and analyze selected texts in order to achieve a thorough understanding of both the theory and the
practice of theater. The text analyses will be accompanied by some practical group work in the class. There is
no need for prior acting experience.
Prerequisites: None; Co-requisite: GE105
Credits: 3

GE145 Principles of Sociology
Studies and analyzes fundamental issues and problems of group life, social organization, culture, interactive
processes and socialization, deviance, social inequality, social institutions, and the dynamics of modern
society through sociological approaches. Class topics include the sociology of the family, religion, education,
law, work, poverty and the relationship of society and the environment.
Prerequisites: GE105; Co-requisite: GE106
Credits: 3

GE146 Acting: Theory and Practice
Having been introduced to major dramatic movements, students focus on the practical realization of
important acting theories and methods. The class approaches texts-representatives from each dramatic genre
and works in detail towards their presentation on stage. Students also investigate character work and explore
exercises in relation to movement and voice.
Prerequisites: None; Co-requisites: GE105, GE144
Credits: 3

GE148 Greek Drama: Tragedy and Comedy
Introduces students to the origins of theater. The course looks at the first instances of theater practice in ancient
Greece, starting from the dithyramb, and how they developed into ancient Greek drama. It examines
important works from the ancient Greek drama genre - both tragedy and comedy. In addition to discussing
myth, the course also explores music, a very significant element of ancient Greek drama, and looks at works
of opera and film that are based on Greek drama.
Prerequisites: None; Co-requisite: GE105
Credits: 3

GE149 Theater Production
Presents the process of producing a play - from the first reading to its staging. Students explore the roles of all
the collaborators in a theatre production (director, actors, designer, composer etc.) and realize them in practice.
Depending on the students' interests, the play to be approached will be either from the world repertory or a
new work composed by the students. The course will be completed with a performance presented by the
students. Interested students are invited to have a short discussion/interview with the instructor before
enrolling in the course.
Prerequisites: None; Co-requisites: GE105, GE144
Credits: 3

GE150 Introduction to Musical Theater
Approaches the genre of musical theater in both analytical and creative terms. The course includes discussion
of musical theater masterworks and analysis of their form and techniques. Students investigate the works’
sociological context, their content and the relationship between music, text and dance. The course will be
completed with a performance/compilation of scenes from musicals studied in the term, arranged and
presented by the students.
Prerequisites: None; Co-requisite: GE105
Credits: 3
GE151 Aesthetics and the Arts
Familiarizes students with theories of aesthetics to better understand the arts. The course explores fundamental concepts such as beauty, appreciation and interpretation and analyzes them in the context of the dramatic arts. Students read works by theorists such as Kant, Nietzsche, and Schopenhauer in order to approach drama at a deeper level and investigate its relation to the other arts.
Prerequisites: None; Co-requisite: GE105
Credits: 3

GE153 Strategies in Performance I
Students first meet with the instructor(s) to identify the central subject of the performance and then create a devised piece around this subject. The piece is then developed using a combination of several art forms that are explored in a variety of spaces – from indoor theaters to sites around the city of Athens or even other cities in Greece, which students visit with their instructors. The students will get familiar with different artistic forms and work on their combination for the result of a new project. Collaboration is the main objective, which will now be developed outside the class in more demanding, yet more fascinating conditions.
Prerequisites: None; Co-requisite: GE105
Credits: 3

GE154 Strategies in Performance II
Investigates the creative process through a series of interdisciplinary performance-oriented projects. Students work with the instructor(s) to find a focus for the project - the subject – which they then work collaboratively on developing. The primary matrix is site-specific performance, but the project also embraces a wide variety of venues, from public performances in recognizable theater spaces, to related products such as texts, images & videos posted on the web, "micro-performances" (which may be as short as a minute) that may be staged or improvised, and gallery installation/performances. The course also draws on the study of art history, contemporary art & performance, site analysis, drawing & photography, videography, writing, web design, and ‘actor work’ (voice, movement, etc.) -- as well as investigations into composition, design, color, light, use of 3D space and other nuts-and-bolts of art work. The idea is to focus on process, to develop ideas with the participants in an organic way, to expand our sense of what performance is, and to expand the participants' sense of themselves as artists.
Prerequisites: None; Co-requisite: GE105
Credits: 3

GE155 Sustainable Planet
Focuses on basic and current understandings of environmental problems and ecological principles - the foundation of a living planet. Students become aware of the impact of past and present management decisions on the state of our environment, as well as the ecological requirements for a sustainable society. The course reviews a range of options for businesses, starting from minimal compliance with environmental regulations to the uses of innovative designs in providing a comparative advantage.
Prerequisites: GE105; Co-requisite: GE106
Credits: 3

GE156 Environmental Management and Sustainability – “Green Business”
This course is designed to provide a practical overview to the management of environmental issues as practiced in today’s business world, and how these issues are likely to develop in the future. Environmental Management and Sustainability provides the basic foundations to those pursuing careers in private business, environmental consulting or government.
Prerequisites: GE105, GE106, GE155
Credits: 3

GE158 Sustainable Community Development
Examines the support of regional economies through innovation in business development in order to advance social and ecological values in local communities. This course provides basic knowledge on several aspects of sustainable community development including examination of community needs, financial planning, and marketing and management issues, while emphasizing the consolidation of public and private interests. Students will engage in applied research on a real project.
Prerequisites: GE105, GE106, GE115, GE155
Credits: 3
GE159 Global Environmental Law & Governance
Investigate the principles guiding environmental policy and decision-making for a sustainable society. Focus will lie on international law, as well as on the role of international and supranational institutions, such as the UN, the WTO, the World Bank etc. Global challenges will be identified and humanity’s current and potential response through treaties, conventions and agreements will be critically analyzed. The current system of global governance (or lack thereof) will be investigated, with particular focus on the exchange between multinational corporations, governments and of civil society, and on the role of democratic structures in an era of rapid globalization. The history and political platform of green parties will also be discussed.
Prerequisites: GE105, GE106, GE155
Credits: 3

GE160 European Union Institutions and Policies
Introduces students to the history, structure, institutions, and policies of the European Union. The course explores topics such as new treaties, common policies, financial resources, the European Monetary Unification, as well as the terms and conditions of international business activities as a result of European Union policies. The course also focuses on how activities of member-states can be supported by the economic policies of the EU in accordance with the principles of an open market economy.
Prerequisite: GE105
Credits: 3

GE162 International Service Learning
Examines communities that aim to transition towards sustainability. Students will be exposed to the real-life challenges that these communities face in this process and will take part in relevant projects where they will have the opportunity to develop their own proposals under the supervision of project leaders. The course is geared towards students interested in hands-on experience in making change happen under real conditions.
Pre-requisites: GE105, GE106, GE155, GE158
Credits: 3

GE163 Contemporary Greek Culture
A course on Contemporary Greek Culture presents a daring challenge for both instructors and students, as the subject is epistemologically and historically ambiguous. The mere definition of either term composing the course title is a task in itself. However, through the process of familiarizing themselves with key facets of contemporary Greek culture, students embark on a pleasantly intriguing journey through the fascinating history of Greece and its people, which spans more than 5,000 years, and still influences global civilization.
Prerequisites: None
Credits: 3

GE170 Fundamentals of Philosophy
Provides students with the opportunity to explore certain core philosophical issues in the areas of epistemology (theory of knowledge), metaphysics (the theory of the nature of reality) and ethics (the theory of what we ought to do) at an introductory level. Among the problems examined are the following: can we know anything? If yes, what are the sources of knowledge? What is freedom and what is its relationship with moral responsibility? Are moral values objective? What is the relationship between morality and happiness? Students are encouraged to acquire a clear understanding of theories proposing answers to the above mentioned problems, but also to take a critical stance towards them and express their views in a clear and accurate way. The course can be useful for dealing with certain problems of professional/social/moral life which require the ability to make decisions on the basis of careful assessment of arguments supporting different viewpoints. Therefore, it has inter-disciplinary relevance across the disciplines.
Pre-requisite: GE105
Credits: 3

GE171 Beginning French I
Introduces students to basic vocabulary and fundamental sentence structures in the present and past. Students learn basic French grammar such as verb conjugation and adjective agreement and practice the basic skills of speaking, listening, reading and writing in the present tense with an emphasis upon correct oral and written expression and aural comprehension. Students are also introduced to various aspects of French culture in France and in French speaking countries around the world in the text and through videos and presentations, which may include historical, social and cultural topics.
Prerequisites: None
Credits: 3

GE172 Beginning French II
Develops the basic knowledge acquired in Beginning French I, basic vocabulary and fundamental sentence structures in the present and past. Students learn French grammar such as verb conjugation and adjective
agreement and practice the basic skills of speaking, listening, reading and writing in the present and past tense with an emphasis upon correct oral and written expression and aural comprehension. Students are also introduced to various aspects of French culture in France and in French speaking countries around the world in the text and through videos and presentations, which may include historical, social and cultural topics.

Prerequisites: GE171

GE173 Intermediate French I
Enables the student to become a basic user of the foreign language. Students continue the development of the basic communicative skills in French. Further grammatical phenomena and vocabulary develop their knowledge of the language. Exposure to texts concerning the French culture help students analyze the most relevant cultural and social aspects.

Prerequisites: GE171, GE172

GE174 Intermediate French II
Continues the development and mastery of the communicative skills in French. This course is the second of the intermediate French language sequence. Students get acquainted with most grammatical phenomena, expand their vocabulary (by becoming familiar with idioms of everyday language), and develop their writing competence and further their communication skills. At the end of the course, students will be at level A2 (according to the Common European Framework of Reference), able to take the corresponding exam for the A2 Diploma.

Prerequisites: GE171, GE172, GE173

GE205 Intermediate Spanish III
Intermediate Spanish III develops communicative skills and competences studied during the previous four terms. At the same time the course reviews and emphazises to the fundamental grammar and vocabulary items and permits the students to use the language in an autonomic way. Also the course will be focused to prepare the students for DELE exams (Diploma de Español como Lengua Extranjera B2).

Prerequisites: GE107, GE108, GE109, GE110

GE206 Intermediate Spanish IV
Builds on essential cultural aspects of Spain and Latin American countries; thus, students develop appreciation of various topics in as history, geography, society, art, tradition and everyday culture of the Hispanic people from the aforementioned countries.

Prerequisites: GE107, GE108, GE109, GE110, GE205

GE207 Foundations of Hispanic Culture and Civilization
Builds on essential cultural aspects of Spain and Latin American countries; thus, students develop appreciation of various topics in as history, geography, society, art, tradition and everyday culture of the Hispanic people from the aforementioned countries.

Prerequisites: GE107, GE108, GE109, GE110, GE205, GE206

GE208 Discourse in Hispanic Culture and Civilization
Delves into advanced knowledge in cultural aspects of Spain and Latin American countries, so students get acquainted with topics such as business, history, society, art, tradition and everyday culture of the Hispanic people from the afore mentioned countries.

Prerequisites: GE107, GE108, GE109, GE110, GE205, GE206, GE207

GE210 The Classical Tradition in Art and Literature
Introduces the founding influences of Latin and Greek thinkers of antiquity, including writers such as Seneca and Plutarch. The course incorporates the influences of European art and architecture and literature from the ancient world. Students trace Greco-Roman traditions and history as they gain an overview of key schools of thought that have carried over from antiquity.

Prerequisites: GE105, GE106, GE112

GE220 Politics and Society: Comparative Democracies
Establishes the ancient Greek conception of the “Polis” and explores paradigms of government put forward by Plato and Aristotle in some of their major works. The course discusses how America’s founding fathers (Jefferson, Madison, Adams), embraced and departed from key assumptions of the ancient Greeks to develop...
their own views of democracy. Students examine issues such as the rights of the individual in relation to the power of the state and society, the nature and legitimacy of political authority and democracy, the significance of power, economics, justice and equality in social life; and the duties and responsibilities of citizens.
Prerequisites: GE105, GE106, GE112
Credits: 3

**GE/BIOL150 Introduction to Biology**
Examines biological structures and processes from the level of molecules to ecosystems. The course is designed to provide a factual and methodological overview of the field, emphasizing the unit of life, genetics, evolution, classification of organisms in the Kingdoms of life and ecology. The practicals offer hands-on experience with the organisms, equipment and protocols used by biologists to determine cell/animal structures, isolate DNA, produce genetically modified organisms, track the spread of diseases, and identify suspects from crime scenes. The course is intended for non-science majors.
Prerequisites: GE105; Co-requisite: GE106
Credits: 4

**GE/BIOL200 Human Biology**
Introduces the major chemical and biological principles through the study of the human body and emphasizes the interrelationships between the body organ systems. Systems physiology, diseases, nutrition, genetics, and human ecology are the major topics. This is the second course in a two-term sequence of Biology courses for non-majors. The BIOL200 Laboratory is designed to reinforce understanding of the topics covered in lectures.
Prerequisites: GE105, GE106, BIOL150
Credits: 4
GE/BUS200 Perspectives on Business in Society
Introduces students to the basic concepts and principles of business organizations, the management objectives these organizations set and the contemporary issues they face. The course covers a wide range of topics including the conduct of business on a national and international scale, the ethics and social responsibilities of business enterprises, product development, commodity pricing, and the legal environment of business organizations.
Prerequisites: GE105; Co-requisite: GE106
Credits: 3

GE/BUS212 Intercultural Organizational Communications
Prepares students for intercultural communication challenges in organizations by addressing the communication skills necessary for effective cross-cultural organizational interactions. This course examines the cultural variables that may define as well as determine the course and success of these interactions within and between organizations. It focuses on the application of intercultural communication skills and insights to various fields, organizations, and situations in order to achieve organizational goals.
Prerequisites: GE105, GE106
Credits: 3

GE/BUS251 Macroeconomic Theory
Covers the overall economic performance of a national economy. The course deals with the determination of the level of the gross national product, employment, prices of goods and services, and the growth of an economy. The course also analyzes the role of money and banking systems, the impact of fiscal and monetary policy on the level of output, employment, prices and the effect of international transactions on a national economy.
Prerequisite: GE105; Co-requisite: GE106
Credits: 3

GE/BUS310 Organizational Behavior
Introduces students to theoretical and practical aspects of human behavior and management in the workplace. The course focuses on understanding and attaining competencies necessary for effective performance at the organizational, group, and individual levels within the firm. Topics include motivation, organizational structure, job design, group dynamics and teamwork, leadership, conflict resolution, power relationships, and organizational change.
Prerequisites: GE105, GE106, GE 115, BUS305
Credits: 3

GE/BUS368 Ideation
This course is an understanding of the ideation process which leads to product, service or business model development. Making use of modern hands-on learning techniques, the course interplays the fundamentals of innovation along with the perspectives of artists, marketers and practitioners who shape novel concepts and create successful brands. The course curriculum is divided into three modules, i.e., idea generation, assessment and prototyping. Key topics include but are not limited to semiotics, process of developing music ideas, idea visualization, international marketing determinants, the process of decision making, business plans crafting and pitching strategies.
Prerequisites: GE105, GE106
Credits: 3

GE/CH100 General Chemistry with Lab
Brief review of fundamentals including stoichiometry, atomic structure, and chemical bonding. Other topics include thermo chemistry, gas laws, properties of solution, and inorganic coordination compounds. Intended primarily for science/engineering majors.
Prerequisites: None
Credits: 4

GE/EL100 Introduction to Electrical Circuits with Lab
The course covers the following topics: a) Electrical Quantities and Circuit Variables (charge, current, voltage, resistance, power and energy units), b) Circuit Modelling (sources, circuit elements, Ohm’s law and Kirchhoff’s laws), c) Circuit Reduction Techniques (series, parallel, voltage divider, current divider, delta-star conversion, voltage and current source conversions), d) Circuit Analysis Techniques (mesh and loop current analysis, node voltage analysis), e) Circuit Theorems (maximum power transfer, superposition, Thevenin and Norton), f) Energy Storage Circuit Elements, g) Complex Number Theory (complex plane, polar forms, conversions), h) AC Circuits (sinusoidal waveforms, phase, R.M.S. average values, phasors, analysis using node voltages, loop currents and branch currents).
Prerequisites: None
Credits: 4
GE/EL170 Introduction to Design Systems with Lab
Topics to be covered in this course include Logic gates and Boolean Algebra, Combinational Logic, Arithmetic Circuits and common MSI Logic Circuits, Latches, Flip-flops, Registers and Counters, NMOS and CMOS based Logic Gates. The course also includes lab hours with examples based on Digital systems design using Matlab SW.
Prerequisites: MATH150
Credits: 4

GE/ENG157 Semiotics and Film, an Introduction
Aims to introduce students to the different approaches to studying film through semiotic analysis. The course explores how a society produces meanings and values in a communication system called semiotics, and specifically focuses on the medium of film. It familiarizes students with the industrial context of film production and film technology and examines film both as narrative and semiotic form. The course provides a brief overview of the language, the history and the reception of film through the examination of cinematic codes and conventions while considering a general theory of signs. By analyzing specific movies, students will learn to recognize different film movements and genres and discuss ideas of social, national, gender, and politics representations.
Prerequisites: GE105, GE106
Credits: 3

GE/ENG200 Introduction to Linguistics
Explores the field of linguistics, and serves as a general introduction to the nature, history and use of human language, speech and writing with a focus on English. During the semester, students will investigate the basic theories and methods of the different areas of linguistics, including phonetics, phonology, morphology, syntax, and semantics. Topics include the intricate rule systems that govern language, the similarities and differences among languages, and how spoken language relates to written language.
Prerequisite: GE105; Co-requisite: GE106
Credits: 3

GE/ENG204 Language and Gender
Explores the complex relationships between gender and language structure, use and change, integrating perspectives from sociolinguistics and gender theory. Through readings, lectures, class discussions, and data analysis, students learn about gender-based differences in language use and communication and gender as a social construct that is shaped through language use; explore cross-cultural perspectives on language and gender; and examine the implications of language and gender research in institutional contexts, such as education, law, the media, and business. This course will appeal to students interested in a variety of professional fields, including English language teaching, journalism, psychology, and business.
Prerequisites: GE105, GE106, ENG200, ENG202
Credits: 3

GE/ENG205 Introduction to Translation Studies
Introduces students to the history and function of translation in society. Students learn the multiple ways in which translators work in multilingual and multicultural environments while they become familiar with the main theoretical streams in Translation Studies. Students understand the importance of translation as an area of study and come to appreciate the age-old role translators have played as mediators between societies and cultures. Students gain hands-on translation practice by translating texts from English into Greek.
Prerequisite: GE105, GE106; Co-requisite: ENG200
Credits: 3

GE/ENG215 (GE) Creative Writing
Introduces students to Creative Writing in its most varied application, from writing for the media, advertising and the arts to experiments in the lyric essay, fiction and poetry; the attraction of this course is in its multi-genre and inter-disciplinary application. Students interested in journalism, script-writing, and creative non-fiction, will gain from this introduction as much as those interested in the beginnings of poetry and fiction writing. Readings will take place in the craft of the lyric, non-fiction essay, art reviews, advertisement messages, script writing, story, and poetry. Students learn the basic strategies for writing in multiple, non-academic styles while focusing on the genre of their choice.
Prerequisites: GE105, GE106, ENG220 (and by instructor’s consent for non-BAELL students)
Credits: 3
GE/ENG220 Introduction to Literature
Introduces students to literature by providing a broad overview of the three major genres: the short story, poetry, and drama, with some exposure to critical theory; discusses the elements of fiction, poetry and drama, such as the role of setting, character, plot, theme, style, imagery, symbolism, metaphors, and tone in fiction and poetry, and the differences between ancient Greek and Shakespearean theatre. Students are introduced to representative texts and the historical/cultural contexts that produced them.
Prerequisites: GE105; Co-requisite: GE106
Credits: 3

GE/ENG225 Women Writers
Introduces students to a comparative approach to literature, gender theory and literary theory, by examining texts by women writers from different backgrounds, namely the UK, US, and Greece. Issues explored include: how (and if) texts by women differ from texts by men, recurring themes in women’s writing and the way these have changed through the course of the 20th century, and the ways writing challenges or reinforces existing cultural norms about gender. Writers whose work will be studied is determined by the instructor, these have included, but are not limited to: Virginia Woolf, Kate Chopin, Flannery O’Conner, Toni Morrison, Lilika Nakou, Margarita Lymberaki, Zyranna Zateli.
Prerequisites: GE105, GE106, ENG220
Credits: 3

GE/ENG230 Modern Greek Literature in Translation
Explores the main aesthetic, political, and cultural questions that inform major works of the 19th and 20th centuries in both Modern Greek poetry and prose. It consists of selections and excerpts from the works of such authors as Kavafis, Katzankakis, Seferis, Elytis, Taktsis, Galanaki, etc. placed in their broader European literary landscape. Emphasis will be given on various aesthetic movements and sociopolitical issues such as nationalism, diaspora, immigration, gender, group and individual identity, relations between the center and the periphery, and globalization.
Prerequisites: GE105, GE106, ENG205, ENG220
Credits: 3

GE/GEN100 Introduction to Engineering with Design Lab
Includes an overview of the problems, perspectives, and methods of the engineering profession. Modelling of real-world problems for purposes of optimization, decision-making and design is analyzed. Practical techniques of problem formulation and analysis are also presented. Additionally, practice drawings are explained, and assigned drawings are completed by students both during lab periods and outside of class.
Prerequisites: None
Credits: 4

GE/IT100 Information Literacy and Technology Basics
Enhances students’ personal productivity and problem solving skills by applying information technologies to problem situations and by designing and using small information systems for individuals or groups. The course enables students to improve their skills as knowledgeable workers in the field. Personal productivity concepts are explored through the use of the features of software applications such as spreadsheets, databases, presentation graphics, and Web authoring.
Prerequisites: None
Credits: 3

GE/MATH150 College Calculus
Introduces functions and graphs, continuity and exponential functions. Standard topics to be covered include concepts and rules of the differentiation of one variable functions, the meaning and application of derivatives in decision making management problems, integrals and the limits of one variable functions, as well as rules, interpretation, logarithm functions, definite integral, functions of several variables and application of partial derivatives. Students practice with various mathematical methods and learn how to model and analyze real world examples using mathematical tools and apply deductive reasoning as well.
Prerequisites: MATH90 or its equivalent
Credits: 3
GE/MATH200 Probability and Statistics for Non-Business Majors
Introduces discrete and continuous probability spaces, statistical independence, distributions, discrete and continuous random variables, expectations, moment generating functions, limiting distributions, estimation of parameters, confidence intervals, hypothesis testing with applications, linear regression and correlation and multiple linear regressions. Students learn to define probability as a measure of uncertainty and as a set function, apply the algebra of sets and use various counting techniques to determine elementary probabilities. The class includes calculation of probabilities, means, variances, and moment-generating functions, and investigates approximation theorems. Students also study basic statistical inference theory.
Prerequisite: MATH150
Credits: 3

GE/MATH250 Calculus II
Develops different mathematical techniques and investigates various examples and applications, emphasizing in techniques and applications of derivatives and integration, multiple integrals, limits, continuity, series and polar coordinates.
Prerequisite: MATH150
Credits: 3

GE/MATH300 Discrete Mathematics
Covers the development of mathematical tools necessary for algorithmic applications in computer science. The course includes set theory and logic, various algebraic structures, graph theory, Boolean algebra, and computability theory. Students understand mathematical reasoning and logic, work with discrete structures to represent discrete objects and relationships between them, specify algorithms for certain classes of problems and appreciate the many application areas of discrete mathematics, from computer science and networking to chemistry, botany, linguistics, geography, business, and the Internet.
Prerequisites: IT150, MATH150
Credits: 3

GE/MATH350 Differential Equations with Linear Algebra
Develops different fundamental methods of solving first and higher order equations and analyzes essentials of matrix algebra, linear and nonlinear systems, power series solutions and Laplace transforms.
Prerequisites: MATH150
Credits: 3

GE/MU221 Music History I (Survey of Music History)
Surveys music chronologically from the Middle Ages to the present. Topics include chant and secular song in the middle ages, polyphonic music from its beginning through the thirteenth century, Ars nova, Renaissance music of the low countries, the music of reformation, music of the early baroque, Bach, Vivaldi, Haendel, Haydn, Mozart, Beethoven, Romantisim, Opera from the early 20th century.
Prerequisites: None; For non-music majors: GE142
Credits: 3

GE/MU323 Greek Music
Studies the most important fields of Greek Music from Classical Antiquity and Byzantine era to today’s traditional, classical and pop music. Topics include: Ancient Greek music, Music of the Hellenistic period, Music of the Byzantine Empire, Music during the Ottoman Empire, Greek folk music of the mainland, Crete and the islands. Urban songs (Rembetika), Greek Classical Music from the Ionian islands, the Greek National School of Music, contemporary classical music, pop, rock and other current streams.
Prerequisites: None; For non-music majors: GE142
Credits: 3

GE/MU324 American, Jazz, Pop Music
Studies important issues connected with America’s music: the art of improvisation; the role of composition; innovation and tradition; individuality and style; instruments and forms. Examination of the formation of the roots of American music, and issues of race. Students will learn how to appreciate Native American music, Delta blues, country, New Orleans jazz, New York swing and bebop, Classical American music and pop if they are unfamiliar with it, and to deepen their understanding.
Prerequisites: None; For non-music majors: GE142
Credits: 3
GE/MU325 World Music and Cultures
Studies the music and musical cultures from around the world. Musical traditions throughout the world are considered through analytical, social, and aesthetic approaches. Introduction to the music and contexts of South America, Africa, India, Japan, and Indonesia. Topics include popular and folk music, music and ritual, communication, and self-expression, with consideration of modal structures, instruments, forms, and performance practices. Discussion of issues such as orientalism (i.e., Western representations of the Orient) and the need to develop cultural identities in once-colonized countries. (This course fulfills the Interdisciplinary and Intercultural category requirement).
Prerequisites: None; For non-music majors: GE142
Credits: 3

GE/MU326 Words and Music: from the Middle Ages to the Present
Examines different approaches to word-music relationships in a broad range of periods and genres. Combining text (whether sung or implied) and music adds another layer to both elements reinforcing meaning and feeling. Students will explore some of these rich interactions in such diverse and chronologically disparate genres as the troubadour song, the Renaissance erotic madrigal, the German Lied, the program symphony, as well as modern combinations of words and music. We will consider how the elements of the text (syntax, rhyme, form, alliterations, etc.) dictate particular musical decisions, but also how the music underlines, attenuates, or even subverts the meaning of the words. Concepts to investigate include irony, musical rhetoric, intertextuality, and, even, “silence.”
Prerequisites: None; For non-music majors: GE142
Credits: 3

GE/NASC100 Physical Science
Provides an interdisciplinary approach to the physical sciences. The course covers Newtonian physics and then moves on to some aspects of quantum theory and nuclear physics. Students explore how different elements interact in chemical reactions. In the second half of the course, students see how several basic principles are applied in such fields as astronomy, geology, and meteorology. Laboratory classes are used to illustrate concepts discussed in the lectures. No prior knowledge of physics or chemistry is assumed.
Prerequisites: GE105, IT100, MATH150
Credits: 4

GE/PH100 Physics with Lab
Focuses on basic and current understandings of physics’ problems and principles. Some of the topics to be studied include motion, forces, energy, and chemical reactions. Students will also be learning about machines, electricity, and magnetism. As students learn about each of the abovementioned topics, they will be conducting laboratory activities. For these activities students will be paired with one or more of their classmates.
Prerequisite: MATH150
Credits: 4

GE/PH200 General Physics II
Focuses on fundamental topics of physics including waves, optics, sound, heat, electricity, circuits magnetic and electromagnetic fields, and thermodynamics.
Prerequisites: MATH150, PH100
Credits: 4

GE/PSY101 General Psychology
Provides a general introduction to psychology - the scientific study of behavior and mental processes. This course covers such topics as memory, learning, sensation, perception, attitudes, conformity, persuasion, motivation and the study of the nervous system. Students gain an increased awareness of the broad range of phenomena investigated by psychologists and a greater ability to understand and critique psychological research. This course is not intended for students with a major or minor in psychology.
Prerequisite: GE105; Co-requisite: GE106
Credits: 3

GE/PSY210 Educational Psychology
Introduces the field of educational psychology and explores the development of cognitive functions and language, individual and cultural differences, and research on teaching and learning. The course also covers learning theories, developmental theories, issues of motivation, emotion, class management, intelligence and diversity, as well as understanding measurement and assessment, teaching and learning styles and special needs.
Prerequisites: GE105, GE106
Credits: 3
**GE/PSY240 Social Psychology**  
Introduces students to the scientific study of the way people think about, feel, and behave in social situations. It involves understanding of how people influence and are influenced by others around them. The topics covered will examine how individuals perceive themselves and others, how individuals interact with others, and how individuals think in social settings. The primary goal of this course is to provide students with an understanding of the perspectives, research methods, and empirical findings of social psychology. An equally important goal will be to develop critical and integrative ways of thinking about theory and research in social psychology.  
Prerequisites: GE105, GE106, PSY150  
Credits: 3

**GE/PSY250 Introduction to Child-Centered Play Therapy**  
Provides an introduction to the field of Play Therapy including the theories and principles involved in its practice. By the nature of the subject, learning-by-doing is emphasized. The course involves hands-on experience directly associated with the theoretical ideas outlined in the course readings, with the overall aim to facilitate self-expression and the development of one’s creative potential in a non-threatening way. At the end of the course, students will have gained an understanding of the use of Play Therapy as a healing modality and how it can be applied when working with various age groups for clinical and non-clinical populations.  
Prerequisites: GE105, PSY101 OR PSY150, PSY220  
Credits: 3

**GE/PSY260 Statistics for the Social Sciences**  
Provides knowledge of how statistics are used to evaluate theories in the social sciences. Students will become familiar with a variety of descriptive and inferential statistical techniques such as: frequency distributions, descriptive statistics, probability, correlation, and hypothesis testing. During the course, students will learn how to use SPSS (a computer statistical program for Social Sciences) to carry out statistical procedures.  
Prerequisites: MATH90 or its equivalent  
Credits: 3

**GE/PSY280 Social Psychology Seminar**  
Constitutes an interdisciplinary field of study, concerned with how psychological processes help illuminate concepts, principles and theories social scientists use to better understand other areas of interest like politics, culture, sociology or marketing. Various contexts may be addressed, including cultural, social, historical, economic, and political with the primary goal of advancing students' understanding of how such factors impact the lives of populations. Some of the major lines of advanced social psychology theory and research as well as their applications to human life can be explored in this course. The applications of this course may include group decision-making, personality characteristics of leaders and followers; racism and stereotyping, and their impacts; the influences of emotion and cognition on decisions; the origins of violence and genocide; and relations and interactions within and between groups as in business relations and the workplace in general.  
Prerequisites: GE105, GE106, PSY150, PSY200; Co-requisite: PSY240  
Credits: 3

**GE/PSY345 Fundamentals in Music Therapy**  
Introduces the science of Music therapy including basic concepts, knowledge, and skills. Addresses the challenges that affect clients who benefit from music therapy, and provides a platform for reflection of one’s own experiences. Case material showcasing work in a range of settings will be linked with the psychological theories that underpin clinical practice. Included are improvisation techniques used in music therapy, encouraging exploratory thinking about the emotional qualities of music, and is suitable for those wishing to broaden their understanding of how music can be utilized in health and education as a therapeutic tool.  
Prerequisites: GE105, PSY101 or PSY150; Co-requisite: GE142 or MU221  
Credits: 3
Business Administration Courses

Note: Catalog courses that may be used to fulfil general education requirements are designated as (GE)

Core Requirements

BUS220 Accounting I
Introduces students to the basic concepts and principles of accounting while providing special emphasis to the collection, classification, and interpretation of data about business enterprises. Topics to be covered include the functions of an accounting system, the completion of the accounting cycle, and the practice and preparation of financial statements.
Prerequisite(s): GE105, IT100, MATH90 or its equivalent
Credits: 3

BUS221 Accounting II
Accounting II is a continuation of Accounting I. The course covers the analysis of financial statements and develops methodological approaches and tools for interpreting the accounting information provided by the Financial Statements. The course looks at concepts such as profitability, liquidity, and inventory evaluation, and how these issues can be addressed effectively in order to improve the performance of a business.
Prerequisite(s): GE105, IT100, BUS220, MATH90 or its equivalent
Credits: 3

BUS240 Business Statistics
Presents the fundamental theoretical concepts and methods of statistics with applications to decision-making in business. Topics include the description and interpretation of data, laws of probability distribution, inferential parametric statistics with an applications approach, the concept of uncertainties and the computation of probability for the occurrence of different events.
Prerequisite(s): GE105, IT100, MATH90 or its equivalent
Credits: 3

BUS250 Microeconomic Theory
Examines the market mechanisms and forces that create movements in prices of goods and services. The course analyzes the behavior of consumers, costs of production, the distribution of income and the price determination of factors of production, as well as the determination of the level of output that must be produced by a firm or an industry under different market structures to maximize profits or minimize losses.
Prerequisite(s): GE105
Credits: 3

BUS251 (GE) Macroeconomic Theory
Covers the overall economic performance of a national economy. The course deals with the determination of the level of the gross national product, employment, prices of goods and services, and the growth of an economy. The course also analyzes the role of money and banking systems, the impact of fiscal and monetary policy on the level of output, employment, prices and the effect of international transactions on a national economy.
Prerequisite(s): GE105; Co-requisite(s): GE106
Credits: 3

BUS305 Principles of Management
Introduces students to generic management theories, principles and concepts as expressed by academics and business experts. In the course, students acquire knowledge of key management issues and functions, soft skills and management competencies. More explicitly, students learn how to critically investigate and implement management functions such as planning, organizing, directing and controlling, and develop communication, motivation and decision-making skills in a management context.
Prerequisite(s): GE105; Co-requisite(s): GE106
Credits: 3

BUS320 Principles of Marketing
Examines marketing as an integral part of business management within the wider scope of the firm's social responsibility and protection of the environment. The course analyzes the function of marketing in an integrated business management context and explores topics such as modern marketing practices, the description of the marketing process, environmental factors, consumer behavior, and the marketing mix.
Prerequisite(s): GE105; Co-requisite(s): GE106
Credits: 3
BUS330 Corporate Finance I
Introduces students to the fundamentals of business finance and develops a conceptual framework for corporate financial management. Topics covered include: the role and value of money within different time periods, the acquisition and allocation of funds, and the basic concepts and techniques of working capital management. The course also emphasizes the use of information by business managers, as to where it can be obtained and how it can be used in investments that involve financing, planning, and control responsibilities.
Prerequisite(s): GE105, GE106, IT100, BUS220, BUS221, BUS250, MATH90 or its equivalent
Credits: 3

BUS340 Management Information Systems
Presents tools, techniques, and methodologies of information critical to understanding problems related to the development and use of management systems. The course integrates computer hardware and software concepts with a classical methodology for developing business information systems. It presents the relevant factors in the development of information systems, while discussing the problems of analyzing, designing, and implementing such systems. The collection, storage, and processing of data, reengineering of business processes, and the redesign of the organization’s products, services, procedures, and management structures are also covered.
Prerequisite(s): GE105, GE106, IT100
Credits: 3

BUS350 Operations Management
Analyzes the key elements, tools and techniques of operations management as they apply to production planning and the control of goods and services offered by manufacturing or service organizations. Topics include product design, process selection, design of facilities and jobs, quality improvement processes, and integration of these elements into an operating system.
Prerequisite(s): GE105, GE106, BUS305
Credits: 3

BUS390 Human Resources Management
Provides an understanding of the theories, practices, and contemporary problems in human resource management. Topics include job analysis, recruitment, training and employee development, affirmative action, health and safety, performance appraisal, labor relations, compensation, and productivity improvements. The course also discusses how human capital contributes directly to the success of today’s organizations as well as to the role and performance of the staff manager in business enterprises.
Prerequisite(s): GE105, GE106, GE115, BUS305
Credits: 3

BUS395 Project Management
Introduces students to methodologies for managing projects within an organizational context, including the processes of initiating, planning, executing, controlling, reporting and closing a project. The course investigates project variables such as scope, time and cost, topics of project integration, quality control, and risk management, the management of changes in organizations that introduce or service information systems. Students learn how to identify project champions, work with user teams, and document project management.
Prerequisite(s): GE105, GE106, GE115
Credits: 3

BUS499 Business Capstone
In their senior year, students will engage in a three-credit capstone project, which gives them the opportunity to review and apply relevant theories, tools, techniques and strategic-management concepts which they have acquired during their entire course of studies, in combination with whatever working and technological experiences they may possess, to a real-world environment. The course focuses on the strategic management of the entire organization. The development of a strategic process comprises the systematic analysis and evaluation of an organization’s goals, structure, policies, and strategies designed to effectively cope with specific external opportunities and threats. Students will be placed in a realistic professional team situation within which decision-making must consider not only technological issues but also issues of projects, personnel, and risk management, colleague and client interpersonal relationships, as well as time and resource constraints. Students learn to make objective strategic decisions and to justify them orally and in writing. This is an integrative capstone course for graduating business administration students.
Prerequisite(s): Successful completion of all core business requirements
Credits: 3
Electives

**BUS200 (GE) Perspectives on Business in Society**
Introduces students to the basic concepts, principles, management objectives, and contemporary issues of business organizations. The course covers a wide range of topics including, conducting business nationally and internationally, the ethics and social responsibilities of business enterprises, product development, pricing of commodities, and the legal environment of business organizations.
Prerequisite(s): GE105; Co-requisite(s): GE106
Credits: 3

**BUS212 (GE) Intercultural Organizational Communications**
Prepares students for intercultural communication challenges in organizations by addressing the communication skills necessary for effective cross-cultural organizational interactions. This course examines the cultural variables that may define as well as determine the course and success of these interactions within and between organizations. It focuses on the application of intercultural communication skills and insights to various fields, organizations, and situations in order to achieve organizational goals.
Prerequisite(s): GE105, GE106
Credits: 3

**BUS300 Business Law**
Thoroughly examines legal systems and how they affect business operations. The course deals with concepts of law as related to business, including contract law, sales, commercial law, company law, and civil law. The course also analyzes the causes of unfair competition, methods of securing business property rights, the establishment of different types of business forms, the use and legal aspects of financial instruments, and the procedures and legal consequences of bankruptcy.
Prerequisite(s): GE105, GE106; Co-requisite(s): GE115
Credits: 3
Aviation Courses

Core Requirements

AVIA100 Aviation Fundamentals
Provides a well-rounded academic foundation in aviation and flight. It begins with a history of aviation followed by a study of the basic scientific principles of flight including aviation weather. Students next learn about the infrastructure supporting aviation, such as airports, airlines, manufactures and air navigation services providers and explore careers in each field. The course concludes with an exploration of flight operations and aircraft maintenance.
Prerequisite(s): None
Credits: 3

AVIA210 Global Aviation Management and Law
Covers the fundamental aspects of the management of airlines and airports as well as the development of air law including international and national regulatory functions, rights and liabilities of aviators and operators. It also provides a study of international conventions, agreements, and associations such as the International Civil Aviation Organization, International Air Transport Association, and Airports Council International focusing on an examination of the global aviation priorities.
Prerequisite(s): AVIA100
Credits: 3

AVIA220 Flight Operations
Students master the fundamental knowledge of flying, and the planning and conducting VFR cross-country flights. Students will be introduced to the recognition and assessment of significant information and effective decision-making in flight operations including weather, regulations, and human factors as well as learn about basic aerodynamics and aircraft propulsion.
Prerequisite(s): AVIA100
Credits: 3

AVIA230 Principles of Aerodynamics
This course focuses on the study of the physical principles of airplane aerodynamics, thereby fostering an appreciation of the factors affecting aircraft performance, stability and control, and special flight conditions often experienced by commercial pilots of fixed-wing and rotary aircraft as well as UASs.
Prerequisite(s): PH100
Credits: 3

AVIA310 Aviation Safety, Security & Human Factors
Students explore human related processes as affected by flight and develop insights in addressing them and learn to apply these insights to assessing and improving the performance of flight crews, air traffic controllers, and other operations personnel. Furthermore, they develop an appreciation of the importance of aviation system safety and security focusing on operational and regulatory practices.
Prerequisite(s): AVIA210, AVIA220
Credits: 3

AVIA320 Air Transport Operations
Analyzes the economic and administrative factors involved in air transport operations both from an airline as well as airport perspectives. An emphasis is placed on ground operations systems, marketing, demand analysis, pricing, route structure, fleet planning and financing.
Prerequisite(s): AVIA210, AVIA220
Credits: 3

AVIA410 Aviation Design Seminar
This culminating experience in aviation exposes students to problems and situations that will be intellectually stimulating, require the application of their knowledge, values, skills, and technical competence to current problems in the aviation industry acquired throughout the program. Can be taken either as a seminar course or internship.
Prerequisite(s): Completion of all major requirements or permission by program director
Credits: 3
**Electives**

**BUS310 (GE) Organizational Behavior**
Introduces students to theoretical and practical aspects of human behavior and management in the workplace. The course focuses on understanding and attaining competencies necessary for effective performance at the organizational, group, and individual levels within the firm. Topics include motivation, organizational structure, job design, group dynamics and teamwork, leadership, conflict resolution, power relationships, and organizational change.

Prerequisite(s): GE105, GE106, GE115, BUS305

Credits: 3

**BUS396 Knowledge Management (KM)**
Provides a study for understanding the process of managing both personal and organizational knowledge, exploring the fundamentals of knowledge management (KM) using theoretical perspectives and real-life cases of successful organizations. The course curriculum lies in the multidisciplinary nature of KM and interplays different perspectives which view KM either as corporate strategy, a dimension of human resources management, tool for organizational effectiveness or an application for actual use. Course topics include, but are not limited to, knowledge management models, organizational ambidexterity, knowledge sharing and communities of practice (CoP), and absorptive capacity.

Prerequisite(s): GE105, GE106, BUS305

Credits: 3

**EL310 Introduction to Unmanned Aircraft Systems**
The course provides an overview of UASs structure and functionality. It includes a description of the different designs of UAS and the purposes of each of them. Students will be able to understand the difference between a toy UAS (drone) and a commercialized one, and to analyze the main functions of a UAS: detecting water masses, disease detection, soil management, irrigation and drainage management, rhino protection, land surveying and many more. The students also get to know the limitations of UAS, its legislation framework (nationally and internationally), the technical capabilities of the UAS and the type of equipment it can carry.

Prerequisite(s): MATH150, PH100

Credits: 3

**IT360 Human Computer Interaction**
Introduces Human-Computer Interaction, the philosophy of designing user interfaces, available design techniques and methodologies, various interaction styles, available design guidelines and user interface management systems. Usability and accessibility of user interfaces is then examined and several usability evaluation methods are analyzed.

Prerequisite(s): IT100, IT150, IT320

Credits: 3

**MK360 Services Marketing**
Introduces students to the distinct thought and application of services marketing. Focuses on issues of service design, service quality, service recovery and the special characteristics of services offerings and clients. Enables students to develop academic understanding, and technical skills in marketing service offerings.

Prerequisite(s): GE105, GE106, GE115, BUS320, MK330

Credits: 3

**PM400 Project Risk Management**
Provides students with a thorough understanding of Risk Management as a systematic, iterative approach which includes risk planning, identification, qualitative analysis, quantitative analysis, response planning, and monitoring & control. Topics covered in this course are techniques in identifying risks (brainstorming, reviewing historical data, affinity diagrams, and expert interviews), quantitative and qualitative risk analysis (Monte Carlo simulations, decision tree analyses, probability/impact matrices, expected value), and the crafting and execution of risk response strategies and techniques.

Prerequisite(s): GE105, GE106, GE115, BUS395

Credits: 3
Engineering Management Courses

CIV100 Civil Engineering System
An introduction to civil engineering design. Analyze needs, determine capacities and develop design alternatives for civil engineering systems. Structures, water and wastewater facilities, geotechnical and transportation systems are studied.
Prerequisite(s): GEN100
Credits: 3

EL100 (GE) Introduction to Electrical circuits with Lab
The course covers the following topics: a) Electrical Quantities and Circuit Variables (charge, current, voltage, resistance, power and energy units), b) Circuit Modelling (sources, circuit elements, Ohm’s law and Kirchhoff’s laws), c) Circuit Reduction Techniques (series, parallel, voltage divider, current divider, delta-star conversion, voltage and current source conversions), d) Circuit Analysis Techniques (mesh and loop current analysis, node voltage analysis), e) Circuit Theorems (maximum power transfer, superposition, Thevenin and Norton), f) Energy Storage Circuit Elements, g) Complex Number Theory (complex plane, polar forms, conversions), h) AC Circuits (sinusoidal waveforms, phase, R.M.S. average values, phasors, analysis using node voltages, loop currents and branch currents).
Prerequisite(s): None
Credits: 4

GEN100 (GE) Introduction to Engineering with Design Lab
Includes an overview of the problems, perspectives, and methods of the engineering profession. Modelling of real-world problems for purposes of optimization, decision-making and design are analyzed. Practical techniques of problem formulation and analysis are also presented. Additionally, practice drawings are explained, and assigned drawings are completed by students both during lab periods and outside of class.
Prerequisite(s): None
Credits: 4

GEN101 Engineering Mechanics
Focuses on the behavior of mechanical and structural systems under load. Topics include effects and distribution of forces on rigid bodies at rest; kinematics and kinetics of particles; force systems; shear and moment diagrams; force-stress-strain-deformation relationships, including torsion and combined loading; buckling and stability analysis; and, stress/strain transformation.
Prerequisite(s): PH100
Credits: 3

IT240 Computer Architecture
Introduces students to the organization and architecture of computer systems, digital logic, low level instructions execution and system design. In particular, by the end of the course the student will be able to: understand digital logic, fundamental building blocks (logic gates, flip-flops, counters, registers, PLA) and logic expressions; explain how a computer fetches from memory and executes an instruction; explain the relationship between the representation of machine level operation at the binary level and their representation by a symbolic assembler; write small programs and fragments of assembly language code to demonstrate an understanding of machine level operations; and use computer simulation packages to investigate assembly language programming.
Prerequisite(s): IT150
Credits: 3

MATH150 (GE) College Calculus
Introduces functions and graphs, continuity and exponential functions. Standard topics to be covered include concepts and rules of the differentiation of one variable functions, the meaning and application of derivatives in decision making management problems, integrals and the limits of one variable functions, as well as rules, interpretation, logarithm functions, definite integral, functions of several variables and application of partial derivatives. Students practice with various mathematical methods and learn how to model and analyze real world examples using mathematical tools and apply deductive reasoning as well.
Prerequisite(s): MATH90 or its equivalent
Credits: 3
PH100 (GE) Physics with Lab
Focuses on basic and current understandings of physics’ problems and principles. Some of the topics to be studied include motion, forces, energy, and chemical reactions. Students will also be learning about machines, electricity, and magnetism. As students learn about each of the abovementioned topics, they will be conducting laboratory activities. For these activities students will be paired with one or more of their classmates.
Prerequisite(s): MATH150
Credits: 4

PH200 (GE) General Physics II
Focuses on fundamental topics of physics including waves, optics, sound, heat, electricity, circuits magnetic and electromagnetic fields, and thermodynamics.
Prerequisite(s): MATH150, PH100
Credits: 4
**Entrepreneurship Major Courses**

**GE113 Values, Ethics and Social Responsibility**  
Introduces special topics and themes related to issues of ‘Values, Ethics & Social Responsibility’. This interdisciplinary course focuses on one of several different disciplines each term, with professors from across the disciplines presenting the material from the perspective of their subject areas. The course involves discussion and critical analysis of various case studies and issues, which will be explored by students from the perspective of their own communities and cultures. The course also explores how differences in world view affect the wider communities.  
Prerequisite(s): GE105, GE106; Co-requisite: GE115  
Credits: 3

**BUS205 Strategy Fundamentals (Global Entrepreneurship)**  
Addresses various aspects of global entrepreneurship and the opportunities available to start-ups and small businesses in the global environment. It explores the opportunities that entrepreneurs create, the challenges they encounter, and the ways in which they exploit opportunities and address challenges to conduct business across national borders and cultures. This course also examines entrepreneurship across different countries and cultures and the role of cross-cultural customs and institutional networks in affecting global and immigrant entrepreneurship.  
Prerequisite(s): GE105, GE106; Co-requisite(s): BUS305  
Credits: 3

**BUS310 (GE) Organizational Behavior**  
Emphasizes the major theories, practices, motivations, and leadership examples and responses to change in organizations. The course provides a comprehensive, in-depth analysis of the field of organizational behavior, surveys and analyzes the major theories and approaches to organizational theory, and emphasizes an understanding of organizational behavior as a phenomenon.  
Prerequisite(s): GE105, GE106, GE115, BUS305  
Credits: 3

**BUS360 Entrepreneurship**  
Provides an understanding of the business challenges that confront entrepreneurs and their approaches to business opportunities. The course emphasizes real world information gathering and integrated approaches needed for successful business endeavors. The course covers entrepreneurial processes, skills such as the mobilization and organization of resources, and business and marketing plans.  
Prerequisite(s): GE105, GE106; Co-requisite(s): BUS305  
Credits: 3

**BUS363 Entrepreneurial Social Media**  
Provides best practices and hands-on experience on the usage of the leading Social Media & Digital Marketing tools employed by contemporary businesses for promoting products, engaging customers and relevant stakeholders. In the era of technology consumerization, this course will give students a head start by exposing them to the basics of the configuration and technical implementation of the leading Social Networking, Social Analytics, Online Advertising, and Web Content Management platforms.  
Prerequisite(s): IT100, BUS/IT340  
Credits: 3

**BUS365 Innovation and New Product Development**  
Provides the basic theoretical models on innovation such as open, disruptive and business model innovation, combined with global best practices and scientific methods to guide new product development leaders and their teams throughout the product development cycle. The course emphasis is on the models, skills and techniques necessary for delivering a customer and market driven product vision, building an energized cross functional product development team, and achieving strategic product focus by identifying priorities and making the right trade-offs.  
Prerequisite(s): IT100, BUS/IT340  
Credits: 3
BUS367 Virtual Entrepreneurial Simulation Game
Provides students with the necessary tools and real-life business practices in order to put into practice their innovative ideas which they will develop throughout the minor. Students will work in a computer-based simulation game in order to run their own virtual company, gaining hands-on experience of the challenges of business and entrepreneurship. The simulation focuses on having students conduct market, competitive, and environmental analysis in order to take appropriate actions with respect to the organization, sales and marketing, finance, and operations.
Prerequisite(s): GE113, BUS205, GE/BUS310, BUS360, BUS363, BUS365, BUS368
Credits: 3

BUS368 Ideation
Provides an understanding of the ideation process which leads to product, service, or business model development. Making use of modern hands-on learning techniques, the course interplays the fundamentals of innovation along with the perspectives of artists, marketers, and practitioners who shape novel concepts and create successful brands. The course curriculum is divided into three modules, i.e., idea generation, assessment, and prototyping. Key topics include but are not limited to semiotics, process of developing music ideas, idea visualization, international marketing determinants, the process of decision making, business plans crafting, and pitching strategies.
Prerequisite(s): GE105, GE106
Credits: 3
Finance Courses

Core Requirements

**FI404 Corporate Finance II**
Concentrates on how to use financial concepts and techniques to solve practical business problems. Specifically, the course analyzes the role of a financial manager in making decisions regarding capital budgeting and the cost of capital. Capital structure, dividend policy, mergers and acquisitions, and the interaction between financing and investment decisions under varying conditions of certainty and uncertainty are also discussed.
Prerequisite(s): GE105, GE106, GE115, IT100, BUS220, BUS221, BUS240, BUS250, BUS251, BUS330
Credits: 3

**FI406 Financial Markets and Institutions**
Introduces students to the organization, functions, and managements of financial markets and institutions. Topics include the structure of financial markets and institutions, the management of assets and liabilities of institutions, the financial instruments and products offered for borrowing and investing, the flow of funds, the term structure of interest rates, and the effects of economic conditions and government policies on the performance of financial institutions and markets.
Prerequisite(s): GE105, GE106, GE115, IT100, BUS220, BUS221, BUS240, BUS250, BUS251, BUS330; Co-Requisite: FI404
Credits: 3

**FI408 International Finance**
Explores the fundamental principles and issues in the field of international finance. The course examines the organization and functions of foreign exchange markets, the participants’ effects on the performance of the markets and the balance of international payments. The course also looks at the determination and forecasting of exchange rates, the measurement and management of foreign exchange risks, the financing of international trade and investments, and capital budgeting in multinational corporations.
Prerequisite(s): GE105, GE106, GE115, IT100, BUS220, BUS221, BUS240, BUS250, BUS251, BUS330
Credits: 3

**FI412 Investment and Portfolio Management**
Analyzes the concepts and principles of financial investments including the different types of securities issued by government and business. The course also examines the structure and operations of equity securities markets, portfolio construction, revision and measurement of performances, as well as the Capital Asset Pricing Model, the Arbitrage Pricing Theory, and the development of investment strategies and control.
Prerequisite(s): GE105, GE106, GE115, IT100, BUS220, BUS221, BUS240, BUS250, BUS251, BUS330, FI404, FI406
Credits: 3

**FI414 Corporate Financial Strategy**
Examines how the tools and concepts of modern finance are applied to maximize financial performances. The course covers topics such as financial analysis and forecasting; cost of capital and capital budgeting; capital structure; mergers and acquisitions and corporate financial policies. Case studies are used to illustrate how the application of concepts of corporate financial strategy can lead to better financial decisions for the enterprise.
Prerequisite(s): GE105, GE106, GE115, IT100, BUS220, BUS221, BUS240, BUS250, BUS251, BUS330, FI404
Credits: 3

**FI420 Introduction to Derivatives and Risk Management**
Explains what derivatives are and how they can be prudently used within the context of any underlying business activities. The course introduces the wide range of markets for financial derivatives and offers a broad overview of different types of derivatives, such as futures, options, swaps, and structured products-while focusing on the principles that determine market prices. Finally, the course explores the importance of financial derivatives to risk management in a corporate setting.
Prerequisite(s): GE105, GE106, GE115, IT100, BUS220, BUS221, BUS240, BUS250, BUS251, BUS330, FI404, FI406, FI412
Credits: 3
Electives

**FI310 Financial Analysis**
Focuses on the identification, analysis, and interpretation of financial and management accounting information. Financial statements are analyzed to assess the financial health and performance of the organization, including bankruptcy risk. Other topics include planning and forecasting, budgeting, cash flow and breakeven analysis, and working capital management. In general, it includes techniques and tools for planning, control, and decision making in an effort to achieve organizational goals.
Prerequisite(s): GE105, GE106, GE115, IT100, BUS220, BUS221, BUS 240, BUS330
Credits: 3

**FI410 Money and Banking**
Examines the nature and the role of money and the banking system in an economy. Topics include the theories and functions of money; the scope and functioning of the financial system; financial markets and interest rate determination; the organization, management and supervision of commercial banks and other institutions; and money supply processes and monetary policies. The course examines the role and functions of the central bank, monetary standards and credit availability, and the impact of Europe’s currency unification on the banking system.
Prerequisite(s): GE105, GE106, GE115, IT100, BUS220, BUS221, BUS240, BUS251, BUS330
Credits: 3

**FI430 Mergers Acquisitions and Restructuring**
Mergers, Acquisitions and Restructuring are an important part of a company’s list of actions that may lead to its corporate goals. Strategies and tactics will be analyzed in detail. The purpose of this course is to identify the perspectives that an organization might have by applying the above actions. Issues such as measuring and creating value will be developed. Finally, consideration in financial planning and restructuring will be examined.
Prerequisite(s): GE105, GE106, GE115, IT100, BUS220, BUS221, BUS240, BUS250, BUS251, BUS330
Credits: 3

**FI450 Special Topics in Finance**
Concentrates on behavioral issues affecting financial markets and the corporate world. The course links the particularity of human behavior to aspects of the financial decision making process. The behavioral approach is introduced in issues such as market efficiency, risk assessment, investor behavior, capital structure, dividend policy, mergers & acquisitions and market timing.
Prerequisite(s): GE105, GE106, GE115, IT100, BUS220, BUS221, BUS240, BUS250, BUS251, BUS330
Credits: 3
Hospitality Management Courses

HM100 Introduction to International Hospitality Management
Introduces students to the international hospitality industry. It explores not only the history of hospitality, but also the latest developments in hospitality operations and its contemporary management techniques and principles. Throughout the course students are provided with insight on the operations and management of the various departments of hotels looking at these organizations in an international and comparative context. The course links the knowledge gained in the class with hands on experience gained in contemporary hospitality practice and through temporary employment in hotels, therefore students are given the opportunity to create their own experiences through the practica in hotels and restaurants.
Prerequisite(s): GE105; Co-requisite(s): GE106
Credits: 3

HM102 Introduction to International Tourism Management
Provides an introduction and overview to the international tourism industry. It explores contemporary practice and management techniques and principles that apply to the travel and tourism industry as well as explores the above techniques and practices in a comparative multinational context. Knowledge gained in class is coupled with practical experience gained through fieldwork and practica therefore tying theory with practice for students providing them with a well-rounded theoretical and practical educational experience.
Prerequisite(s): GE105; Co-requisite(s): GE106
Credits: 3

HM120 Hospitality Event Management
Introduces students to events and events management. Specifically, it enables students to plan and manage events, as it provides them with the knowledge for their development, operation, marketing and management. Such events include conferences, festivals, and games, in a local, regional, national and international context.
Prerequisite(s): GE105, GE106, GE115, HM100
Credits: 3

HM122 Food and Beverage Management
Discusses the operations and management of food and beverage. It is designed to provide students with the necessary knowledge to operate food and beverage establishments. Throughout the course students have the chance to acquire hands on experience on the processes and procedures of effective food and beverage control systems in areas such as budgeting, menu management, menu pricing, computer applications, and service quality. Students get the opportunity to gain practical experience in a restaurant environment as part of the course and thus prepare for the Industry Placement course.
Prerequisite(s): GE105, GE106, GE115, HM100
Credits: 3

HM200 Tourism Planning and Development
Provides students with an appreciation of tourism planning and development. The lectures will assist students to identify the key concepts and principles in tourism planning and the applied techniques in tourism destination development. Furthermore, stakeholders in the public and the private sector are identified, and the way that they are involved in the processes of planning and development of tourism are also discussed. The course also explores the way that the stakeholders interact and contribute to the host destinations. Finally, with a variety of case studies students explore various impacts of tourism development on tourism destinations as well as tourism sustainability development and management.
Prerequisite(s): GE105, GE106, GE115, HM100, HM102
Credits: 3

HM299 Industry Placement/Practicum
As part of this course students work at organizations involved in the hospitality and/or tourism industry. Having completed their taught courses, they should undertake a three-month internship. The purpose is to familiarize themselves with the current practices which are implemented by the particular sector, to develop skills that will contribute towards their future employment and their employability, as well as to apply the knowledge they have gained throughout their studies. Students will choose an organization/hospitality unit under the supervision of their Professors. They have the option to choose either between the hospitality-lodging sector i.e. hotels, or the travel and tourism sector i.e. conference centers, tour operators.
Prerequisite(s): HM100, HM102, HM120, HM122, HM200, MK330, MK360
Credits: 3
MK330 Consumer Behavior
Analyzes the theories and models of consumer behavior and examines the decision-making processes of individuals and households in obtaining and using goods and services. The course explores how consumers select, purchase, and use products and services, what influences their behavior, and what the implications are for developing marketing research. The course also explores the demographic differences of individual consumer groups and the cultural context of consumer behavior in a global economy.
Prerequisite(s): GE105, GE106, BUS320; Co-requisite(s): GE115
Credits: 3

MK360 Services Marketing
Introduces students to the distinct thought and application of services marketing. Focuses on issues of service design, service quality, service recovery and the special characteristics of services offerings and clients. Enables students to develop academic understanding, and technical skills in marketing service offerings.
Prerequisite(s): GE105, GE106, GE115, BUS320, MK330
Credits: 3
**IT Management Courses**

**Core Requirements**

**IT150 Programming Concepts**
Introduces programming using an object-oriented language. The course emphasizes problem solving and structured programming. Students completing the course should be able to: setup and use a visual software development environment; analyze and explain the behavior of simple programs involving the fundamental programming constructs covered by this unit; and modify and expand short programs that use standard conditional and iterative control structures and functions. Students design, implement, test, and debug a program that uses each of the following fundamental programming constructs: basic computation, simple I/O, standard conditional and iterative structures, and the definition of functions and write simple applications.
Prerequisite(s): None
Credits: 3

**IT160 Networking Fundamentals I**
Networking and telecommunications fundamentals including LANs, MANs, WANs, intranets, the Internet, and the WWW will be covered. Data communication and telecommunication concepts, models, standards, and protocols will be studied along with installation, configuration, systems integration and management of infrastructure technologies.
Prerequisite(s): None
Credits: 3

**IT200 Object-Oriented Programming**
Provides students with a good understanding of object-orientation programming and Java technologies. Equally important, students get hands-on experience with engineering programs in Java. They learn the basic language constructs as well as the most commonly used libraries, strings, and exceptions. Students work mostly in the computer laboratory using a popular programming environment.
Prerequisite(s): IT150
Credits: 3

**IT260 Database Management Systems**
Introduces the fundamental concepts and principles of designing, implementing and administering databases. Upon completion of the course students should be able to create logical data models of medium complexity, design the tables of a database and create the queries and reports required for using the database. Concepts such as normalization, concurrent processing, database administration, data distribution, integrity and security are thoroughly examined. SQL language as a data modeling and query language is also presented and the basic expressions are introduced.
Prerequisite(s): IT150
Credits: 3

**IT280 Systems Analysis and Design**
Covers the systems development life cycle. The course examines the requirements and tools for collecting and structuring data, process modeling and data modeling, interface design and data management. Students acquire skills in using tools and techniques such as interviewing, producing use cases, prototyping and generating UML diagrams. The course provides hands-on experience in designing a system following the 3-tier architecture (presentation, middleware, data storage).
Prerequisite(s): IT150, IT200
Credits: 3
Electives

IT240 Computer Architecture
Introduces students to the organization and architecture of computer systems, digital logic, low level instructions execution and system design. In particular, by the end of the course the student should be able to understand digital logic, fundamental building blocks (logic gates, flip-flops, counters, registers, PLA) and logic expressions; explain how a computer fetches from memory and executes an instruction; explain the relationship between the representation of machine level operation at the binary level and their representation by a symbolic assembler; write small programs and fragments of assembly language code to demonstrate an understanding of machine level operations; and use computer simulation packages to investigate assembly language programming.
Prerequisite(s): IT150
Credits: 3

IT400 Emerging Technologies and Themes
Addresses current and future trends in Information Technology. The course presents current market and research directions as influenced by consumers, industries and universities. Students learn the core concepts of information technology and its rapidly expanding role in solving problems and influencing decision making. This course discusses how emerging technologies evolve, how they can be identified and how they are affected by international, political, social, economic and cultural factors. Topics include the accuracy of past technology forecasts and means of improving such forecasts, international perspectives on emerging technologies, future customer trends and forecasting methodologies such as monitoring, expert opinion, trend analysis and scenario construction.
Prerequisite(s): IT150, IT200, IT280
Credits: 3

MK444 Electronic Commerce Management
Introduces students to digital economy, electronic commerce and electronic business operations. Most commonly encountered applications, business models, and entrepreneurial activities are explained both from technological and business perspectives. Essential components for building successful electronic commerce applications and business activities, capabilities and advantages of e-commerce technologies (i.e., how e-commerce technologies give birth to e-business, and the key information for Internet start-ups) will be also covered.
Prerequisite(s): GE105, GE106, GE115, IT100, BUS305, BUS340
Credits: 3
Marketing Courses

Core Requirements

MK330 Consumer Behavior
Analyzes the theories and models of consumer behavior and examines the decision-making processes of individuals and households in obtaining and using goods and services. The course explores how consumers select, purchase, and use products and services, what influences their behavior, and what the implications are for developing marketing research. The course also explores the demographic differences of individual consumer groups and the cultural context of consumer behavior in a global economy.
Prerequisite(s): GE105, GE106, BUS320; Co-requisite(s): GE115
Credits: 3

MK350 Marketing Research
Introduces students to the theory, applications and practices of marketing research. Topics include the development of marketing research plans; the significance of marketing research to business organizations; the application of marketing research techniques to marketing policies and planning. How information is used to identify marketing opportunities and problems, and to generate, refine, and evaluate marketing actions and performance are also covered.
Prerequisite(s): GE105, GE106, GE115, BUS240, BUS320, MK330
Credits: 3

MK390 Fundamentals of Digital Marketing
Digital marketing is a development of marketing communications. As such, the course focuses on understanding the effect of technology on marketing strategy and practice. The course provides an understanding of the basic digital marketing tools including: e-mail marketing, newsletter release, application and development of social media tools, Search Engine Optimization (SEO), and digital content management in creating marketing decision making. Finally, the course focuses on using digital marketing tools in formulating effective and efficient company–customer quality relationships.
Prerequisite(s): GE105, GE106, GE115, BUS320, MK330
Credits: 3

MK440 Marketing Management
Enables students to recognize pertinent principles of marketing and apply them within a managerial decision-making environment. The course examines the marketing planning process, strategic marketing, and the effective implementation of marketing plans. The course also integrates the principles of advertising, retailing, sales, and research, in relation to the marketing mix in order to establish an overall framework for effective management at all levels of marketing functions.
Prerequisite(s): GE105, GE106, GE115, BUS305, BUS320, MK330, MK350, MK390
Credits: 3

MK450 International Marketing
Introduces students to marketing operations in foreign markets, as well as to the cultural, political, and economic factors affecting the international marketer. The course focuses on marketing planning and strategies in the world marketplace, and the impact that different cultures and environments have on business marketing activities and on the competitive position of a firm in the global economy. The course also discusses issues involved in creating, producing, pricing, and distributing products and services to an international consumer or an enterprise.
Prerequisite(s): GE105, GE106, GE115, BUS320, MK330, MK350, MK390, MK440
Credits: 3
Electives

MK360 Services Marketing
Introduces students to the distinct thought and application of services marketing. Focuses on issues of service design, service quality, service recovery and the special characteristics of services offerings and clients. Enables students to develop academic understanding, and technical skills in marketing service offerings. 
Prerequisite(s): GE105, GE106, GE115, BUS320, MK330
Credits: 3

MK380 B-2-B Marketing
Provides thorough coverage of the pre-eminent importance of the business-to-business marketing activities for producers and distributors of all classes of goods and services. Explores the nature of organizational markets, the practices of purchasing decision-makers in a wide range of business contexts, and the nature of the relationships developed and nurtured. Highlights the differences between industrial and consumer marketing and offers students knowledge of the tools and concepts of business-to-business marketing. 
Prerequisite(s): GE105, GE106, GE115, BUS320, MK330
Credits: 3

MK410 Advertising and Public Relations
Introduces students to the concepts of public relations as well as to advertising techniques used by businesses to promote their products. Topics to be discussed include the history, philosophy, theories of public relations, and how public relations constitute an important function of business enterprises. The second part of this course analyzes the nature and scope of advertising and its place within marketing strategies as well as its importance in management decision-making. 
Prerequisite(s): GE105, GE106, GE115, BUS320, MK330, MK390
Credits: 3

MK420 Retailing Management
Provides an overview of the retailing industry in a dynamic and changing environment. Examines changing customer demographics and needs, shopping behaviors, and how retailers are reacting to satisfy these changes. Topics covered include retailing decision-making process, pricing, store operation and management, merchandise assortment and pricing, store location and layouts, advertising and sales communication, consumer analysis, retail information systems, and retailing accounting and control. 
Prerequisite(s): GE105, GE106, GE115, IT100, BUS320, MK330
Credits: 3

MK430 Sales Management
Concentrates on the management of sales forces, sales analysis, forecasting techniques, account and territory management, negotiations, integrating personal computers into the sales function, and computer simulation of the decision processes. The course also covers topics such as the integration of promotional strategies into the marketing mix of behavioral and database foundations for promotional strategies, the application of information-based technologies and tools for analysis, as well as the allocation of promotional resources. 
Prerequisite(s): GE105, GE106, GE115, IT100, BUS320, MK330, MK390
Credits: 3

MK455 Nation Branding
Offers students an overview of the management of a brand that represents a country, a state, or a nation. The course enables students to think critically from a variety of business and social perspectives, understand the complex and multidimensional nature of nation branding, and critically analyze the strategic options available to nations in their branding activities. Topics include the image creation and positioning of a national identity, approaches to international positioning, as well as evaluations of the ethical practices of nation sustainability, and small nation accessibility. 
Prerequisite(s): GE105, GE106, GE115, BUS320, MK330
Credits: 3

MK460 Strategic Marketing Applications
Offers students a comprehensive framework for the development and application of realistic competitive marketing strategies, encouraging students to draw from the integrated knowledge they have developed throughout their major. Sharpens students’ critical and strategic thinking competencies through the presentation and analysis of contemporary topics and advanced marketing cases. 
Prerequisite(s): GE105, GE106, GE115, IT100, BUS320, MK330, MK390
Credits: 3
Project Management Courses

Core Requirements

GE113 Values, Ethics and Social Responsibility
Introduces special topics and themes related to issues of ‘Values, Ethics & Social Responsibility’. This interdisciplinary course focuses one of several different disciplines each term, with professors from across the disciplines presenting the material from the perspective of their subject areas. The course involves discussion and critical analysis of various case studies and issues, which will be explored by students from the perspective of their own communities and cultures. The course also explores how differences in world view affect the wider communities.
Prerequisite(s): GE105, GE106; Co-requisite: GE115
Credits: 3

BUS396 Knowledge Management (KM)
Provides a study for understanding the process of managing both personal and organizational knowledge, exploring the fundamentals of knowledge management (KM) using theoretical perspectives and real-life cases of successful organizations. The course curriculum lies in the multidisciplinary nature of KM and interplays different perspectives which view KM either as corporate strategy, a dimension of human resources management, tool for organizational effectiveness or an application for actual use. Course topics include, but are not limited to, knowledge management models, organizational ambidexterity, knowledge sharing and communities of practice (CoP), and absorptive capacity.
Prerequisite(s): GE105, GE106, BUS305
Credits: 3

PM396 Applied Project Management
This is an advanced course in Project Management which drills down into the more applied aspects of project planning and progress reporting. Students will learn how to apply tools and techniques which will help them effectively complete projects. The course combines theory with case studies, and requires hands-on work for the completion of in-class workshops and project assignments. Topics include work Breakdown Structures (WBS), stakeholder analysis and management, project scheduling, duration & cost forecasting, PERT simulations, progress measurement, earned value management (EVM), and project audits.
Prerequisite(s): GE105, GE106, GE115, BUS395
Credits: 3

PM397 Project Management Information Systems (PMIS)
Familiarizes students with the use of popular Project Management Information Systems that support planning, executing and monitoring of projects. The course offers hands-on training on PMIS systems such as MS-Project and Primavera, and moves from the basics of setting-up and tracking projects to more practical tips and techniques for using more advanced functionality. A large part of this course takes place in a computer lab.
Prerequisite(s): GE105, GE106, GE115, BUS395
Credits: 3

PM398 The Human Side of Project Management
Focuses on the human side of Project Management. The course prepares students for managing the dynamics of cross-functional project teams and for balancing effectively the often conflicting interests of project stakeholders. The main purpose of the course is to help students understand, analyze and develop their own effectiveness when it comes to managing project-based work. Topics in this course are: project leadership, emotional intelligence, mentoring & coaching, effective delegation, team motivation, conducting project meetings, managing stakeholders, project communication and project marketing.
Prerequisite(s): GE105, GE106, GE115, BUS395
Credits: 3

PM400 Project Risk Management
Provides students with a thorough understanding of Risk Management as a systematic, iterative approach which includes risk planning, identification, qualitative analysis, quantitative analysis, response planning, and monitoring & control. Topics covered in this course are techniques in identifying risks (brainstorming, reviewing historical data, affinity diagrams, and expert interviews), quantitative and qualitative risk analysis (Monte Carlo simulations, decision tree analyses, probability/impact matrices, expected value), and the crafting and execution of risk response strategies and techniques.
Prerequisite(s): GE105, GE106, GE115, BUS395
Credits: 3
PM415 Project Negotiations & Conflict Resolution
Explores the characteristics of negotiation situations, interdependencies, value creation from potential clients, minor strategies for conflict management all within the context of Project Management. It addresses how negotiations occur to resolve a conflict of interest between two or more parties throughout a project’s lifecycle. Students learn the advantages and disadvantages of negotiation strategies and the appropriate utility of each strategy, given the type of conflict and situation in which the dispute occurs. Exercises and case analyses are used to illustrate important concepts. Topics also include consulting competencies, communication skills in consulting, psychology in consulting, research methods, and law & ethics.
Prerequisite(s): GE105, GE106, GE115, BUS395
Credits: 3

PM440 PMI’s Project Management Body of Knowledge
Based on PMI’s/IPMA’s Standard for Project Management as well as on Project Management Competence Baseline Model. It presents competencies such as Basics Project Management, Methods and Techniques, Organizational Competence, Social Competence, General Management, Personal Attitudes, and General Impression (logic, transparency, and balanced judgment), knowledge areas, process groups and processes of project management as described in the Project Management Book of Knowledge (PMBOK) in a structured way that will help students master the PMI/IPMA terminology and concepts. The course also covers topics of integration, project variables such as scope, time, cost and quality, Human Resource Communications, Communications Management, Risk Management, Procurement Management, and Professional Responsibility. Students who successfully complete this course will be well equipped to succeed in the professional certifications exam offered by the International Project Management Association (IPMA–Level D Certification) and Project Management Institute (PMI–CAPM Certification).
Prerequisites: Successful completion of the PM Courses (PM396, PM397, PM400, PM415)
Credits: 3
**Information Technology Course Descriptions**

Note: Catalog courses that may be used to fulfill general education requirements are designated as (GE)

**IT150 Programming Concepts**
Introduces programming using an object-oriented language. The course emphasizes problem solving and structured programming. Students completing the course should be able to setup and use a visual software development environment; analyze and explain the behavior of simple programs involving the fundamental programming constructs covered by this unit; and modify and expand short programs that use standard conditional and iterative control structures and functions. Students design, implement, test, and debug a program that uses each of the following fundamental programming constructs: basic computation, simple I/O, standard conditional and iterative structures, and the definition of functions and write simple applications.
Prerequisite(s): None
Credits: 3

**IT160 Networking Fundamentals I**
Networking and telecommunications fundamentals including LANs, MANs, WANs, intranets, the Internet, and the WWW will be covered. Data communication and telecommunication concepts, models, standards, and protocols will be studied along with installation, configuration, systems integration and management of infrastructure technologies.
Prerequisite(s): None
Credits: 3

**IT165 Networking Fundamentals II**
Introduces the architecture, structure, functions, components and models of the Internet and of other computer networks. The course uses the OSI and TCP layer models to examine the nature and roles of protocols and services at the application, network, data link and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media and operations are introduced to provide a foundation for the curriculum. Labs use a “model Internet” to allow students to analyze real data without affecting production networks. At the end of the course students build simple LAN topologies, configure network devices such as routers and switches, and implement IP addressing schemes.
Prerequisite(s): IT150, IT160
Credits: 4

**IT175 Routing Protocols & Concepts**
Describes the architecture, components and operation of routers and explains the principles of routing and routing protocols. Students analyze, configure, troubleshoot and verify the primary routing protocols RIPv1, RIPv2, EIGRP and OSPF. By the end of this course students are to recognize and correct common routing issues and problems. Students complete a basic procedural lab, followed by basic configuration, implementation and troubleshooting labs in each chapter.
Prerequisite(s): IT150, IT160, IT165
Credits: 4

**IT200 Object-Oriented Programming**
Provides students with a good understanding of object-orientation programming and Java technologies. Equally important, students get hands-on experience in engineering programs in Java. They learn the basic language constructs as well as the most commonly used libraries, strings, and exceptions. Students work mostly in the computer laboratory using a popular programming environment.
Prerequisite(s): IT150
Credits: 3

**IT205 Advanced Programming in Java**
Enhances students’ Java programming skills and prepares them to successfully obtain professional certifications. The course teaches advanced object-oriented concepts such as inheritance and polymorphism and applies them to the Java programming language so that students can gain a better understanding of interfaces & abstract classes. Other important aspects covered are concurrency (threads), generics, inner classes and exceptions.
Prerequisite(s): IT150, IT200
Credits: 3
IT220 Data Structures & Algorithms
Deals with the fundamentals of organizing and manipulating data efficiently using clean conceptual models. Students study several important conceptual data types and algorithms, which they then implement in a specific programming language, even if the principles are more generally applicable to most modern programming languages.
Prerequisite(s): IT150
Credits: 3

IT235 Installing and Configuring Servers
This course is part of a three-part series that provides the academic background, skills and knowledge necessary to implement servers’ infrastructure in existing enterprise environments. The three courses collectively cover implementing, managing, maintaining and provisioning services and infrastructure, with practice in a Windows Server 2012 environment. This course primarily covers the initial implementation and configuration of core services including Active Directory Domain Services (AD DS), networking services, and Microsoft Hyper-V Server 2012 configuration.
Prerequisite(s): None
Credits: 3

IT240 Computer Architecture
Introduces students to the organization and architecture of computer systems, digital logic, low level instructions execution and system design. In particular, by the end of the course the student should be able to understand digital logic, fundamental building blocks (logic gates, flip-flops, counters, registers, PLA) and logic expressions; explain how a computer fetches from memory and executes an instruction; explain the relationship between the representation of machine level operation at the binary level and their representation by a symbolic assembler; write small programs and fragments of assembly language code to demonstrate an understanding of machine level operations; and use computer simulation packages to investigate assembly language programming.
Prerequisite(s): IT150
Credits: 3

IT245 Administrating Servers
This course is part of a three-part series that provides the academic background, skills and knowledge necessary to implement servers’ infrastructure in existing enterprise environments. The three courses collectively cover implementing, managing, maintaining and provisioning services and infrastructure, with practice in a Windows Server 2012 environment. This course primarily covers the administration tasks necessary to maintain a Server infrastructure such as configuring and troubleshooting name resolution, user and group management with Active Directory Domain Services (AD DS) and Group Policy, implementing Remote Access Solutions such as DirectAccess, VPNs and Web Application Proxy, implementing Network Policies and Network Access Protection, Data Security, deployment and maintenance of server images, as well as update management and monitoring of Server environments.
Prerequisite(s): IT235
Credits: 3

IT255 Configuring Advanced Server Settings
This course is part of a three-part series that provides the academic background, skills and knowledge necessary to implement servers’ infrastructure in existing enterprise environments. The three courses collectively cover implementing, managing, maintaining and provisioning services and infrastructure, with practice in a Windows Server 2012 environment. This course focuses on the knowledge and skills needed to provision advanced services in a Server environment. It includes all the necessary knowledge for students to configure and manage high availability features, file and storage solutions, and network services. It also includes the configuration of Active Directory Domain Services (AD DS) infrastructure and the implementation of backups and disaster recoveries.
Prerequisite(s): IT235, IT245
Credits: 3
**IT260 Database Management Systems**
Introduces the fundamental concepts and principles of designing, implementing and administering databases. Upon completion of the course students are able to create logical data models of medium complexity, design the tables of a database and create the queries and reports required for using the database. Concepts such as normalization, concurrent processing, database administration, data distribution, integrity and security are thoroughly examined. SQL language as a data modeling and query language is also presented and the basic expressions are introduced.
Prerequisite(s): IT150
Credits: 3

**IT265 LAN Switching**
Teaches students the technologies and protocols needed to design and implement a converged switched network. Students learn about the hierarchical network design model and the appropriate selection of devices for each layer. The course explains how to configure a switch for basic functionality and how to implement Virtual LANs, VTP and Inter-VLAN routing in a converged network. The different implementations of Spanning Tree Protocol in a converged network are presented, and students develop the knowledge and skills necessary to implement a WLAN in a small- to medium-network.
Prerequisite(s): IT150, IT160, IT165, IT175
Credits: 4

**IT270 Social and Professional Issues**
This course is a survey of the ethical and professional issues involved in computing. It discusses the ways in which computers and software pose new ethical questions or pose new versions of standard moral problems and dilemmas. It uses case studies that relate to theories of ethics. The course enables students to understand the main issues of social and professional aspects of Information Technology, to develop skills in clarifying and analyzing cases concerning corresponding issues, to acquire a broad knowledge of the social and ethical implications of information technology and become aware of how computer ethics support decision making in cases of IT-related conflicts.
Prerequisite(s): GE105, GE106
Credits: 3

**IT275 Accessing the WAN**
Discusses the WAN technologies and network services required by converged applications in enterprise networks. The course introduces integrated network services and the selection of appropriate devices and technologies to meet network requirements. Students learn how to implement and configure common data link protocols and how to apply WAN security concepts, principles of traffic, access control, and addressing services. Finally, students learn how to detect, troubleshoot and correct common enterprise network implementation issues.
Prerequisite(s): IT150, IT160, IT165, IT175, IT265
Credits: 4

**IT280 Systems Analysis and Design**
Covers the systems development life cycle. The course examines the requirements and tools for collecting and structuring data, process modeling and data modeling, interface design and data management. Students acquire skills in using tools and techniques such as interviewing, producing use cases, prototyping and generating UML diagrams. The course provides hands-on experience in designing a system following the 3-tier architecture (presentation, middleware, data storage).
Prerequisite(s): IT150, IT200
Credits: 3

**IT285 Network Management and Diagnostic Tools**
Provides students with the knowledge to manage a network using the existing tools, methods and platforms. The students will also become acquainted with future trends in network management. The second part of the course familiarizes students with the current issues in security and provides a practical, up-to-date and comprehensive survey of network-based and Internet-based security applications and standards.
Prerequisite(s): IT150, IT160, IT165
Credits: 3
**IT290 Unified Communications**
Introduces voice and data networks and examines the challenges faced by the various related technologies. The course presents Cisco solutions and implementation considerations to address those challenges. In this course, students will learn about the architecture, components, functionality and features of the Cisco Unified Call Manager Express (CUME). They will also learn Voice over IP (VoIP) and Quality of Service (QoS) technologies and apply them to the Cisco CME environment. The course focuses on Call Manager Express, connecting to a PSTN network, connecting from one router across a WAN to another router running CME, and connecting from one CME enabled router to another CME-enabled router.

Prerequisite(s): IT150, IT160, IT165, IT175, IT265, IT275

Credits: 3

**IT295 Implement Secure Networks**
Equips students with the knowledge and skills needed to prepare for entry-level security specialist careers. This course is a hands-on, career-oriented e-learning solution that emphasizes practical experience. The course is a blended curriculum with both online and classroom learning that leads to the CCNA Security Industrial Certification. It aims to develop an in-depth understanding of network security principles as well as of the tools and configurations available. Tools covered: Protocol sniffers/analyzers, TCP/IP and common desktop utilities, Cisco IOS Software, Cisco VPN Client, and Web-based resources.

Prerequisite(s): IT150, IT160, IT165, IT175, IT265, IT275

Credits: 3

**IT300 Networks and Telecommunications**
Covers all aspects of computer networks, from the physical transmission of signals, through the protocols required for the safe transmission of data, to the end-to-end services built on the communications backbone. Wired and wireless networks are covered, and special emphasis is placed on the transportation of real-time audio and video media. There is also a strong focus on support and services for wired and wireless communication systems.

Prerequisite(s): IT150

Credits: 3

**IT312/BUS320 Principles of Marketing**
Examines marketing as an integral part of business management within the wider scope of the firm’s social responsibility and protection of the environment. The course analyzes the function of marketing in an integrated business management context and explores topics such as modern marketing practices, the description of the marketing process, environmental factors, consumer behavior, and the marketing mix.

Prerequisite(s): GE105; Co-requisite(s): GE106

Credits: 3

**IT320 Web Technology**
Introduces common web architectures such as client-server architecture and web services. Students learn how to use server- and client-side technologies to design and develop an online presence for an organization, implementing different navigation and web content strategies. Students develop dynamic websites using a combination of high-level programming languages as well as mark-up and scripting languages. Emphasis is given to evaluating websites in terms of organizational structure and design elements.

Prerequisite(s): IT150

Credits: 3

**IT330 Compilers**
Introduces students to compilers and language translation. Focus is given to aspects of lexical, syntactic and semantic analysis including language theory and implementation. Topics covered in the course include finite state machines, regular expressions, and top-down and bottom-up parsing techniques, code generation and optimization, subroutine calls, symbol table management, LL and LR parser generators. On successful completion of the course, students will be able to identify the various phases of the compiling process, including algorithms and data structures for their implementation in recursive high-level imperative programming languages.

Prerequisite(s): IT150, IT220

Credits: 3
**IT340 Management Information Systems**  
Information systems are viewed from the needs of management. Areas covered include organizational foundations of systems and their emerging strategic role; Introduction to real-world systems, with a focus on their relationship to organizations and management; Technical foundations of information systems; Data processing, collection, storage, updating, and retrieval. Redesigning organizations using information systems, including reengineering of critical business processes. Capturing and distributing organizational knowledge and enhancing management decision-making. Emphasis is placed on using information technology to redesign an organization’s products, services, procedures, jobs and management structures.  
Prerequisite(s): GE105, GE106, IT100  
Credits: 3

**IT350 Project Management**  
Introduces students to the Project Management process and specific aspects of project-management methodologies such as PMI and Prince2. The course focuses on the field of software engineering as a way of enabling students to apply project management concepts to real life examples and experiences. The student will also receive hands-on knowledge of tools used to practice Project Management effectively.  
Prerequisite(s): GE105, GE106, GE115  
Credits: 3

**IT355 Project Management Tools & Best Practices**  
Combines a review of the tools and techniques of project planning and control with hands-on individual work using Project Management software. The course will help students to plan a project (PDM networks, Gantt charts), allocate tasks and resources, optimize schedules, monitor projects, track controls and generate reports. Students work on their own PCs to become familiar with menus, views and reports with sample project data. Upon completion of this course they should be able to build and track project schedules with precision.  
Prerequisite(s): IT150, IT200, IT280, IT350  
Credits: 3

**IT360 Human Computer Interaction**  
Introduces Human-Computer Interaction, the philosophy of designing user interfaces, available design techniques and methodologies, various interaction styles, available design guidelines and user interface management systems. Usability and accessibility of user interfaces is then examined and several usability evaluation methods are analyzed.  
Prerequisite(s): IT100, IT150, IT320  
Credits: 3

**IT370 Operating Systems**  
Introduces students to the fundamentals of operating systems, CPU scheduling, file systems, memory management, device management, multiprocessing and time sharing. The course provides a solid theoretical foundation for understanding operating systems and includes current topics in the rapidly changing fields of operating systems and networking, including open-source operating systems. Finally, the course uses simulators and operating system emulators to demonstrate operating system operations and full programming projects. Case studies are drawn from both Linux and Windows.  
Prerequisite(s): IT150, IT240  
Credits: 3

**IT380 Computer Graphics**  
Provides students with the fundamentals of programming for computer graphics and analyzes the hardware and software principles of interactive raster graphics. Topics include interactive graphics, animation, color, 2-D and 3-D modelling and transformations, viewing transformations, projections, rendering techniques, graphical software packages and graphics systems. Students will use a standard computer graphics API to reinforce concepts and study fundamental computer graphics algorithms.  
Prerequisite(s): IT150, MATH150, MATH300  
Credits: 3

**IT385 Game Design Principles**  
Aims to provide an introduction to the basic methods of game design. It includes defining and analyzing games and their mechanics, and understanding how mechanics affect gameplay and player experiences. Practical assignments include creating both paper and digital prototypes, using user testing to find points of failure and iterative design processes to revise and improve overall gameplay.  
Prerequisite(s): IT150  
Credits: 3
IT400 Emerging Technologies and Themes
Addresses current and future trends in Information Technology. The course presents current market and research directions as influenced by consumers, industries and universities. Students learn the core concepts of information technology and its rapidly expanding role in solving problems and influencing decision making. This course discusses how emerging technologies evolve, how they can be identified and how they are affected by international, political, social, economic and cultural factors. Topics include the accuracy of past technology forecasts and means of improving such forecasts, international perspectives on emerging technologies, future customer trends and forecasting methodologies such as monitoring, expert opinion, trend analysis and scenario construction.
Prerequisite(s): IT150, IT200, IT280
Credits: 3

IT410 Distributed Application Development
Investigates the design and analysis of distributed systems from wide-area communication networks through local-area clusters of workstations, to shared-memory multiprocessors. Focus is on object-oriented client/server applications. Topics include building and consuming a web service, configuring and customizing a web service, calling web methods asynchronously, building a remoting client and server, creating and serializing remotable types, performing remoting operations asynchronously, and managing the lifetime of remote objects.
Prerequisite(s): IT150, IT200, IT320, IT240, IT370
Credits: 3

IT412/MU412 Music Production for Different Media (Radio, TV, Internet, Video Games)
Examines aesthetic, technical, and conceptual issues of works that combine music and video, focusing on the critical interactions between visual elements and music, and their processes of perception. It explores several current technological research and innovative approaches and techniques to works for music and video. This course will also provide historical and critical overview of the artists and scientists whose technical innovations have made a significant impact on the development of audio-visual works.
Prerequisites: None
Credits: 3

IT415 Game Development Platforms
Aims to provide an introduction to the main game platforms available in the market, and focus on the use and exploitation of the Unity game platform. The course will be based on hands-on sessions with the Unity platform, where special focus will be given on setting up a 2D project in Unity, creating Prefabs, working with movement and action buttons, working with physics collisions, using a sprite sheet, and integrating the Dolby Audio API.
Prerequisite(s): IT150, IT385
Credits: 3

IT420 Information Security & Assurance
Introduces a wide range of topics in the field of information security and assurance including: information threats/vulnerabilities and attacks, legal and ethical issues related to risk assessment, security planning, communications systems, information security technologies, cryptography, physical security, security implementation and maintenance and security personnel.
Prerequisite(s): IT150, IT160, IT200, IT320
Credits: 3

IT430 Wireless LANs Fundamentals
Teaches students to configure, implement and support wireless LANs in SMB and Enterprise networks. Upon completion of the course, students are able to install a basic WLAN, install wireless clients, install basic wireless security, operate WLAN Controllers and maintain WLANs.
Prerequisite(s): IT150, IT160, IT165, IT175, IT265, IT275
Credits: 3

IT440 Artificial Intelligence
Introduces basic concepts and methods of artificial intelligence from a computer science perspective. Emphasis will be placed on the selection of data representations and algorithms useful in the design and implementation of intelligent systems. The course will contain an overview of AI languages like Prolog and Lisp, and some discussion of important applications of artificial intelligence methodology.
Prerequisite(s): IT150, IT160, IT165, IT175, IT265, IT275
Credits: 3
IT450 Software Engineering
Effective software engineers need to understand the activities performed during each stage of the development cycle including analysis of requirements, design, implementation, testing, documentation and transition. Hands-on experience is gained throughout the duration of the course on selected aspects of the software engineering lifecycle. Lectures will take place mostly in a computer laboratory.
Prerequisite(s): IT150, IT200, IT280
Credits: 3

IT470 Emerging Computer Architectures
Provides a comprehensive introduction into the emerging field of computer architectures, microprocessors, embedded systems and hardware description languages. It provides a solid theoretical foundation for understanding the organization, structure and the major hardware components of computers, and analyzes the mechanics of information transfer and control within digital computer systems. In addition, the course presents the technical aspects of building operating system (OS) images for embedded applications and a hardware description language (VHDL) used for the design, analysis, multi-level simulation, and synthesis of digital integrated circuits and Field Programmable Gate Array (FPGA).
Prerequisite(s): IT150, IT240, IT370
Credits: 3

IT475 Web Application Development
Introduces web application development including configuration of web and application servers and development of client and server side scripts. Web application security, web authentication, session state management and web services are also presented and discussed. Contemporary technologies such as XML, XAML, Cascading Style Sheets, ASP.NET 3.5, AJAX and Silverlight are presented and used to create dynamic web applications.
Prerequisite(s): IT150, IT200, IT320
Credits: 3

IT480 Developing the UI
Introduces advanced programming concepts and technologies for developing graphical user interfaces. The course presents techniques for developing Windows Forms applications, custom user controls, 2-D or 3-D graphics and binding user interface controls to data sources. The use of graphics and multimedia in user interface development is also discussed. Contemporary development environments and frameworks such as Windows Presentation Foundation and Silverlight are used in the context of the course to develop rich user interfaces.
Prerequisite(s): IT150, IT200, IT320, IT360
Credits: 3

IT499 Capstone Project
Culminating activity for the undergraduate major. Includes preparation, presentation, discussion, and evaluation of a practical project developed and written by each student.
Prerequisite(s): Completion of all other required IT courses
Credits: 3
Mathematics Courses

Note: Catalog courses that may be used to fulfill general education requirements are designated as (GE)

MATH150 (GE) College Calculus
Introduces functions and graphs, continuity and exponential functions. Standard topics to be covered include concepts and rules of the differentiation of one variable functions, the meaning and application of derivatives in decision making management problems, integrals and the limits of one variable functions, as well as rules, interpretation, logarithm functions, definite integral, functions of several variables and application of partial derivatives. Students practice with various mathematical methods and learn how to model and analyze real world examples using mathematical tools and apply deductive reasoning as well.
Prerequisite(s): MATH90 or its equivalent
Credits: 3

MATH200 (GE) Probability and Statistics
Introduces discrete and continuous probability spaces, statistical independence, distributions, discrete and continuous random variables, expectations, moment generating functions, limiting distributions, estimation of parameters, confidence intervals, hypothesis testing with applications, linear regression and correlation and multiple linear regressions. Students learn to define probability as a measure of uncertainty and as a set function, apply the algebra of sets and use various counting techniques to determine elementary probabilities. The class includes calculation of probabilities, means, variances, and moment-generating functions, and investigates approximation theorems. Students also study basic statistical inference theory.
Prerequisite(s): MATH150
Credits: 3

MATH250 (GE) Calculus II
Develops different mathematical techniques and investigates various examples and applications, emphasizing in techniques and applications of derivatives and integration, multiple integrals, limits, continuity, series and polar coordinates.
Prerequisite(s): MATH150
Credits: 3

MATH300 (GE) Discrete Mathematics
Covers the development of mathematical tools necessary for algorithmic applications in computer science. The course includes set theory and logic, various algebraic structures, graph theory, Boolean algebra, and computability theory. Students understand mathematical reasoning and logic, work with discrete structures to represent discrete objects and relationships between them, specify algorithms for certain classes of problems and appreciate the many application areas of discrete mathematics, from computer science and networking to chemistry, botany, zoology, linguistics, geography, business, and the Internet.
Prerequisite(s): IT150, MATH150
Credits: 3

MATH350 (GE) Differential equations with linear algebra
Develops different fundamental methods of solving first and higher order equations and analyzes essentials of matrix algebra, linear and nonlinear systems, power series solutions and Laplace transforms.
Prerequisite(s): MATH150
Credits: 3

MATH400 Numerical Algorithms
Introduces modern approximation techniques; explains how, why, and when they can be expected to work; and provides a firm basis for future study of numerical analysis and scientific computing. Emphasis is given to global and local optimization methods.
Prerequisite(s): IT150, MATH150, MATH300
Credits: 3

MATH450 Statistics for Engineers and Scientists
Introduces the design of controlled experiments and the collection and analysis of scientific data covering descriptive statistics, probability, mean, variance, parameter estimation, random variables and distributions, hypothesis testing, regression and correlation, analysis of variance, and multifactor experimental designs. Appropriate software package is used.
Prerequisite(s): MATH150, MATH250
Credits: 3
MATH500 Multidimensional Calculus

Covers the following subjects: partial differentiation, composite functions, transformations, chain rules, vector algebra and functions, gradient, divergence, curl, curves and surfaces, multiple integrals, line integrals, surface integrals, divergence, Green's and Stoke's theorem.

Prerequisite(s): MATH400

Credits: 3
English Language & Literature Courses

Note: Catalog courses that may be used to fulfill general education requirements are designated as (GE)

ENG157 (GE) Semiotics and Film, an Introduction
Explores how a society produces meanings and values in a communication system called semiotics, from the Greek term semion, "sign". Semiotics is an interdisciplinary field, and provides a basis for interpreting many aspects of popular culture. Such diverse topics as the study of languages, literature, and other systems of human communication (including music, film, art and advertising) all include a wide range of phenomena which can be brought together by means of a general theory of signs. The course deals with three areas: 1) verbal communication, 2) nonverbal communication (iconic systems, gestures, body language, etc.), and 3) communication through art forms. Students apply semiotic principles to their particular areas of interest and get acquainted with the history of cinema and the different cinematic genres.
Prerequisite(s): GE105, GE106
Credits: 3

ENG200 (GE) Introduction to Linguistics
Explores the field of linguistics, and serves as a general introduction to the nature, history and use of human language, speech and writing, with a focus on English. During the semester, students will investigate the basic theories and methods of the different areas of linguistics, including phonetics, phonology, morphology, syntax, and semantics. Topics include the intricate rule systems that govern language, the similarities and differences among languages, and how spoken language relates to written language.
Prerequisite(s): GE105; Co-requisite: GE106
Credits: 3

ENG201 Language Awareness
Designed to guide participants as they explore how language functions from a linguistic perspective with focus on form, meaning and use, how this knowledge can be transmitted effectively to English language learners, and which resources to use in the search for answers to complex language issues. It is also designed to provide an opportunity for participants to gradually acquire the confidence that they can express themselves concisely on matters related to TESOL both in writing and in discussion with their peers.
Prerequisite(s): GE105, GE106, ENG200
Credits: 3

ENG202 Language in Use: Approaches to Discourse Analysis
This course takes as point of departure a view of discourse as social action. Students will engage in the description and interpretation of spoken and written language in use in various settings: political contexts; the media, including advertising and social media; computer mediated communication; professional discourses-academic, health communication and business discourses. Topics to be explored will include genres and discourses; intertextuality and interdiscursivity; construction of identities; language, power and ideology; analysis of narratives; and contrastive discourse analysis.
Prerequisite(s): GE105, GE106, ENG200, ENG201
Credits: 3

ENG203 Language and Mind
Introduces students to psycholinguistics: the study of the relationship between language and the processes of brain and mind. The course covers key issues in the field such as the biological bases of language, speech perception, the lexicon, sentence processing, speech production and language acquisition. Students also examine the methods used in psycholinguistic research in order to interpret the types of results these methods have uncovered.
Prerequisite(s): GE105, GE106, ENG200
Credits: 3

ENG204 (GE) Language and Gender
Explores the complex relationships between gender and language structure, use, and change, integrating perspectives from sociolinguistics and gender theory. Through readings, lectures, class discussions, and data analysis, students learn about gender-based differences in language use and communication and gender as a social construct that is shaped through language use; explore cross-cultural perspectives on language and gender; and examine the implications of language and gender research in institutional contexts, such as education, law, the media, and business. This course will appeal to students interested in a variety of professional fields, including English language teaching, journalism, psychology, and business.
Prerequisite(s): GE105, GE106, ENG200, ENG202
Credits: 3
ENG205 (GE) Introduction to Translation Studies
Introduces students to the history and function of translation in society. Students learn the multiple ways in which translators work in multilingual and multicultural environments while they become familiar with the main theoretical streams in Translation Studies. Students understand the importance of translation as an area of study and come to appreciate the age-old role translators have played as mediators between societies and cultures. Students also gain hands-on translation practice by translating texts from English into Greek.
Prerequisite(s): GE105, GE106; Co-requisite: ENG200
Credits: 3

ENG206 Feedback in Second/Foreign Language Writing: Contexts and Issues
Expands upon the fundamental principles and theories learned in English Methodology courses (ENG310, ENG311) in order to extend students’ understanding of and ability to combine current feedback practices with revision in English as a second (ESL) and foreign language (EFL) writing. Students are exposed to the nature, form and value of current feedback practices and models as well as strategies for the delivering of feedback, both onsite and online, that assist them in dealing effectively with a diverse student population in a variety of language teaching contexts.
Prerequisite(s): GE105, GE106, ENG200, ENG201
Credits: 3

ENG211 Teaching Greek as a Foreign Language
Focuses on training instructors who wish to teach Modern Greek as a Foreign/Second Language in Greece and abroad. The course provides participants with a practical introduction to the principles and practices of modern communicative language teaching. It focuses on the practical issues which participants may face as instructors, and introduces them to a wide variety of materials and activities. The course helps participants develop lesson planning and classroom management techniques and competencies, and design a modern Greek Language program which can be delivered conventionally (face – to – face), or via eLearning.
Prerequisite(s): None
Credits: 3

ENG215 (GE) Creative Writing
Introduces students to Creative Writing in its most varied application, from writing for the media, advertising and the arts to experiments in the lyric essay, fiction and poetry; the attraction of this course is in its multi-genre and inter-disciplinary application. Students interested in journalism, script-writing, and creative non-fiction, will gain from this introduction as much as those interested in the beginnings of poetry and fiction writing. Readings will take place in the craft of the lyric, non-fiction essay, art reviews, advertisement messages, script writing, story, and poetry. Students learn the basic strategies for writing in multiple, non-academic styles while focusing on the genre of their choice.
Prerequisite(s): GE105, GE106, ENG220 (and by instructor’s consent for non-BAELL students)
Credits: 3

ENG220 (GE) Introduction to Literature
Introduces students to literature by providing a broad overview of the three major genres: the short story, poetry, and drama, with some exposure to critical theory; discusses the elements of fiction, poetry and drama, such as the role of setting, character, plot, theme, style, imagery, symbolism, metaphors, and tone in fiction and poetry, and the differences between ancient Greek and Shakespearean theatre. Students are introduced to representative texts and the historical/cultural contexts that produced them.
Prerequisite(s): GE105; Co-requisite: GE106
Credits: 3

ENG221 Shakespeare and his Time
Explores four major plays by William Shakespeare; "Hamlet", "Macbeth", "Romeo and Juliet" and "A Midsummer’s Night's Dream", as well as several of his sonnets in the context of the English Renaissance. Attention is given to the use of language -- puns, metaphors, and hidden meanings -- in the plays and the poems. Classroom analysis focuses on key elements of Shakespeare's artistry, particularly the choice of setting in "Macbeth" and "Midsummer Night's Dream", the ghost scenes in "Macbeth" and "Hamlet", and the plays-within-the-plays in "Hamlet" and "Midsummer Night’s Dream". The developing role of English theatre in general is explored.
Prerequisite(s): GE105, GE106, ENG220
Credits: 3
**ENG222 The Short Story**
Explores a range of short stories written in English. Students are acquainted with the hallmarks of short fiction and learn to appreciate the variety of styles and forms that have produced the short story genre. Particular attention is paid to what makes a short story its own, unique art form. Works by Poe, Joyce, Hemingway to the more contemporary works of O’Connor, Updike, Carver (among others), will be read and discussed.
Prerequisite(s): GE105, GE106, ENG220
Credits: 3

**ENG223 Introduction to Poetry**
Introduces students to the basic elements of poetry—prosody, meter, rhyme, and poetic language. The course examines selected poems from major British and American poets such as T. S. Eliot, Sylvia Plath, Emily Dickinson, Wallace Stevens, William Carlos Williams, Robert Frost, Ted Hughes et al from both the perspective of craft and content. The course will also introduce the poetry of Greek poets, such as the translated work of Konstantinos Kavafis and Arghiris Chionis. The course’s aim is to enable students to see poetry as a specialized use of language that conveys emotions and meaning through image and meter.
Prerequisite(s): GE105, GE106, ENG220
Credits: 3

**ENG224 Masterpieces of 20th Century Theater**
Discusses some of the most important and interesting plays written during the twentieth century in English or other languages, such as works by O’Neil, Lorca, Brecht, and Ionesco (among others). Students are introduced to key elements and concepts of 20th Century Theater. Each work will be examined in its own right, but comparisons between them will also be made with a view to assessing how different playwrights deal with social, cultural political and philosophical issues of both local and universal relevance.
Prerequisite(s): GE105, GE106, ENG220
Credits: 3

**ENG225 (GE) Women Writers**
Introduces students to a comparative approach to literature, gender theory and literary theory, by examining texts by women writers from different backgrounds, namely the UK, US, and Greece. Issues explored include how texts by women differ from texts by men, recurring themes in women’s writing and the way these have changed through the course of the 20th century, and the ways writing challenges or reinforces existing cultural norms about gender. Writers whose work will be studied is determined by the instructor, these have included, but are not limited to Virginia Woolf, Kate Chopin, Flannery O’Connor, Toni Morrison, Lilika Nakou, Margarita Lymberaki, Zyranna Zateli.
Prerequisite(s): GE105, GE106, ENG220
Credits: 3

**ENG230 (GE) Modern Greek Literature in Translation**
Explores the main aesthetic, political, and cultural questions that inform major works of the 19th and 20th centuries in both Modern Greek poetry and prose. It consists of selections and excerpts from the works of such authors as Kavafis, Kazantzakis, Seferis, Elytis, Tahtsis, Galanaki, etc. placed in their broader European literary landscape. Emphasis will be given on various aesthetic movements and sociopolitical issues such as nationalism, diaspora, immigration, gender, group and individual identity, relations between the center and the periphery, and globalization.
Prerequisite(s): GE105, GE106, ENG205, ENG220
Credits: 3

**ENG300 Language and Society**
Looks at language as a social phenomenon and studies the impact of variables such as cultural norms, regional origin, ethnicity, gender, social class and education on the way language is used. Students examine current topics in cross-cultural communication, bilingualism and code-switching, multilingual societies, and the widespread use of English as a Lingua Franca. The course also introduces students to the areas of language policy and language planning, and addresses the educational implications of sociolinguistic diversity.
Prerequisite(s): GE105, GE106, ENG200, ENG202
Credits: 3
ENG301 Language and Interaction
Explores the pragmatic aspects of communication i.e. how the interaction between language and context influences meaning; pragmatics deals with the question of how meaning is shaped by extra textual factors such as the cultural setting, the situational context and the role of participants. Particular emphasis is given to pragmatic phenomena such as deixis, speech acts, conversational implicature, and politeness.
Prerequisite(s): GE105, GE106, ENG200, ENG201 Credits: 3

ENG303 Methodology and Terminology for Translation
Introduces students to the methodologies and tools necessary to carry out translations and addresses terminology analysis and terminology management. Students distinguish terms and non-terms, become familiar with online tools for translation and evaluate their reliability. They establish methodologies for identifying and managing their projects, while by conducting preliminary terminographical work they create their first monolingual and bilingual glossaries.
Prerequisite(s): GE105, ENG205 Credits: 3

ENG305 Fundamentals for Translation I (English-Greek)
Encourages and guides students in applying the theoretical and methodological skills and techniques acquired for translating various texts from English into Greek, raising awareness of translation as a process and product (target text). Students are introduced to source text analysis and become familiar with content and terminology analysis before engaging in a translation. The course provides insight to the steps of translation encouraging students to ‘pool in’ and utilize all previous theoretical and practical skills acquired. Students are assigned source texts from different genres and discourses to be translated into Greek, ultimately developing critical awareness of how the basic principles of translation theory can be applied in practice.
Prerequisite(s): GE105, ENG205 Credits: 3

ENG306 Special Topics in Linguistics
This course is an advanced study of a selected area in linguistics. The focus of the course will vary depending on faculty’s current research interests and student interest. Students will build on work they have completed in years 1 and 2, and will get the chance to explore in depth an area of linguistics. Topics may include: Advanced Themes in Sociolinguistics, Corpus Linguistics, Forensic Linguistics, Bilingualism, The Language of Media and Social Media, Evolutionary Linguistics.
Prerequisite(s): GE105, GE106, ENG200, ENG201, ENG202, ENG203, ENG300 Credits: 3

ENG307 Developmental and Clinical Linguistics
Addresses a number of key issues in Developmental and Clinical Linguistics, including: how language develops in childhood (first language acquisition); second language acquisition, bilingual language acquisition; language and cognition; how language is processed, stored and produced by the brain; how language may fail to develop and how it may go wrong later in life; how children acquire reading and writing and the characteristics/treatment of learning difficulties; causation, diagnosis and treatment of common communication disorders.
Prerequisite(s): GE105, GE106, ENG200, ENG203 Credits: 3

ENG310 Introduction to Methodology
Introduces students to the principles of communicative language teaching. The course includes the theoretical and practical applications of teaching the four skills of reading, writing, listening, and speaking and also examines the teaching of grammar. Students investigate different approaches to classroom management and lesson planning, as well as developing an awareness of how to choose materials and techniques appropriately for different age groups.
Prerequisite(s): GE105, GE106, ENG200, ENG201 Credits: 3
ENG311 Advanced Methodology
Designed to build on the techniques and principles of modern communicative language teaching covered in the Introduction to Methodology course. This course aims to deepen students’ knowledge by focusing on specific aspects of language teaching and encouraging them to approach classroom materials and teaching in a more critical and creative manner. Particular attention is given to special topics, Second Language Teaching Methods and Approaches, technology in education, learning difficulties, phonetics and phonology, and error correction. In addition, testing and evaluation, and the teaching of grammar and lexis are explored. During this course, students are expected to be able to overcome the limitations of course books by adapting or supplementing materials in order to produce a more communicative lesson, one which reflects their own students’ needs and interests.
Prerequisite(s): GE105, GE106, ENG200, ENG203, ENG310
Credits: 3

ENG320 American Literature, an Overview
Surveys key texts in the American canon beginning with William Bradford, John Winthrop and Anne Bradstreet as well as Native American creation myths. A timeline of developments in nation-building and its literature from the Puritans and Native Americans through to the American Enlightenment will be explored, up through to contemporary American voices that address multicultural, racial and ethnic concerns regarding identity and belonging. Discussion will include the works of Emerson, Hawthorne, Wheatley, Jefferson, Lincoln, Jacobs, Hurston, Far and Alexei, among others.
Prerequisite(s): GE105, GE106, ENG220
Credits: 3

ENG321 The British Novel, Past and Present
Provides intensive study of the novel as a literary form based on close readings of representative texts from the 19th century to the present. Emphasis is given to the analysis of narrative, temporality, memory, voice and the status of the subject. The course analyzes how economic and social influences (modern city, industrialism, transportation etc.) as well as developments in the sciences (Darwin) influenced the 19th century novel (Bronte, Dickens, James, Hardy, G. Eliot). Aesthetic and cultural stakes are explored in radically varied constructions of modernity (Woolf, Joyce, Conrad, Lawrence, Rushdie). Finally, questions are addressed that relate to the colonial legacy and the globalized and "post-national" identities in the post-war novel (Golding et al) and are relevant to readers of the present (Kureishi, Ishiguro et al).
Prerequisite(s): GE105, GE106, ENG220, ENG221
Credits: 3

ENG324 Themes in Comparative Literature: the city
The course will be a topic-specific course offering that will facilitate the study and exploration of current trends and ideas in the field. This will also provide options for invited or visiting professors to develop a course of study around an issue/theme in their area of expertise related to the discipline of comparative literature. Subject interests such as explorations of the city in literature, investigations of the post-colonial, travel writing, and nature writing, are among the possible areas of focus.
Prerequisite(s): GE105, GE106, ENG220, ENG222; Co-requisites: ENG321, ENG420
Credits: 3

ENG325 Translation and Culture
Students focus on the dimension of culture and culture transfer through translation and learn to treat texts as linguistic, cultural and ideological products. Attention is paid to issues of culture-bound items and untranslatability. Students enhance their cultural knowledge by analyzing various texts. Also, addressed is the issue of cultural preferences of both source and target environments.
Prerequisite(s): GE105, ENG205
Credits: 3

ENG326 Fundamentals for Translation II (Greek- English)
Encourages and guides students towards applying the theoretical and methodological skills and techniques acquired for translating various texts from Greek into English raising awareness of translation as a process and product (target text). Students use the tools learned in previous courses to translate various texts from Greek into English including financial, legal, technical and promotional material.
Prerequisite(s): GE105, ENG205
Credits: 3
ENG327 The Ethics of Translation

This course introduces translation as a practice carried out for specific purposes in the framework of a given society. Students are introduced to the aspect of translation as a cultural activity. Students understand the common cultural code, customs and traditions as foundations for translation and communication. The course will also look at the various roles a translator may assume as a mediator between different cultures and ideologies within a given social context.

Prerequisite(s): GE105, ENG205

Credits: 3

ENG410 Practicum

(Capstone course for all BAELL majors - Students have the option of doing two Practicum courses if they wish; i.e. A BAELL degree candidate may choose to complete a TESOL Practicum course, and a Practicum in either Linguistics or Literature which would count for two culminating projects in two areas of specialization)

ENG410a -Practicum I (Literature)

Aims to guide students in their final written projects; the instructor oversees the research methodologies applied to the student's extended essay. "Literary Critical Analysis" will have introduced students to the various theories and theoretical practices which they can choose to apply to this culminating assignment. The areas in which students may focus their essay include theatre, comparative literature, American studies, poetry, and translation.

Prerequisite(s) for Literature strand: GE105, GE106, ENG200, ENG201, ENG202, ENG203, ENG221, ENG222, ENG223, ENG310, ENG311, ENG320, ENG321, ENG420, PSY200;

Co-requisite(s): ENG300, ENG301

Credits: 3

ENG410b -Practicum I (Linguistics)

Aims to help students carry out a research project in an agreed upon area of linguistics and to further pursue their interest on a specific topic. Students draft research proposals, and through interactive lectures, class discussions and presentations, peer- reviews and individual supervision students build on skills necessary for the undertaking and completion of their research projects. Topics covered include: formulation of research questions, methodology, data collection, data analysis and critical reviews of the literature.

Prerequisite(s) for Linguistics strand: GE105, GE106, ENG200, ENG201, ENG202, ENG203, ENG220, ENG300, ENG301, ENG310, ENG311, PSY200;

Co-requisite(s): ENG221, ENG223, ENG321, ENG420

Credits: 3

ENG410c Practicum I (TESOL)

This course is designed to prepare students for actual classroom teaching, building up their experience and confidence through micro-teaching and observations before teaching in an actual language classroom. During this course, students are expected to plan and teach lessons. Students will participate in peer-teaching sessions, as well as teaching in a real language classroom. They are required to do a minimum of 20 hours of observation and teaching in addition to attending classes for peer-teaching, feedback, and instruction.

Prerequisite(s) for TESOL strand: GE105, GE106, ENG200, ENG201, ENG202, ENG203, ENG220, ENG300, ENG301, ENG310, ENG311, PSY200

Co-requisite(s): ENG221, ENG222, ENG223, ENG420

Credits: 3

ENG411 Practicum II: Researching Language Classrooms

Provides an introduction to research design in the field of Teaching English as a Foreign Language (TEFL). Students will acquire the basic principles and skills needed to design and conduct classroom research. The course guides students through the research process: reviewing current literature, examining different methods, formulating research questions, selecting appropriate tools for collecting data, analyzing data and interpreting findings. Research topics include classroom interaction, teaching techniques, attitudes of teachers and learners and any other topics in classroom research relevant to the students' interests.

Prerequisite(s) GE105, GE106, ENG200, ENG201, ENG202, ENG203, ENG300, ENG301, ENG310, ENG311, ENG410c, PSY200

Credits: 3
ENG420 Literary Theory I
This course is an introduction to literary and cultural theory and to some of the main questions that have triggered theoretical discussion around the study of arts and literature since the late 19th century. These include questions about the nature of art and literature, meaning, subjectivity and culture. Major movements of literary theory will be explored including: Formalism, Practical and New Criticism, Reader-Response Theory, Structuralism, Psychoanalysis, Colonial literature, Marxism and Feminism.
Prerequisite(s): GE105, GE106, ENG220, ENG223, ENG320
Co-requisite(s): ENG222, ENG321 Credits: 3

ENG422 American Literature: Culture and History
Surveys key texts in the American canon beginning with the Transcendentalist Movement and Ralph Waldo Emerson compared to the Dark Romanticism of Nathaniel Hawthorne. The birth of early American Poetry is studied via two versatile representatives, namely Walt Whitman and Emily Dickinson. Thereafter, a timeline of developments in American Literature is explored beginning with the Realism of Mark Twain and Henry James through to the voice of disillusionment caused by the war as echoed by Scott Fitzgerald and Ernest Hemingway. Discussion will also include the rise of American Drama with the works of Eugene O’Neill, Tennessee Williams and Arthur Miller culminating in prominent representatives of post-war American prose and poetry.
Prerequisite(s): GE105, GE106, ENG200, ENG220, ENG320, ENG221, ENG321, ENG420 Credits: 3

PSY200 Introduction to Research Methods
Introduces students to the basic concepts and problems encountered in social scientific investigation, including types of data and measurement, sampling, probability, and research design. This is an introductory course in social science research methodology that emphasizes the importance and limitations of theory and methodology in social science research, as well as the purposes of applied research, program evaluation and research ethics.
Prerequisite(s): GE105, GE106 Credits: 3

PSY210 (GE) Educational Psychology
Introduces the field of educational psychology and explores the development of cognitive functions and language, individual and cultural differences, and research on teaching and learning. The course also covers learning theories, developmental theories, issues of motivation, emotion, class management, intelligence and diversity, as well as understanding measurement and assessment, teaching and learning styles and special needs.
Prerequisite(s): GE105, GE106 Credits: 3
Music Courses

Note: Catalog courses that may be used to fulfill general education requirements are designated as (GE)

MU101 Music Theory I (Fundamentals)
Covers the basic elements of notation and meter in Western music. Topics include the staff, accidentals, rhythmic values, time signatures, simple and compound meters, major scales and key signatures, simple and compound intervals, minor scales and key signatures, whole tone scale, octatonic scales, blues scale, triad construction and basic harmonic progressions.
Prerequisite(s): None; For non-music majors interview is required
Credits: 3

MU102 Music Theory II (Harmony I)
Introduces diatonic harmony, diatonic melody and harmony; two-part counterpoint. Students understand chord grammar through study of voice leading, figured bass, and harmonization of melodies. Topics include triads and seventh chords, the diatonic chords in major and minor keys, principles of voice leading, root position part writing, triads in first and second inversion, cadences, phrases and periods.
Prerequisite(s): MU101
Credits: 3

MU107 Ear Training/Solfège I
Teaches sight-singing and dictation of diatonic materials in all clefs and intervals. Exercises in rhythmic reading, conducting, prepared singing, and intonation.
  a) Diatonic Solfège syllables
  b) Melodic music notation employing scales and intervals
  c) Rhythmic music notation including simple and compound meter
  d) Vocal and keyboard performance of music notation
Prerequisite(s): None; Co-requisite for non-majors: MU101
Credits: 1.5

MU108 Ear Training/Solfège II
Continuation of MU107. Introduction of chromaticism and modulation within a tonal context. Triplets and compound rhythms. Melodic, harmonic, and rhythmic dictation.
  a) Diatonic Solfège syllables
  b) Melodic and harmonic music notation employing scales and intervals and chords
  c) Intermediate rhythmic music notation including simple and compound meter
  d) Vocal and keyboard performance of music notation
Prerequisite(s): MU107
Credits: 1.5

MU151 Piano Studio I
Introduces the basics of piano performance. Piano as a secondary instrument is designed for the student whose major performing area is not piano. The course stresses basic piano technique, use of the piano as a functional instrument, and as study of compositions representative of the major stylistic periods. This course is the primary source of preparation for the piano proficiency exam required of all music majors. Emphasis on music reading, piano technique, basic keyboard harmonization. This course teaches all major scales, applied theory, short pieces for prepared reading, easier short pieces for sight reading, and ensemble pieces.
Prerequisite(s): None; Co-requisite for non-music majors: MU101
Credits: 1

MU152 Piano Studio II
Focuses on a continuation of technique building at the piano developed in MU 151. Focus is on developing aural and visual skills that enable students to perform elementary-level piano music. Introduction to sight-reading, music theory. Topics will include an introduction to the keyboard, hand position, and music theory. Solo literature appropriate to the level will be studied.
Prerequisite(s): MU151
Credits: 1
MU153 Piano Studio III
Focuses on functional piano, the playing of simple accompaniments and intermediate-level piano music. Introduction to chording and playing by ear. Intermediate-level sight-reading and basic piano ensemble experience, and basic keyboard pattern and transposition. Sight reading skills will be extended beyond the five-finger hand position. Students will further develop piano skills and technique. Solo literature appropriate to the level will be studied.
Prerequisite(s): MU152
Credits: 1

MU154 Piano Studio IV
Continues the building of techniques learned at the piano, and developed in MU153. The student will study selected works of contrasting styles from the solo literature. Sight reading and keyboard skills will be further developed. Introduction to keyboard harmony. Topics include major and minor scales, intervals, diatonic triads and seventh chords.
Prerequisite(s): MU153
Credits: 1

MU155 Piano Studio V
Continues the building of techniques at the piano developed in MU154. Topics include simple chord progressions, major and minor plagal and authentic cadences, and melodic harmonization.
Prerequisite(s): MU154
Credits: 1

MU156 Piano Studio VI
Continues the building of techniques at the piano developed in MU155. Topics include review of concepts learned in previous classes: diatonic chord progressions in all major and parallel minor keys, harmonization of the major and melodic minor scales, resolution of the dominant seventh chord, and harmonization of a melody using all diatonic triads and the dominant seventh chords.
Prerequisite(s): MU155
Credits: 1

MU157 Violin for Beginners
Designed for the student who has not a musical background and would like to learn the fundamentals of violin playing or the student whose major performing area is the piano. The course stresses basic string techniques and provides an introduction to violin performance. This course is offered to substitute for MU 151 Piano Studio I-II.
Prerequisite(s): None; Co-requisite for non-music majors: MU101
Credits: 3

MU161 Voice for Beginners
Designed for beginning voice students without previous knowledge, and those who would like to work on the basic skills of singing, including vocal technique (in speech and singing) and solo vocal performance. Aspects of breathing, support, diction and a variety of vocal literature will be addressed.
Co-requisite for non-music majors: MU101
Credits: 3

MU171 Guitar for Beginners
Designed for the student who would like to acquire the fundamental skills for playing the guitar. The course stresses basic guitar playing techniques and provides an introduction to guitar performance.
Co-requisite for non-music majors: MU101
Credits: 3

MU180 Jazz Improvisation
Addresses jazz improvisation, the art of manipulating the elements of jazz music in real-time, through guided performance practices. Students will develop improvisational skills, through piano performance. (This course serves to substitute for MU154 Piano Studio IV, MU155 Piano Studio V and MU156 Piano Studio VI, for students concentrating in modern music).
Prerequisite(s): MU153
Credits: 3
(1 per three semesters)
MU201 Music Theory III (Harmony 2)
Continues to teach diatonic harmony and introduces chromatic harmony; two-voice tonal counterpoint and analysis of small forms. More advanced study of tonal harmony and voice leading, including the topics of secondary function, modulations to other keys, and the analysis of binary and ternary forms; tonal counterpoint; formal and compositional idioms of the late Baroque; keyboard harmony, figured bass, and introduction to score reading.
Prerequisite(s): MU102
Credits: 3

MU202 Music Theory IV (Form and Analysis)
Introduces the literature and analysis of music through detailed study of representative compositions. Continued study of tonal and chromatic harmony and voice leading. Composition of small forms. Introduction to instrumentation and scoring. Formal and compositional idioms of the Classical period.
Prerequisite(s): MU101, MU102, MU201
Credits: 3

MU203 Music Theory V (Counterpoint)
Teaches the techniques of counterpoint with an emphasis on a particular style, such as that of the sixteenth or eighteenth century.
Prerequisite(s): MU201
Credits: 3

MU204 Music Theory VI (Advanced Harmony)
Examines chromatic and enharmonic harmonic practises thoroughly. The course is structured for students with a prior understanding of harmony and who are interested in expanding their knowledge, and examining music form the late romantic and early 20th century music. Continuation of MU201.
Prerequisite(s): MU101, MU102, MU201
Credits: 3

MU205 Jazz Music Theory
The study of basic concepts of jazz melody, harmony, rhythm and form. Includes the study of jazz notation, chord progressions, chord voicing, chord relationships, voice-leading, jazz harmonization, chord-scale relationships, improvisational devices, and song forms. (This course serves to substitute for MU202 Music Theory IV, for students concentrating in modern music)
Prerequisite(s): MU201
Credits: 3

MU207 Ear Training/Solfège III
Builds on material learned in MU 108. More challenging exercises in sight-singing and preparation of increasingly chromatic materials. Melodic, harmonic, two-part, and rhythmic dictation. Two-part rhythmic exercises and conducting. This course addresses the aural recognition and cognition of chromatic and modulatory tonal melodies in bass, treble, and alto clefs. Also covers division and subdivision of beats in simple and compound meter. The material includes all triads and seventh chords with primary and secondary functions.
Prerequisite(s): MU107, MU108
Credits: 1.5

MU208 Ear Training/Solfège IV
Builds on material learned in MU207. Greater emphasis on non-diatonic material is given, more difficult exercises in prepared singing, sight-singing, dictation, and rhythm. This course addresses the aural recognition and cognition of chromatic and modulatory tonal melodies in bass, treble, alto and tenor clefs, and complex rhythms. The material includes all triads and seventh chords with primary and secondary functions, mode mixture, the Neapolitan chord, augmented sixth chords and altered chords.
Prerequisite(s): MU107, MU108, MU207
Credits: 1.5

MU221 (GE) Music History I (Survey of Music History)
Surveys music chronologically from the Middle Ages to the present. Topics include chant and secular song in the middle ages, polyphonic music from its beginning through the thirteenth century, Ars nova, Renaissance music of the low countries, the music of reformation, music of the early baroque, Bach, Vivaldi, Handel, Haydn, Mozart, Beethoven, Romanticism, and Opera from the early 20th century. (This course serves to substitute for MU222 Music History II, for students concentrating in modern music).
Prerequisite(s): None; For non-music majors: GE142
Credits: 3
MU222 Music History II (Medieval, Renaissance and Baroque)
Studies music from the sixteenth century to the death of Bach. Covers the elements of music, including melody, textures, harmony, rhythm, tempo, dynamics, timbres, form, style, notation, tonality, and thematic development. It provides an overview of the music from the Medieval and Renaissance Periods, and surveys the major composers, their compositions, genres and structures from the music of the Baroque. It also makes connections to popular, modern, and non-Western music and cultural practices as a way to enhance understanding, perspective, and critical thinking.
Prerequisite(s): GE105; Co-requisites: GE106
Credits: 3

MU303 Instrumentation
Studies ranges, tonal possibilities, technical limitations, and necessary transpositions for all orchestral and band instruments, including writing for combinations of instruments.
Prerequisite(s): MU101
Credits: 3

MU304 Orchestration
Applies practical orchestration methodologies, and addresses a variety of orchestration applications for different settings and environments.
Prerequisite(s): MU303
Credits: 3

MU305 Contemporary Techniques (serves as an elective to all music students)
Studies music from 1910 to the present; new compositional and analytical procedures. In particular, the course encompasses the following materials: A study of impressionistic techniques; pandiatonic and mirror harmony; polyphonic, polyphonic and atonal writing; and numerous creative exercises in the styles of the most significant composers of all nationalities of the 20th Century. The art and literature of the period of the specific composers under consideration will be discussed in conjunction with the stylistic analysis of the music.
Prerequisite(s): MU203
Credits: 3

MU306 Analytical Techniques (serves as an elective to all music students)
Analytical techniques for the study of tonal music of the eighteenth and nineteenth centuries. This course focuses on the tonal language of nineteenth-century European composers, including Schubert, Chopin, Brahms, and Wagner. Students confront analytical problems posed by their increasing uses of chromaticism and extended forms through both traditional (classical) models of tonal harmony and form, as well as alternative approaches specifically tailored to this repertory. Students present model compositions and write analytical papers.
Prerequisite(s): GE105, GE106, GE115, MU101, MU102, MU201, MU202, MU203
Credits: 3

MU311 Music Pedagogy
An investigation of historical, philosophical, aesthetic, and pedagogical principles that provide the background and context for contemporary music education. The course focuses on developing a vision of music education for the future. It is designed to provide students an overview of the cultural and historical context of music education. This foundation will provide the necessary perspective for a practical application of philosophical and aesthetic principles.
Prerequisite(s): GE106
Credits: 3

MU321 Music History III (Classicism and Romanticism)
Studies the music from Scarlatti to Liszt. Discusses evolving changes from classicism to romanticism, and pinpoints key shifts in the musical styles. Attention is paid to defining characteristics of the composers under discussion, as well as to the cultural practices of their period.
Prerequisite(s): GE105; Co-requisites: GE106
Credits: 3

MU322 Music History IV (Romanticism & 20th Century)
Studies the music from Wagner to the present. Provides an overview of nineteenth-century romanticism and twentieth-century classical music, including genres, structures, key composers and their compositions. In addition, it includes references to technical considerations and non-Western music and cultural practices as a way to enhance understanding, perspective, and critical thinking.
Prerequisite(s): GE105; Co-requisites: GE106
Credits: 3
MU323 (GE) Greek Music
Studies the most important fields of Greek Music from Classical Antiquity and Byzantine era to today’s traditional, classical and pop music. Topics include: Ancient Greek music; Music of the Hellenistic period; Music of the Byzantine Empire; Music during the Ottoman Empire; Greek folk music of the mainland, Crete and the islands; Urban songs (Rembetika); Greek Classical Music from the Ionian islands; the Greek National School of Music, contemporary classical music, pop, rock and other current streams. (This course serves to substitute for MU321 Music History III, for students concentrating in modern music).
Prerequisite(s): None; For non-music majors: GE142
Credits: 3

MU324 (GE) American, Jazz, Pop Music
Studies important issues connected with America’s music: the art of improvisation; the role of composition; innovation and tradition; individuality and style; instruments and forms. Examination of the formation of the roots of American music, issues of race. Students will learn how to appreciate Native American, Delta blues, country, New Orleans jazz, New York swing and bebop, Classical American music and pop if they are unfamiliar with it, and to deepen their understanding. (This course serves to substitute for MU322 Music History IV, for students concentrating in modern music).
Prerequisite(s): None; For non-music majors: GE142
Credits: 3

MU325 (GE) World Music and Cultures
Studies the music and musical cultures from around the world. Musical traditions throughout the world are considered through analytical, social, and aesthetic approaches. Introduction to the music and contexts of South America, Africa, India, Japan, and Indonesia. Topics include popular and folk music, music and ritual, communication, and self-expression, with consideration of modal structures, instruments, forms, and performance practices. Discussion of issues such as orientalism (i.e., Western representations of the Orient) and the need to develop cultural identities in once-colonized countries. (This course fulfills the Interdisciplinary and Intercultural category).
Prerequisite(s): None; For non-music majors: GE142
Credits: 3

MU326 (GE) Words and Music: from the Middle Ages to the Present
Examines different approaches to word-music relationships in a broad range of periods and genres. Combining text (whether sung or implied) and music adds another layer to both elements reinforcing meaning and feeling. Students will explore some of these rich interactions in such diverse and chronologically disparate genres as the troubadour song, the Renaissance erotic madrigal, the German Lied, the program symphony, as well as modern combinations of words and music. We will consider how the elements of the text (syntax, rhyme, form, alliterations, etc.) dictate particular musical decisions, but also how the music underlines, attenuates, or even subverts the meaning of the words. Concepts to investigate include irony, musical rhetoric, intertextuality, and, even, “silence.”
Prerequisite(s): None; For non-music majors: GE142
Credits: 3

MU379 Conducting and Rehearsing Techniques (serves as requirement for students in composition and as elective to all students)
Introduces practices of conducting through a detailed study of the problems of baton technique. These skills applied to selected excerpts from the standard literature, including concertos, recitatives, and contemporary music. Fundamentals of score reading and baton technique discussed. Provides an introduction to the art, the craft, and the practice of orchestral conducting. The course is targeted to students in Music Composition, and the experienced musician who is familiar with the basic orchestral repertoire as well as the fundamental procedures of orchestral playing.
Prerequisite(s): MU101
Credits: 3

MU380 Conducting
Introduces techniques for Conducting, such as conducting patterns applied to elements of interpretation; practice in sight singing; further development of score reading and conducting technique; Basic skills—beat patterns, use of each hand, study of musical terminology, transposition, tempi, and dynamics; simple score reading and conducting experience with emphasis on instrumental techniques; and observation and discussion of rehearsal procedure, band and orchestral literature, and performance practice in public schools.
Prerequisite(s): Entrance audition required
Credits: 24
(3 per semester)
MU401 Piano
An individual instruction in the study and interpretation of musical literature. Repertoire includes, etudes, scales, arpeggios, sonatas by Scarlatti, Bach’s Preludes and Fugues, Sonatas by Haydn, Mozart and Beethoven, Piano pieces by Mendelssohn, Schumann, Chopin, Brahms and Liszt, contemporary piano music by Debussy, Bartók, Ligeti, works by American and Greek composers. Student has to prepare two concert recitals.
Prerequisite(s): Entrance audition required
Credits: 24

MU402 Violin
An individual instruction in the study and interpretation of musical literature. Repertoire includes etudes, scales, arpeggios, concertos and sonatas by Tartini, Handel, Bach, Haydn, Mozart, and Beethoven. Romantic compositions by Schumann, Brahms, Franck, Faure. Also includes works by modern composers such as Ysaÿe, Bartók, Debussy, Ravel and studies of the orchestral repertoire.
Prerequisite(s): Entrance audition required
Credits: 24

MU403 Viola
An individual instruction in the study and interpretation of musical literature. Repertoire includes etudes, scales, arpeggios, concertos and sonatas by Telemann, Handel, Bach, Stamitz, Hoffmeister, and Mozart. The viola sonatas by Brahms, Shostakovich and Hindemith, and the viola concertos by Walton and Bartók. Special focus on the study of orchestra excerpts.
Prerequisite(s): Entrance audition required
Credits: 24

MU404 Cello
An individual instruction in the study and interpretation of musical literature. Repertoire studied includes sonatas by Bach, Vivaldi, Beethoven, Brahms, Faure, Grieg, Rachmaninov, Debussy; concertos by Boccherini, Haydn, Schumann, Saint-Saens, Dvořák and Elgar. Special attention will be given to the study of basso continuo and scales, arpeggios, etudes and excerpts of the orchestral repertoire.
Prerequisite(s): Entrance audition required
Credits: 24

MU405 Double Bass
Individual instruction on the study and interpretation of musical literature. Repertoire includes, scales, arpeggios, etudes, sonatas by Vivaldi, Hindemith, Vasks, Gubaidulina; concertos by Dittersdorf, Krebs, Hoffmeister, and Bottesini. Techniques for the tone, bow, pizzicato, thumb positions, vibrato, fingerings. Special focus on the study of orchestra excerpts.
Prerequisite(s): Entrance audition required
Credits: 24

MU406 Voice
Individual instruction on the study and interpretation of musical literature. Topics include the correct posture, basic elements of breathing, the vibrato, articulation, developing a practice and warm up routine. Repertoire includes baroque arias, arias from baroque oratorios and passions, lieder by Mozart Beethoven, Schubert, Schumann, Brahms, Wolf, arias from operas by Mozart, Rossini, Verdi, Puccini, Weber, Wagner, Berlioz, Bizet, Gounod, Tchaikovsky; songs written by composers of the 20th century.
Prerequisite(s): Entrance audition required
Credits: 24

MU407 Counterpoint
Develops contrapuntal skills and techniques in two-, three-, and four-part textures. Analysis and writing of examples of sixteenth-century vocal styles including the motet. Study of eighteenth-century instrumental styles including invertible counterpoint, chorale prelude, and two- and three-part inventions.
Prerequisites: MU203
Credits: 3

MU408 Fugue
Concentrates on the writing of different types of fugues and on short pieces involving different types of imitation. The material is based on Bach’s The Well-Tempered Clavier, Goldberg Variations, Das Musikalische Opfer, and Die Kunst der Fuge.
Prerequisites: MU203, MU407
Credits: 3
MU409 Guitar
Individual instruction on the study and interpretation of musical literature. Repertoire includes etudes, scales, arpeggios, concertos and sonatas by Foscarini, Bartolotti, Corbetta, Sanz, and Weiss. Romantic compositions by Aguado, Albeniz, Arcas, Carulli, Coste, Tarrega, and Barrios. Also includes works by modern composers such as Brower, Granados, Lauro, and Villa-Lobos.
Prerequisite(s): Entrance audition required
Credits: 24
(3 per semester)

MU410 Collaborative Piano
This one-to-one course is offered to piano majors that have completed the sophomore year of their studies, giving them the opportunity of specialization in the Art of Vocal Accompaniment. Articulated in four distinct areas comprising both Art Song and Aria repertoire, the course provides to pianists the diverse stylistic knowledge and practical skills to address vocal repertoire from Baroque to the 21st century. In each semester students will explore one of the following genres: the German Lied, French Mélodie, World Art Song (repertoire not restricted to but focused on Greek and American composers) and the operatic Aria. The course considers issues of diction in the main languages of vocal repertoire and the various performance traditions as well. Student has to prepare two public performances as an accompanist of vocal recitals.
Prerequisite(s): Entrance audition required, MU401.1-401.4
Credits: 12
(3 per semester)

MU411 Music Technology
Teaches the use of personal computers to apply the basics of a Musical Instrument Digital Interface system, its software, and the instruments commonly used with desktop MIDI workstations (synthesizers, digital samplers); MIDI sequencing, digital audio editing, and principles of digital syntheses. The course is intended for those with little prior technical training. An introduction to the computer music studio, techniques of digital recording and editing, analog and FM synthesis, MIDI sequencing, and a comprehensive study of the literature and styles of the classic tape studios. Study of advanced synthesis techniques, digital sampling, video synchronization, and multimedia applications. Compositional projects in electronic music.
Prerequisite(s): MU101; Co-requisites: IT100
Credits: 3

MU412 Music Production for Different Media (Radio, TV, Internet, Video Games)
Examines aesthetic, technical, and conceptual issues of works that combine music and video, focusing on the critical interactions between visual elements and music, and their processes of perception. It explores several current technological research and innovative approaches and techniques to works for music and video. This course will also provide historical and critical overview of the artists and scientists whose technical innovations have made a significant impact on the development of audio-visual works.
Prerequisite(s): MU101
Credits: 3

MU413 Percussion
Study fundamental concepts and techniques of sound production, practice methods, instrument selection, tuning, maintenance, rhythm, sight-reading, aural skills, musical styles and interpretation. Study of seven instrument categories including snare drum, drum set, hand drumming, percussion keyboards, timpani, orchestral accessories, and multiple percussion, in one hour per week private lessons for each semester. Emphasis of solo and chamber music literature, and performance including the senior recital.
Prerequisite(s): Entrance audition required
Credits: 24
(3 per semester)

MU414 Saxophone
An individual instruction in the study and interpretation of musical literature. Saxophone lessons will consist of an overall knowledge of the saxophone in either jazz or classical disciplines. The student, through the preparation of weekly assigned material, will display a command of the instrument and skills necessary to succeed in a variety of musical situations.
Prerequisite(s): Entrance audition required
Credits: 24
(3 per semester)
MU450 Musical Organization – Instrumental
Involves various groups including symphony orchestra, contemporary ensemble, and other conducted organizations. Course content consists of appropriate musical repertoire, determined by ability level of students involved and the service requirements for departmental performance obligations. (This course serves to substitute for MU453 Musical Organization - Choral, for students concentrating in instrumental performance).
Prerequisite(s): MU101
Credits: 6
(1.5 per semester)

MU451 Opera Workshop
Involves acting, musical coaching, movement, stage, and audition techniques will culminate in the performance of opera scenes and possible ensemble participation in a main stage production. Fundamental stage techniques. Basic stage language, movement, presentation skills, and fundamentals of acting for recital and opera. Training in the awareness of the dramatic aspects of music as basis for characterization and includes an introduction to scene work.
Prerequisite(s): MU101
Credits: 3

MU453 Musical Organization - Choral
Involves the study and performances of the great literature from the choral-symphonic tradition. Open to all by audition. Required of all students for whom chorus satisfies the required musical organization (i.e., voice, keyboard) and all conducting majors.
Prerequisite(s): Audition required, MU101, MU107
Credits: 6
(1.5 per semester)

MU456 Art of Accompanying (for Piano Majors only; Serves as Music Organization credit.)
Involves sight reading, transposing, and acquaintance with vocal and instrumental literature. Rehearsal and performance as accompanist for a required public performance of a full undergraduate recital. Analysis and practice in the vocal and instrumental repertoire; discussion of style and performance. Required practical training through two hours per week assigned accompaniment. Serves as Music Organization credit for juniors and seniors only.
Prerequisite(s): MU101
Credits: 2

MU461 Basic Composition I
Involves individual lessons in composition; introduction to principles of composition. Instruction in calligraphy and manuscript preparation. Examination of contemporary music devices. Written work modelled on analyses of representative forms. Topics include: composition of music sentences and periods, composition in several idioms such as pandiatonic, atonal, twelve-tone, serial, pointilistic; analysis of representative compositions written in the 20th century; setting lyrics to music; original compositions for different music ensembles; and, contemporary instrumental techniques.
Prerequisite(s): Entrance audition required
Credits: 2

MU462 Basic Composition II
Builds on MU461, and introduces students to some of the basic problems in musical composition through a series of exercises. Written work modelled on analyses of representative forms. Topics include: composition of music sentences and periods, composition in several idioms such as pandiatonic, atonal, twelve-tone, serial, pointilistic; analysis of representative compositions written in the 20th century; setting lyrics to music; original compositions for different music ensembles; and, contemporary instrumental techniques.
Prerequisite(s): MU461
Credits: 2

MU463 Intermediate Composition I
Builds on M 462, and introduces students to some of the basic problems in musical composition through a series of exercises. Written work modelled on analyses of representative forms. Topics include: composition of music sentences and periods, composition in several idioms such as pandiatonic, atonal, twelve-tone, serial, pointilistic; analysis of representative compositions written in the 20th century; setting lyrics to music; original compositions for different music ensembles; and, contemporary instrumental techniques.
Prerequisite(s): MU462
Credits: 2
MU464 Intermediate Composition II
Builds on MU463, and introduces students to some problems in musical composition through a series of exercises. Written work modelled on analyses of representative forms. Written work modelled on analyses of representative forms. Topics include: composition of music sentences and periods, composition in several idioms such as pandiatonic, atonal, twelve-tone, serial, pointilistic; analysis of representative compositions written in the 20th century; setting lyrics to music; original compositions for different music ensembles; and, contemporary instrumental techniques. 
Prerequisite(s): MU463
Credits: 2

MU465 Intermediate Composition III
Builds on MU464, and introduces students to some problems in musical composition through a series of exercises. Written work modelled on analyses of representative forms. Topics include: composition of music sentences and periods, composition in several idioms such as pandiatonic, atonal, twelve-tone, serial, pointilistic; analysis of representative compositions written in the 20th century; setting lyrics to music; original compositions for different music ensembles; and, contemporary instrumental techniques. 
Prerequisite(s): MU464
Credits: 2

MU466 Senior Composition I
Builds on MU465, and introduces students to some problems in musical composition through a series of exercises. Written work modelled on analyses of representative forms. Topics include: composition of music sentences and periods, composition in several idioms such as pandiatonic, atonal, twelve-tone, serial, pointilistic; analysis of representative compositions written in the 20th century; setting lyrics to music; original compositions for different music ensembles; and, contemporary instrumental techniques. 
Prerequisite(s): MU465
Credits: 2

MU467 Senior Composition II
Builds on MU466, and introduces students to some problems in musical composition through a series of exercises. Written work modelled on analyses of representative forms. Topics include: composition of music sentences and periods, composition in several idioms such as pandiatonic, atonal, twelve-tone, serial, pointilistic; analysis of representative compositions written in the 20th century; setting lyrics to music; original compositions for different music ensembles; and, contemporary instrumental techniques. 
Prerequisite(s): MU466
Credits: 3

MU470 Chamber Music (serves as organization credit)
Rehearsal and performance of chamber music. Specified chamber music experience in classes for trios and quartets for students concentrating in instrumental performance. 
Prerequisite(s): MU101
Credits: 3

MU480 Music Theory Seminar
Introduces students with special interest in music theory to more advanced analytical methods and systems. Topics may include Post Tonal Theory, Schenkerian analysis and History of the Music Theory. Post Tonal Theory refers to atonal and 12 tone music with an emphasis in compositions by Schoenberg, Berg, Webern and Stravinsky. Schenkerian analysis provides a method for better apprehension of the compositional construction of tonal music. History of Music Theory is a survey of theoretical treatises and systems written from the Greek Antiquity until the Twentieth century. 
Prerequisite(s): MU203
Credits: 3

MU495 Music History and Literature Capstone
Pending This course provides the tools for scholarly research for music history and literature students. It will offer an overview of the elements involved in conducting research in various fields of music, including music performance, music history, and music education. Print and electronic formats will be explored to find appropriate music research materials. In addition, this course focuses on the critical elements necessary to successfully accomplish advanced research in all areas of music scholarship. 
Prerequisite(s): Completion of all music program requirements
Credits: 3
MU496 Medium Scale Composition
Composition students are required to present publicly a medium scale composition after completing their sophomore year.
Prerequisites: MU463

MU497 Music Theory Capstone
This course provides the tools for scholarly research for music theory students. It will offer an overview of the elements involved in conducting research in various fields of music, including music performance, music theory, and music education. Print and electronic formats will be explored to find appropriate music research materials. In addition, this course focuses on the critical elements necessary to successfully accomplish advanced research in all areas of music scholarship.
Prerequisite(s): None
Credits: 3

MU500 Senior Recital in Performance and Composition
Recital in the major instrument in preparation with the instructor during the last semester of studies. Presentation of a half-recital of compositions written during residency for different media, with the student participating as performer or conductor of at least one work.
Prerequisite(s): Completion of all music program requirements
Psychology Courses

Note: Catalog courses that may be used to fulfill general education requirements are designated as (GE)

BIOL200 (GE) Human Biology
Introduces the major chemical and biological principles through the study of the human body and emphasizes the interrelationships between the body organ systems. Systems physiology, diseases, nutrition, genetics, and human ecology are the major topics. This is the second course in a two-term sequence of Biology courses for non-majors. The BIOL200 Laboratory is designed to reinforce understanding of the topics covered in lectures.
Prerequisite(s): GE105, GE106, BIOL150
Credits: 4

PSY150 Introduction to Psychology
Provides a broad, general introduction to psychology -- the scientific study of behavior and mental processes. This course includes such topics as memory, learning, the study of the nervous system, psychological disorders and therapy, sexuality, attitudes, conformity, persuasion, and motivation. Students gain an increased awareness of the broad range of phenomena investigated by psychologists and a greater ability to understand and critique psychological research.
Prerequisite(s): GE105; Co-requisites: GE106
Credits: 3

PSY200 Introduction to Research Methods
Introduces students to the basic concepts and problems encountered in social scientific investigation, including types of data and measurement, sampling, probability, and research design. This is an introductory course in social science research methodology that emphasizes the importance and limitations of theory and methodology in social science research, as well as the purposes of applied research, program evaluation and research ethics.
Prerequisite(s): GE105, GE106, PSY150
Credits: 3

PSY210 (GE) Educational Psychology
Introduces the field of educational psychology and explores the development of cognitive functions and language, individual and cultural differences, and research on teaching and learning. The course also covers learning theories, developmental theories, issues of motivation, emotion, class management, intelligence and diversity, as well as understanding measurement and assessment, teaching and learning styles, and special needs.
Prerequisite(s): GE105, GE106
Credits: 3

PSY220 Developmental Psychology I
Studies the basic concepts and mechanisms inherent in the process of human development from conception to adolescence. The course describes the nature and context of human development, as well as the research methods used to study it. Students examine the biological, cognitive, social, emotional, and moral aspects of development through various theoretical models. The major emphasis is on normal growth and development.
Prerequisite(s): GE105, GE106, PSY150; Co-requisites: PSY200
Credits: 3

PSY230 Developmental Psychology II
Covers the study of normal growth and change from adolescence through adulthood to old age, and gives students an appreciation for the complex ways in which human beings grow and change over the life span. The course emphasizes major theories and themes in human development, the developmental tasks and challenges a person must master at different times across the life span, how research is formulated and carried out, and applying knowledge to real world situations.
Prerequisite(s): GE105, GE106, PSY150, PSY200, PSY220
Credits: 3
PSY240 (GE) Social Psychology
Introduces students to the scientific study of the way people think about, feel, and behave in social situations. It involves understanding of how people influence and are influenced by others around them. The topics covered will examine how individuals perceive themselves and others, how individuals interact with others, and how individuals think in social settings. The primary goal of this course is to provide students with an understanding of the perspectives, research methods, and empirical findings of social psychology. An equally important goal will be to develop critical and integrative ways of thinking about theory and research in social psychology.
Prerequisite(s): GE105, GE106, PSY150  
Credits: 3

PSY250 (GE) Introduction to Child-Centered Play Therapy
Provides an introduction to the field of Play Therapy including the theories and principles involved in its practice. By the nature of the subject, learning-by-doing is emphasized. The course involves hands-on-experience directly associated with the theoretical ideas outlined in the course readings, with the overall aim to facilitate self-expression and the development of one’s creative potential in a non-threatening way. At the end of the course, students will have gained an understanding of the use of Play Therapy as a healing modality and how it can be applied when working with various age groups for clinical and non-clinical populations.
Prerequisite(s): GE105, PSY101 or PSY150; PSY220  
Credits: 3

PSY260 (GE) Statistics for the Social Sciences
Provides knowledge of how statistics are used to evaluate theories in the social sciences. Students will become familiar with a variety of descriptive and inferential statistical techniques such as: frequency distributions, descriptive statistics, probability, correlation, and hypothesis testing. During the course, students will learn how to use SPSS (a computer statistical program for Social Sciences) to carry out statistical procedures.
Prerequisite(s): MATH90 or its equivalent  
Credits: 3

PSY270 Forensic Psychology
The aim of the course is to introduce students to the field of Forensic Psychology by dealing with many different domains of the subject. The student will obtain an understanding of inventories, procedures, case conceptualizations and interventions based on Forensic Psychology theory and practice. Students will be able to gain knowledge on a wide range of subjects which will be addressed by discussing theory and then going on into skills’ practice. The course is structured in a manner which will give the students the opportunity to work on their practical and critical skills. The whole course will be focused on how theory is embedded in practice and case performance.
Prerequisite(s): GE105, GE106, PSY150, PSY240  
Credits: 3

PSY280 (GE) Social Psychology Seminar
The social psychology seminar constitutes an interdisciplinary field of study, concerned with how psychological processes help illuminate concepts, principles and theories social scientists use to better understand other areas of interest like politics, culture, sociology or marketing. Various contexts may be addressed, including cultural, social, historical, economic, and political with the primary goal of advancing students’ understanding of how such factors impact the lives of populations. Some of the major lines of advanced social psychology theory and research as well as their applications to human life can be explored in this course. The applications of this course may include group decision-making, personality characteristics of leaders and followers; racism and stereotyping, and their impacts; the influences of emotion and cognition on decisions; the origins of violence and genocide; and relations and interactions within and between groups as in business relations and the workplace in general.
Prerequisite(s): GE105, GE106, PSY150, PSY200; Co-requisites: PSY240  
Credits: 3

PSY300 Physiological Psychology
Emphasizes the molecular aspects of human neuroscience, particularly as they relate to how the brain’s normal and abnormal functioning affect human experience and behavior. The course will particularly focus on those aspects of neuroanatomy, neurochemistry, and physiology, which directly influence an organism’s human experience, motivation, language, thought, and learning.
Prerequisite(s): GE105, GE106, PSY150, PSY200, BIOL150, BIOL200  
Credits: 3
PSY320 Learning and Behavior
Introduces various theoretical approaches to the study of learning, and behavior change. Topics include but are not limited to classical and operant conditioning, and observational learning. The main goal of this course is to provide students with an understanding of learning theories, research methods and empirical findings of this field of psychology. Students will be able to discuss the experimental strategies used by scientists to investigate how animals, including humans, learn as well as apply such theories to human learning when relevant.
Prerequisite(s): GE105, GE106, PSY150, PSY200
Credits: 3

PSY330 Abnormal Psychology
Provides an overview of abnormal psychology and an introduction to the field of clinical psychology. The course focuses on the description of various psychological disorders, how they develop, the course they follow, and their treatment, emphasizing current theory and research. This course uses the diagnostic system developed by the American Psychiatric Association, the DSM-IV, with students being required to learn both the strategies the system uses to categorize patterns of abnormal behavior, and what those characteristic patterns are. Issues to be explored will touch on major controversies in the field.
Prerequisite(s): GE105, GE106, PSY150, PSY200
Credits: 3

PSY345 Fundamentals in Music Therapy
Introduces the science of Music therapy including basic concepts, knowledge, and skills. Addresses the challenges that affect clients who benefit from music therapy, and provides a platform for reflection of one’s own experiences. Case material showcasing work in a range of settings will be linked with the psychological theories that underpin clinical practice. Included are improvisation techniques used in music therapy, encouraging exploratory thinking about the emotional qualities of music, and is suitable for those wishing to broaden their understanding of how music can be utilized in health and education as a therapeutic tool.
Prerequisite(s): GE105, GE/PSY101 or PSY150 Co-requisites: GE142 or MU221
Credits: 3

PSY360 Testing and Assessment
Provides students with the knowledge and skills necessary for understanding psychometric issues as well as the relationship between research and practice. The course focuses on the uses of different tests in a variety of settings. Students gain theoretical and practical basis for selecting and using the wide range of test and measurement data available to applied researchers.
Prerequisite(s): GE105, GE106, PSY150, PSY200
Credits: 3

PSY370 Cognitive Psychology
Focuses on the basic principles associated with human cognition exploring such topics as perception, attention, memory, knowledge, problem solving, reasoning and language comprehension and production. The course guides students in an exploration of what is known about cognitive psychology, how it was discovered, and what is still left to be discovered. Upon completion of the course, students understand related cognitive theories and how the scientific method works within the context of cognitive psychology and are able to appreciate how research and theory in cognitive psychology have been applied to real-world problems.
Prerequisite(s): GE105, GE106, PSY150, PSY200
Credits: 3

PSY380 Theories of Personality
Provides a broad introduction to the key theories of personality, including the perspectives of psychoanalytic/psychodynamic, social/life-span, humanistic, and cognitive/behavioral. The course draws attention to significant contemporary movements, such as positive psychology and cross-cultural psychology, and their application in the study of personality theories. The course is designed to help students understand various historical issues and controversies to date, what research has shown, and what difficulties are encountered in trying to form a comprehensive understanding of human personality.
Prerequisite(s): GE105, GE106, PSY150, PSY200
Credits: 3
**PSY390 Health Psychology**  
Provides students with a broad overview of the theory, research and practice of health psychology and behavioral medicine, with an emphasis on the prevention and modification of health compromising behaviors. The class will also address the psychological management of stress, pain and chronic/terminal illness as well as effective interventions for specific health behaviors and disorders.  
Prerequisite(s): GE105, GE106, PSY150, PSY200  
Credits: 3

**PSY400 Experimental Psychology**  
Introduces students to the philosophy, principles, and methods of scientific research in experimental psychology. The focus of the class is on experimental research methods, although non-experimental and descriptive research techniques are also covered. Among the many topics to be discussed are the goals, assumptions, and requirements of science; the steps of the scientific method; ethics, experimental control, and research design; sampling and generalization; and hypothesis testing and statistical significance.  
Prerequisite(s): GE105, GE106, PSY150, PSY200, PSY260  
Credits: 3

**PSY410 History and Systems of Psychology**  
Helps students understand the historical foundations of psychology, their influence on contemporary psychological thought, and the growth of psychology as a science. The course covers major concepts of various schools of psychological thought and contemporary theoretical systems as they have evolved historically, including ideas expressed by philosophers, physiologists, and psychologists. It also considers the impact of human and cultural diversity on the science of psychology.  
Prerequisite(s): GE105, GE106, PSY150, PSY200  
Credits: 3

**PSY420 Interviewing and Counseling**  
Trains students in interviewing and counseling skills that are fundamental for a career in the Human Services professions. Students are familiarized with the theoretical premises of different counseling and psychology theories and instructed on how the theories are transformed into intervention strategies. Ethical and professional behavior within the context of interviewing and counseling practice is also discussed. Effective interviewing and counseling skills such as mastery of basic attending, listening, focusing, influencing and structuring skills for diverse populations are taught.  
Prerequisite(s): GE105, GE106, PSY150, PSY200, PSY330  
Credits: 3

**PSY430 Theory and Principles of Psychotherapy**  
Explores contemporary approaches to assessment, treatment planning, and intervention based in biopsychosocial systems and empirically supported interventions. The major areas covered include the theoretical foundations of major therapeutic approaches such as cognitive, behavioral, psychodynamic and existential- humanistic. The course emphasizes multicultural and ecological contexts in planning and conducting multi-faceted interventions for change.  
Prerequisite(s): GE105, GE106, PSY150, PSY200, PSY330  
Credits: 3

**PSY440 Clinical Psychology**  
This course is a follow-up on the course of abnormal psychology. It is designed to consider in more depth what constitutes abnormal behavior. Going beyond the description of various psychological disorders, the course explores assessment and ethical issues in clinical practice and research through case studies. This course will make use of the diagnostic system developed by the American Psychiatric Association (DSM-IV-TR). The course focuses mainly on theoretical and empirical topics in clinical psychology, and is not designed to teach students ‘how’ to perform clinical skills.  
Prerequisite(s): GE105, GE106, PSY150, PSY200, PSY330  
Credits: 3

**PSY450 Child Psychopathology**  
Focuses on child and adolescent psychopathology with lecture presentations and discussions concentrating on disease etiology, epidemiology, phenomenology, nosology, and diagnosis. Students are engaged in a critical review of common child and adolescent psychopathology and challenge social and cultural assumptions of what constitutes “normal” vs. “pathological” behavior, cognition, and emotion. Topics to be reviewed include Attention Deficit Hyperactivity Disorder, Learning Disorders and Eating Disorders.  
Prerequisite(s): GE105, GE106, PSY150, PSY200, PSY220, PSY330  
Credits: 3
PSY460 Clinical Neuropsychology
Provides a comprehensive overview of the field of clinical neuropsychology. The course includes discussion of such topics as functional neuroanatomy, principles of neuroscience, brain development, neurological disorders and etiologies, neurodiagnostic techniques, normal and abnormal brain functioning, and neuropsychological and behavioral manifestations of neurological disorders. Special topics include clinical neuropsychological assessment, diagnosis, treatment and rehabilitation of individuals with neurological, medical, or neurodevelopmental disorders across the lifespan.
Prerequisite(s): GE105, GE106, PSY150, PSY200, PSY300, PSY330 Credits: 3

PSY470 Behavior Modification
Surveys the history and various theoretical approaches to the study of learning and behavior modification, and the basic and applied research from which current behavior modification techniques have been derived. The course addresses theoretical and ethical issues raised by application of these approaches. Topics include positive control, aversive control, stimulus control, symbolic control of behavior, classical and operant conditioning, modeling, cognitive principles and behavioral and cognitive interventions. Students learn applied behavior modification techniques including: observing and recording behavior and formulating and writing behavioral objectives. This course also includes an examination of motivation, attitude formation and cognitive intervention approaches.
Prerequisite(s): GE105, GE106, PSY150, PSY200, PSY320 Credits: 3

PSY480 Psychology of Addictions
Helps students develop a critical understanding of contemporary psychological approaches to the understanding of addiction. Students consider the relative contributions of psychological theories from the fields of biological, behavioral, social, and cognitive psychology to understanding, treatment, and prevention of both drug-related addictions and selected addictive behaviors, such as gambling, overeating, alcoholism etc.
Prerequisite(s): GE105, GE106, PSY150, PSY200, PSY330 Credits: 3

PSY490 Internship Placement
Provides students with opportunities for learning through practical experience in a professional setting. The intern will be given the chance to relate principles presented in textbooks and classroom settings to real-life situations, under responsible supervision.
Prerequisite(s): All required courses Credits: 4

PSY499 Capstone Project
Aims to bring together the organizational, statistical and expressive skills fostered during undergraduate work. This course is the culminating activity in the psychology major. Students are expected to conduct a small-scale, thorough, empirically-based research project (e.g., a survey, a field observation, or an experiment) in any area of psychology. This research, with a specific purpose and hypothesis of the student’s choice, must include review of the relevant professional literature, systematic data collection, analysis and interpretation, and professional write-up of the overall work.
Prerequisite(s): All required courses Credits: 3
Engineering Courses

Note: Catalog courses that may be used to fulfill general education requirements are designated as (GE)

**CH100 (GE) General Chemistry with Lab**
A brief review of fundamentals including stoichiometry, atomic structure, and chemical bonding. Other topics include thermo chemistry, gas laws, properties of solution, and inorganic coordination compounds. Intended primarily for science/engineering majors.
Prerequisite(s): None
Credits: 4

**CH101 Thermodynamics**
Covers the fundamental principles of thermodynamics and physical chemistry as applied to engineering systems. This course provides a foundation in fundamental thermodynamic phenomena, including the first, second and third law of thermodynamics (entropy and free energy, including the molecular basis for these thermodynamic functions), thermodynamic properties, equations of state in real and ideal gases, availability and combustion. The basic laws are used to understand and analyze the performance and efficiency of systems such as propulsion systems, automobile engines, gas turbines, steam power plants, and refrigerators. Special attention is paid to thermodynamics related to global energy issues.
Prerequisite(s): CH100
Credits: 3

**CH200 Physical Chemistry**
Focuses on fundamental topics of physical chemistry including the properties of gases, liquids, solids and solutions, thermochemistry and thermodynamics, chemical equilibrium, reaction rates, conductance and electromotive force.
Prerequisite(s): CH100
Credits: 3

**CIV100 Civil Engineering System**
An introduction to civil engineering design. Analyze needs, determine capacities and develop design alternatives for civil engineering systems. Structures, water and waste water facilities, geotechnical and transportation systems are studied.
Prerequisite(s): GEN100
Credits: 3

**CIV101 Building Construction**
Introduction to the legal, architectural, structural, mechanical, and electrical aspects of building construction. Principles of drawing and specification preparation and cost estimating.
Prerequisite(s): GEN100, CIV100
Credits: 3

**CIV102 Surveying and Mapping**
Introduction to survey measurements, distance, direction and elevations. Traverse computations and adjustment. Recording field measurements by hand and electronically. Emphasis on coordinate geometry calculations. Topographic surveying and mapping. Introduction to GIS (Geographic Information Systems) in order to store, manage, query and map project data.
Prerequisites: MATH150
Credits: 3

**EL100 (GE) Introduction to Electrical circuits with Lab**
The course covers the following topics: a) Electrical Quantities and Circuit Variables (charge, current, voltage, resistance, power and energy units), b) Circuit Modelling (sources, circuit elements, Ohm’s law and Kirchhoff’s laws), c) Circuit Reduction Techniques (series, parallel, voltage divider, current divider, delta-star conversion, voltage and current source conversions), d) Circuit Analysis Techniques (mesh and loop current analysis, node voltage analysis), e) Circuit Theorems (maximum power transfer, superposition, Thevenin and Norton), f) Energy Storage Circuit Elements, g) Complex Number Theory (complex plane, polar forms, conversions), h) AC Circuits (sinusoidal waveforms, phase, R.M.S. average values, phasors, analysis using node voltages, loop currents and branch currents).
Prerequisite(s): None
Credits: 4
EL150 Electromagnetic Fields and Waves
Topics covered include Maxwell’s equations, electrostatics and magnetostatics, fields of charge distributions, fields near conductors, method of images, material polarization and dielectrics, fields of current distributions, electric and magnetic dipoles, power and energy in electromagnetism, electromagnetic work, electrodynamics, electromagnetic waves, wave polarization, wave propagation in isotropic and anisotropic media, wave propagation in plasmas, reflection, transmission, and refraction of waves at media interfaces, wave propagation in periodic structures and photonic bandgaps, guided waves in transmission lines, microwave circuits and smith charts, transients in transmission lines, metallic waveguides, dielectric waveguides, radiation and antennas, wire antennas, antenna arrays, diffraction, and aperture antennas.
Prerequisite(s): PH100
Credits: 3

EL170 (GE) Introduction to Digital Systems with Lab
Topics to be covered in this course include Logic gates and Boolean Algebra, Combinational Logic, Arithmetic Circuits and common MSI Logic Circuits, Latches, Flip-flops, Registers and Counters, NMOS and CMOS based Logic Gates. The course also includes lab hours with examples based on Digital systems design using Matlab SW.
Prerequisite(s): MATH150
Credits: 3

EL200 Electronic Design I with Lab
Provides an introduction to active electronic devices and focuses on the design of analog electronic circuits. More specifically, course subjects include introductory semiconductor physics, p-n junctions, bipolar junction transistors (BJTs), field effect transistors (FETs), basic circuits and applications using transistors (differential amplifiers, digital logic, etc.), Laplace techniques for filter specification, amplification and filtering via linear operational amplifiers (op-amp) circuits.
Prerequisite(s): EL100
Credits: 4

EL220 Electronic Design II with Lab
Provides advanced design methods for active and passive electronic devices and focuses on the design of digital electronic circuits. Power electronic semiconductors, switch mode power converters, motor drives & their control. Digital signal interfacing, including optoelectronic and transceivers. Precision analog signal conditioning. High speed and low power techniques. Practical circuit construction and testing techniques. Examples will be investigated in lab with Autodesk SW.
Prerequisite(s): EL200
Credits: 3

EL250 Electric Energy Systems I with Lab
Prerequisite(s): EL100, MATH150, PH200
Credits: 3

EL270 Electric Energy Systems II with Lab
Advanced energy systems planning and operation with emphasis on advanced analysis methodologies and computer simulation. Penetration of renewable energy resources (RERs) into electrical networks in relation to the availability of energy storage systems (ESSs). Provision of ancillary services to electrical grids such as: balance of RERs energy production, balance local loads, reserves provision, islanded operation of distribution systems, integration into low voltage microgrids etc. Implementation and design of advanced Electric Energy Systems based on Matlab SW.
Prerequisite(s): EL250
Credits: 3
EL300 Automatic Control Systems with Lab
Prerequisite(s): MATH150
Credits: 3

EL310 Introduction to Unmanned Aircraft Systems
The course provides an overview of UASs structure and functionality. It includes a description of the different designs of UAS and the purposes of each of them. Students will be able to understand the difference between a toy UAS (drone) and a commercialized one, and to analyze the main functions of a UAS: detecting water masses, disease detection, soil management, irrigation and drainage management, rhino protection, land surveying and many more. The students also get to know the limitations of UAS, its legislation framework (nationally and internationally), the technical capabilities of the UAS and the type of equipment it can carry.
Prerequisite(s): MATH150
Credits: 3

EL311 Wireless Communication Networks for UAS
This course analyses wireless communication systems that include unmanned aerial vehicles (UAVs). The communication channels will be presented and the importance of short-range line-of-sight (LoS) links is analyzed. Special attention is given to the challenges introduced by the utilization of highly mobile and energy constrained UAVs for wireless communications. The basic networking architecture and main channel characteristics are explained in detail, highlighting the key design considerations as well as the new opportunities to be exploited
Prerequisite(s): EL150
Credits: 3

EL400 Signals and Systems I with Lab
Provides basic concepts on signals and systems both in analog and discrete time. Convolution, correlation, autocorrelation, sampling of sinusoidal signals, stationary and ergodic signals, Fourier transform. Linear, time-invariance systems, frequency response and system realization, z-transform, Discrete Fourier Transform, comparison in the continuous and discrete domains, characteristic signals and application domains. Hands – on examples and design on Lab based on Matlab SW.
Prerequisite(s): EL100, MATH150
Credits: 3

EL450 Signals and Systems II with Lab
Analyzes advanced concepts on signals and systems in analog and discrete time focusing on noise in communication systems, line of sight radio links, amplitude modulation and demodulation, angle modulation and demodulation (phase modulation and frequency modulation). Systems’ implementations are carried out in lab equipped with Matlab SW.
Prerequisite(s): EL400
Credits: 3

GEN100 (GE) Introduction to Engineering with Design Lab
Includes an overview of the problems, perspectives, and methods of the engineering profession. Modelling of real-world problems for purposes of optimization, decision-making and design are analyzed. Practical techniques of problem formulation and analysis are also presented. Additionally, practice drawings are explained, and assigned drawings are completed by students both during lab periods and outside of class.
Prerequisite(s): None
Credits: 4

GEN101 Engineering Mechanics
Behavior of mechanical and structural systems under load. Topics include effects and distribution of forces on rigid bodies at rest; kinematics and kinetics of particles; force systems; shear and moment diagrams; force-stress-strain-deformation relationships, including torsion and combined loading; buckling and stability analysis; and, stress/strain transformation.
Prerequisite(s): PH100
Credits: 3

GEN102 Engineering Measurements with Lab
In this course, students will: Understand the basic engineering laboratory techniques and procedures of experimental planning and design, data collection and analysis; Use modern data acquisition tools to collect
experimental data; Analyze data and present the results in clear and concise reports; Compare against theoretical results; Assess uncertainty and error sources in measurement systems; and write technical reports. 
Prerequisite(s): MATH150  
Credits: 3
GEN103 Engineering Material and Devices
Introduction to Materials: review of physical concepts; structure of materials and influence on properties, relative costs of materials; information sources for properties and size standardization. Mechanics of Materials: review of terminology and concepts; stress, strain, elasticity, yield and strength; ultimate stress; Hooke’s Law, Young’s Modulus, Poisson’s Ratio; tension, compression, shear; thermal stress; strain energy; torsion in shafts; deflection of beams; shear, bending moment; stress. Friction and failure of materials.
Prerequisite(s): None
Credits: 3

GEN300 Global Engineering Leadership
Aims to help provide engineers with the business leadership skills they need to advance their careers in enterprise management, being exposed to the latest business trends and thinking from experts in US and Europe. It focuses on the basic principles and practice of leadership in engineering environments. The modules focus on the principles and practice of leadership and management in private, public and not-for-profit engineering organizations. Topics include leadership, management, organizational behavior, entrepreneurship, ethics, innovation, communication, collaboration and competition, and conflict resolution. The course includes team-based projects in which the students have an opportunity to reflect upon and apply what they are learning.
Prerequisite(s): None
Credits: 3

GEN499 Capstone Project
Culminating activity for the undergraduate major. Includes preparation, presentation, discussion, and evaluation of a practical project developed and written by each student.
Prerequisite(s): All required courses
Credits: 3

MATH250 (GE) Calculus II
Develops different mathematical techniques and investigates various examples and applications, emphasizing in techniques and applications of derivatives and integration, multiple integrals, limits, continuity, series and polar coordinates.
Prerequisite(s): MATH150
Credits: 3

MATH350 (GE) Differential equations with linear algebra
Develops different fundamental methods of solving first and higher order equations and analyzes essentials of matrix algebra, linear and nonlinear systems, power series solutions and Laplace transforms.
Prerequisite(s): MATH150
Credits: 3

MATH450 Statistics for Engineers and Scientists
Introduces the design of controlled experiments and the collection and analysis of scientific data covering descriptive statistics, probability, mean, variance, parameter estimation, random variables and distributions, hypothesis testing, regression and correlation, analysis of variance, and multifactor experimental designs. Appropriate software package is used.
Prerequisite(s): MATH150, MATH250
Credits: 3

MATH500 Multidimensional Calculus
Covers the following subjects: partial differentiation, composite functions, transformations, chain rules, vector algebra and functions, gradient, divergence, curl, curves and surfaces, multiple integrals, line integrals, surface integrals, divergence, Green’s and Stoke’s theorem.
Prerequisite(s): MATH400
Credits: 3

ME100 Introduction to Engineering Design and Solid Modeling
Explores the product design process via team design projects. Student work through laboratory exercises and products are examined from various perspectives such as societal, historical design, safety and manufacturing. More specifically, subjects such as ideation, sketching, design constraints, solid modeling, decision making, statistical quality control, manufacturing methods and engineering analysis are covered.
Prerequisite(s): MATH150
Credits: 3
ME200 Introduction to Material Science
Analyzes the concepts of materials science and the relation of structure of material properties. More specifically, subjects such as atomic structure, mechanical properties of materials, bonding material transport, phase diagrams, solidification, solid state transformations, and corrosion and oxidation are covered.
Prerequisite(s): CH100
Credits: 3

PH100 (GE) Physics with Lab
Focuses on basic and current understandings of physics’ problems and principles. Some of the topics to be studied include motion, forces, energy, and chemical reactions. Students will also be learning about machines, electricity, and magnetism. As students learn about each of the abovementioned topics, they will be conducting laboratory activities. For these activities students will be paired with one or more of their classmates.
Prerequisite(s): MATH150
Credits: 4

PH200 (GE) General Physics II
Focuses on fundamental topics of physics including waves, optics, sound, heat, electricity, circuits magnetic and electromagnetic fields, and thermodynamics.
Prerequisite(s): MATH150, PH100
Credits: 4

PH300 Thermodynamics
This course covers the following subjects: Properties of a pure substance, work and heat, laws of thermodynamics, entropy, thermodynamic relations, and cycles.
Prerequisite(s): PH100, PH200
Credits: 3
MBA Course Descriptions

BUS501 Functional Skills Integration
Students are engaged in interactive seminars and workshops that reshape how they think, act, and perceive themselves. Through feedback and self-reflection, students focus on their emotional intelligence and develop a growing awareness of their own styles of professional conduct and management.
Prerequisites: Completion of all MBA core courses or permission by program director.
To be taken in the last term of study Credits: 3

BUS511 The Business Landscape
Provides a holistic view of an enterprise framed through the basic concepts of management functions. Contemporary business challenges are identified and studied, focusing on how to address issues and exploit opportunities in a competitive business environment.
Prerequisites: None Credits: 3

BUS512 Leadership and Organizational Behavior
Focuses on the behavior of people at work as well as the way they interact in the organizational environment with effects on organizational performance and effectiveness. It examines different systems, structures and processes, and is divided into two modules moving from individual behavior to the organization with emphasis on leading change. Topics include: self-awareness, work attitudes, emotions, organizational dynamics, and new leadership roles as ambidexterity, agility and managing complexity.
Prerequisites: None Credits: 3

BUS513 Business Policy and the International Economy
Focuses on the fundamental economic concepts necessary for managerial decision making and how those interplay with business policy. It introduces tools which are essential for understanding the global economic environment within which businesses operate and focuses on how optimal business decisions should be made by taking into consideration economic factors.
Prerequisites: None Credits: 3

BUS514 Ethics Law and CSR
Provides an understanding of the fundamental principles and laws that form the legal environment in which all businesses function, as well as of important legal issues that may affect day-to-day business activities. Areas of study include legal issues concerning internal and external stakeholders (personnel, customers, suppliers and competitors). Topics in ethics to be discussed include the special responsibilities of professionals, the obligations of corporations concerning the environment and product safety, and employee rights. Emphasis will be given to the mastery of representative ethical systems and concepts, and their application to real-life situations.
Prerequisites: None Credits: 3

BUS516 Total Rewards
Provides an understanding for the reward functions that contemporary organizations implement. It examines various compensations and benefits strategies offering a multinational perspective for total and flexible rewards dominate the global market place. Topics include: job analysis, wage scales, pension and benefits, incentives, HRIS systems, compensation and benefit planning and profit sharing.
Prerequisites: None Credits: 3

BUS517 Employment Relations
Emphasizes the aspects of employment relations from both a US and a European perspective. It provides students with an overview of the legal framework at work discussing the regulatory revolution, employment contracts, discrimination, equal opportunity and diversity as well as discipline and grievance. Other topics also include: collective bargaining, employee involvement and participation and special topics on unionism, conciliation and arbitration, and redundancy procedures.
Prerequisites: None Credits: 3
BUS518 Business Analysis and Service Management
Covers the principles of Business Analysis as defined by IIBA and Service Management as defined by ITIL. Beyond the theoretical background, a practical approach is adopted in order to provide an understanding of the way these principles are applied in order to achieve operational excellence.
Prerequisites: None
Credits: 3

BUS519 Digital Marketing Analytics
Focuses on understanding and implementing the digital media landscape and digital analytic concepts. The course explores the digital marketing tools including: e-mail marketing, newsletter release, social media listening, Search Engine Optimization (SEO) analytics, conversion optimization, digital content management – website architecture and consumer engagement analytics in creating marketing decision making. The course focuses on legal and ethical issues of digital marketing. The course focuses on using digital marketing analytics in formulating effective and efficient company–customer quality relationships, new product development. The course optimally leads to On-Line Marketing Certified Associate (OMCA).
Prerequisites: None
Credits: 3

BUS520 Integrating Marketing in a Digital Age
Introduces students to on-line / off-line marketing operations in various business markets. It is true that the digital era is apparently strong and developing as a marketing business practice. Regardless of the industry, sector, or geography, the marketing student needs to understand the power of digital marketing applied strategies and practices. The course focuses on relationship marketing theory as the means of a service–dominant business approach into the markets. The course focuses on digital marketing planning and implementation practices, reporting and the impact digital marketing management has on differentiated marketing activities.
Prerequisites: None
Credits: 3

BUS526 Marketing Management
Provides an overview of marketing processes and principles, and gives students the opportunity to apply the key marketing concepts to real-business situations. The course teaches students to identify and explore the significance of market needs, to plan for the development of goods and services, to organize communication campaigns, and to develop marketing strategy for internationalization of the enterprise. Topics include the development of commercial relationships, building successful brands, and strategic market planning.
Prerequisites: None
Credits: 3

BUS527HR Strategic Human Resources Management
Provides a thorough understanding of how people are managed at work. The focus is on key HR practices and activities ranging from job analysis to training and rewards systems. Additional critical, applied, and theoretical contemporary HR approaches such as flexible working, outsourcing, employee involvement and commitment at the work place are also discussed.
Prerequisites: None
Credits: 3

BUS528 Managerial Finance
Introduces students to the principles of managerial finance. The course covers the basic principles of corporate finance and the elements needed for financial management, planning, decision-making, and valuation in a business enterprise. The areas of study include: financial markets and instruments, time value of money, valuation of assets and projects under certainty and uncertainty, and corporate financing policy. It concludes with a critical approach of the mergers and acquisitions strategies in the modern financial environment.
Prerequisites: None
Credits: 3

BUS529 Managing for Sales
Aims at exploring alternative sales management strategies as part of the people management competency of the MBA program as well as sales applications and practices within a competitive business environment. More analytically, the course focuses on effective and efficient line management of sales-ops, sales and forecasting techniques as preparation for effective selling practices, account and territory management, development of selling roles, skills and competencies. Finally, the course examines the role of selling within the Customer Relationship Management framework and hence, building of long-lasting business relationships.
Prerequisites: None
Credits: 3
BUS530 Green Salary - Business Management for Climate Change Mitigation
Designed for students interested in climate education for business professionals, the course provides an introduction to issues of biopolicy and green employment and shows how climate change adaptation schemes apply to current and future business management practices and career tracks.
Prerequisites: None
Credits: 3

BUS6109 Accounting for Decision Making
Explores financial and managerial accounting and procedures, with a focus on the content, analysis, and interpretation of financial and management accounting information. Topics include techniques and tools for planning, control, and decision making in an effort to achieve organizational goals.
Prerequisites: None
Credits: 3

BUS6110 Operations Research
Provides a framework for conducting research in a scientific manner in all areas of business. It examines the role of statistics and forecasting in the business decision-making and planning process. Topics include problem identification, research design, data collection methods, sample design, data analysis and interpretation and report preparation.
Prerequisites: None
Credits: 3

BUS6111 Technology and Operations Management
Explores service management, business analysis and operations management. Essential knowledge of standard frameworks for service management (ITIL), business analysis (BABOK) and project management (PMBOK) in the context of decision making are discussed. It also focuses on the importance of technology and information use in decision making, and the achievement of organizational goals.
Prerequisites: None
Credits: 3

BUS6120 Strategy
Strategy definition and dissemination within a firm are discussed in this course using a multilevel approach. Intra-industry analysis, resources and capabilities analysis, and understanding of sustainable competitive advantage are explored.
Prerequisites: None
Credits: 3

BUS6277CCM Cross Cultural Management
Focuses on negotiation in the global business setting, on culture and negotiation strategy, culture and negotiators’ interests, and culture and negotiation ethics. It also covers factors such as dispute resolution venue, currency, and having government on the other side of the table.
Prerequisites: None
Credits: 3

BUS6280 Project Portfolio Management
During the past decade, Project Portfolio management frameworks have been increasingly supported by executives in order to enable their organizations to better align resources and project investments with their strategic objectives. This course presents globally recognized management structures, processes and best practices which enable organizations to effectively & efficiently manage projects for the purpose of achieving their strategic objectives. The course presents methods for defining Projects, Programs and Portfolios, prioritizing strategic objectives, evaluating Project alignment with anticipated benefits, determining optimal combinations of programs and projects within portfolios, establishing portfolio performance measures and periodically reevaluating ongoing projects throughout the portfolio’s life cycle.
Prerequisites: None
Credits: 3

CP6300 Capstone Project
Students demonstrate knowledge and skills integration acquired across the MBA program, the ability to conduct high level analysis of business issues, and to develop robust recommendations and solutions to the business issues they investigate. Through the project, students hone their critical analysis, empirical investigation, managerial argumentation, decision making, persuasion and project management skills, valuable for the enhancement of their professional careers.
Prerequisites: Completion of all program requirements or permission by program director.
To be taken in the last term of study.
Credits: 3
GAM6800 Global Air Transport Strategies
Analyzes the economic and managerial factors involved in global air transport operations. Emphasis is placed on demand analysis, pricing, route structure, fleet planning and financing. A simulation of airline operations may also be used to provide practical insights into the problems faced in managing an airline.
Prerequisites: None
Credits: 3

GAM6810 Global Air Transportation System
Promotes a greater awareness of the international aviation system in regard to regulation and the international organizations involved in the global aviation industry. In addition to international public law and a review of key international conventions, topics such as safety, environmental and security management are addressed as well as aviation insurance.
Prerequisites: None
Credits: 3

GM6271 International Business
Provides an overview of the environment, structures, and systems that are the basis for international business. Students are exposed to the geography, cultures, economies, politics, and other infrastructures of major market areas of the world. The course develops team and individual organizational skills and capabilities in intercultural communication, strategic management, and the negotiation, implementation and evaluation of international business issues.
Prerequisites: None
Credits: 3

GM6274 International Marketing
Examines the challenge of entering and operating effectively in foreign markets. It investigates how decisions need to be made regarding international marketing objectives, strategies and policies, foreign market selection, adaptation of products, distribution channels of communications to fit each foreign market, and systems of international marketing organization, information gathering, planning and control.
Prerequisites: None
Credits: 3

MGT6126 Project Management
Covers the management of projects within an organizational context, including the processes related to initiating, planning, executing, controlling, reporting, and closing a project. Project integration, scope, time, cost, quality control, and risk management are also explored. Managing the changes in organizations resulting from introducing or revising information systems is examined, as are identifying project champions, working with user teams, training, and documentation.
Prerequisites: None
Credits: 3

MGT6130 Entrepreneurship and New Venture Management
Offers a framework for understanding the entrepreneurial process, and exposes students to challenges, problems, and issues faced by entrepreneurs who start new ventures. Major objectives are for students to learn how to identify and evaluate business opportunities, develop a business concept and marketing plan, assess and obtain the required resources, manage the growth of new ventures, and plan exit strategies.
Prerequisites: None
Credits: 3

PR6241 Strategic Communication and Public Relations
Students are introduced to public relations as a strategic, planned process to influence public opinion through sound character performance, based on mutually satisfactory two-way communication. The course covers the Public Relations functions that help an organization and its publics to mutually adapt to each other. Topics include: strategic communication, media relations, the management of issues (crisis management), community relations, consumer relations, international relations, and public opinion management.
Prerequisites: None
Credits: 3

PR6245 Special Event Management
Introduces students to special event planning, as well as to marketing and management processes and techniques in event management. The course uses an interactive methodology to discuss the trends and benefits of special events, as well as the special event planning cycle. Students learn techniques to promote the corporate image, draw publicity, re-energize old concepts/products, enhance the organization’s reputation, introduce new services, and restore the corporate image in a crisis situation.
Prerequisites: None
Credits: 3
PR6248 Crisis Management
Offers an attitude adjustment about crises. The course uses crises case studies and real-time crisis scenarios to teach students sound planning and crisis forecasting techniques. A practical, business-oriented overview introduces students to strategic communication techniques on how to avoid interfering with normal operations of business and falling under media scrutiny, and how to protect the corporate image or a company’s bottom line during a crisis situation.
Prerequisites: None
Credits: 3

PR6250 Branding and Communications
Introduces students to the principles of branding and integrated marketing communications. The course familiarizes students with the practice of marketing communications and its role in creating value for the firm and its stakeholders. Special reference is made to advertising, media planning, and the differences between marketing and public relations. Furthermore, it introduces students to current applications of integrated communications practice in the competitive environment.
Prerequisites: None
Credits: 3

SHM510 Shipping Operations and Management
This course focuses on the operational, managerial and financial characteristics of the Shipping industry in an international context and on the global business skills and understanding that managers in the industry must possess to help their firms compete effectively in an uncertain business environment optimizing their resources.
Prerequisites: None
Credits: 3

SHM511 Marine and Surveying Management
This course addresses all fundamental issues related to a flag and classification society’s requirements to keep a commercial ship in proper legal and technical order with respect to their certification regime and to ensure a seamless shipping operation.
Prerequisites: None
Credits: 3

SHM512 Statutory Shipping Requirements
This course focuses on ISM, ISPS, MLC and STCW requirements and explores how a modern and reliable shipping company can remain in compliance with those requirements without compromising economic efficiency, the safety of people on board, and the protection of the environment.
Prerequisites: None
Credits: 3

TRA6700 International Multimodal Transportation Seminar
Analyzes the economic and managerial factors involved in global intermodal transport operations. Regime issues in international transportation are examined by exploring the main economic, operational, strategic, financial, and managerial characteristics of all transportation modes in a comparative fashion. This is an overview course that provides a fundamental understanding of each transportation mode and the way they relate to one another in forming a global transportation chain.
Prerequisites: None
Credits: 3
**MSIT Information Technology Course Descriptions**

**IT6260 Database Management Systems**
Covers the concepts, principles, issues and techniques for managing corporate data resources. Students learn techniques for managing the design and development of large database systems including logical data models, concurrent processing, database administration, data distribution, integrity, security and access are examined. Topics include data modeling, SQL and database architectures and implementations, data warehousing, data cleansing, and data mining. Major database products like Oracle, DB2, SQL Server 2005, along with open source solutions, are comparatively presented and evaluated.
Prerequisites: None
Credits: 3

**IT6261 Data and Communication Networks**
Covers telecommunications fundamentals, including data, voice, image, and video. The concepts, models, architectures, protocols, standards, and security for the design, implementation, and management of digital networks are examined. The essentials of local area networks (LAN), metropolitan area networks (MAN), and wide area networks (WAN) are covered, as well as both transmission and switching efficiency. Also covered are regulatory and technical environments, security and authentication, network operating systems, e-commerce and associated web sites and practices, and middleware for wireless systems, multimedia, and conferencing.
Prerequisites: None
Credits: 3

**IT6262 Systems Analysis and Design**
Covers the systems development life cycle, analysis and design techniques, requirements collection and structuring, process modeling, data modeling, design of interface and data management, and middleware design. Students will use current methods, tools, and methodologies including the latest UML platforms, prototyping & visual development.
Prerequisites: None
Credits: 3

**IT6264 IT Management and Strategy**
Presents management and strategic perspectives for aligning competitive strategy, core competencies, and information systems. The course explores the development and implementation of policies and plans to achieve organizational goals. It defines the systems that support the operational, administrative, and strategic needs of the organization, its business units, and individual employees. Students learn approaches to managing the information systems function in organizations, including examination of the dual challenges of effectively controlling the use of well-established information technologies, while experimenting with selected emerging technologies.
Prerequisites: None
Credits: 3

**IT6290 Graduate Seminar**
Introduces state-of-the-art technology and IT management practices and their application to enterprise operations and management, familiarizes the students with the local and international information systems needs, and presents existing practices and technologies. The choice of subjects will be guided by local and international industry needs. Therefore, each year the focus might change according to industry requests.
Prerequisites: None
Credits: 3

**IT6300 Master’s Thesis**
Aims to expose students to real-life situations encountered in business environments through the development of original and practical applications. The Thesis will enable students to gain experience in all phases of the implementation and management of information systems, applying the knowledge and skills they have acquired in different course modules. Alternatively, students can opt to do an in-depth study of a research topic, including bibliographic review and the development and implementation of the technological aspects of the topic, as preparation for writing the thesis. Students select a topic of interest and a personal supervisor for completing the Master Thesis.
Prerequisites: None
Credits: 3
IT6122 E-Business and E-Commerce Management
Provides instruction in all aspects of e-business operations, from front-office marketing, commerce, sales and customer service, to back-office operations, including human resource administration and supply-chain management. Additionally, emphasis will be placed on the use of e-business models to enable the Internet to function as a trusted medium for carrying on day-to-day business activities and enhance the performance of an organization.
Prerequisites: None
Credits: 3

IT6125 Decision Support Systems
Addresses the role of management support systems in decision-making within organizations by combining data, sophisticated analytical models and tools, and user-friendly software into a single powerful system. Data from internal and external sources are examined to help monitor organizational performance, track activities of competitors, spot problems, identify opportunities, and forecast trends. Topics include data mining, artificial intelligence techniques, and agent technologies.
Prerequisites: None
Credits: 3

IT6263 E-Business Technologies
Offers students the opportunity to explore modern design methodologies that allow for the development of scalable and decoupled components. Technologies such as XML, Web Services and Enterprise Development Environments will be investigated. The course investigates current IT trends and methodologies that yield efficient and effective solutions to sustain a competitive edge in today’s businesses. Students will be able to synthesize and select the appropriate technology to engineer modern enterprise solutions.
Prerequisites: None
Credits: 3

IT6265 Enterprise Systems Applications
Introduces business processes and the integration of Enterprise Systems with a focus on the core modules of financial accounting, cost management, materials management, sales and distribution, and production planning and control. The course builds an understanding of enterprise system processes and configuration activities, which occur in companies using Enterprise Systems. Students will understand the business activities that these systems support, allowing them to be prepared for business, technical, or system support roles. Hands-on experience and demonstrations of successful Enterprise System such as SAP R/3, are provided so that students can put into practice the theory that supports business activities.
Prerequisites: None
Credits: 3

IT6266 Application Development Environment and Technology
Covers object-oriented and procedural software engineering methodologies that bring together key technologies and insights for the development of robust, reliable, enterprise-class Web and distributed applications. Major technology solutions such as .NET and J2EE are presented.
Prerequisites: None
Credits: 3

IT6267 Electronic Commerce Programming
Focuses on electronic commerce applications, technologies, and tools which are used to conduct business on the World Wide Web. It reviews foundations of e-commerce, its infrastructure, current business models in business-to-customers (B2C) and business-to-business (B2B) transactions, security and quality assurance, web site design strategies, payment systems, and various issues--Internet marketing, legal, regulatory, technological, social, and ethical--which relate to electronic business, systems development issues, electronic data interchange, web-based marketing, e-supply chains, e-procurement, emarketplace, customer relationship management, and web-enabling mobile. A major part of the course will be devoted to hands-on practices covering client-side (front-end) and server-side (back-end) applications in web-based business information systems. Essentials of contemporary programming tools for e-commerce development such as HTML, XML, ASP (VB/JavaScript) will be explored. E-Business case studies are used to demonstrate the advantages and the challenges related to integrating ecommerce applications.
Prerequisites: None
Credits: 3
IT6268 Information Technology Hardware and Software
Students will gain an in-depth exposure to information technology hardware and software components and their interaction. A systems view of computer systems will be used to identify computer and telecommunication system components. Peripheral devices will be described and principles of operation will be studied and learned. The operating system software, including I/O drivers, and telecommunication applications and extensions to the operating system will be examined and utilized. Organization of the operating system will be studied to understand how concurrent processes, scheduling, memory management, and I/O are accomplished. Telecommunication devices will be identified and system integration considerations will be presented. Finally, switches, multiplexers, and media will be explored as basic components of telephone, LAN, and WAN systems.
Prerequisites: None
Credits: 3

IT6270 Human-Computer Interaction
Provides a detailed understanding of the principles and practices involved in the creation and implementation of user interfaces and, more specifically, the theory and practice of human computer interaction. Students learn how to design, implement, and evaluate human computer interaction and become familiar with the most common toolkits used in user interface design. The course focuses on usability and accessibility, presenting the most common usability methods and accessibility guidelines. Finally, a special section of the course is devoted to user interface design for ubiquitous devices such as mobiles, PDAs and Tablet PCs, while other emerging technologies will be examined.
Prerequisites: None
Credits: 3

IT6271 Advanced Operating Systems
Focuses on the principles, key ideas, and issues in the design and implementation of computer operating systems and distributes systems. The course covers topics such as concurrency and distributed communication, fault-tolerance, availability and persistence, and operating system structure. In addition, students focus on the principles used in the design of operating systems and distributed systems, and algorithms and data structures used in their implementation.
Prerequisites: None
Credits: 3

IT6272 Advanced Programming Languages
Introduces the theory and practice of programming language design. Topics presented include advanced language constructs, parallel programming, formal specification and implementation of programming languages, and compiler construction tools. In the context of the course, students design and implement a small and simple programming language.
Prerequisites: None
Credits: 3

IT6273 Advanced Software Engineering
Provides students with both a theoretical and a practical foundation in advanced software engineering concepts. In the theoretical part, students learn about the principles and methods of software engineering, including current and emerging software engineering practices and support tools. In the practical part, students become familiar with the development of software products from an industry perspective, including generation of appropriate documents under tight schedules and with limited resources.
Prerequisites: None
Credits: 3

IT6274 Data-mining and Data-Warehousing
Covers the fundamentals of data warehousing architecture and the issues of planning, designing, and building, populating, and maintaining a successful data warehouse. In addition, data mining is introduced and linked with the data warehouses. Various topics include logical design of a data warehouse, the data staging area, and the use of multidimensional analysis using OLAP techniques, as well as future trends in data mining. Various data mining systems are presented.
Prerequisites: None
Credits: 3
**IT6275 Wireless and Mobile Networks**
Aims to familiarize students with the advancements in wireless and mobile networks using various methods such as lecture notes from the adopted textbook, various scientific papers and case studies for the new developments in the subject, hands-on-experience methods in class, and lectures by invited speakers who will share their experience. Key wireless topics such as radio frequency communications, infrared and Bluetooth networks, as well as wireless LANs, will be introduce and explained.
Prerequisites: None
Credits: 3

**IT6276 Information Security Management**
Prerequisites: None
Credits: 3

**IT6277 Artificial Intelligence & Neural Networks**
Introduces the basic concepts and methods of artificial intelligence (AI) and neural networks (NNs) from a computer science perspective. Students learn how to design AI and NNs models for different applications. Emphasis is given on the selection of data representations and algorithms useful in the design and implementation of intelligent systems. Students participate in lectures and discussions on various topics, including heuristic, logical and probabilistic reasoning, planning, learning, and perception. Advanced topics are selected from areas such as robotics, vision and neural networks.
Prerequisites: None
Credits: 3

**IT6278 Governance and Compliance**
Governance, Risk and Compliance (GRC) are key concerns for an organization. Related activities are integrated and aligned to provide a unified approach to such issues, reflecting management’s overall strategy and approach. Executive commitment and the overall management approach are critical for the success of an information security program. This course examines methods for establishing and maintaining an information security governance framework. Risk assessment and risk management are key processes of this framework. Different approaches to information risk analysis are presented and compared. Finally, legal and regulatory compliance mandates the existence of specific controls to ensure an adequate level of security.
Prerequisites: None
Credits: 3

**IT6279 Applied Cryptography**
Cryptography plays a major role in securing information, communications and computer systems. Modern cryptographic algorithms are based on a solid mathematical basis. This course focuses more on the applications of cryptography in securing information systems rather than the mathematical background. In this course, several classes of cryptographic algorithms and how they can be used to provide different security services, such as confidentiality and integrity are examined. Issues related to creating, distributing and managing cryptographic keys are also discussed.
Prerequisites: None
Credits: 3

**IT6280 Network and Computer Security**
The security threats and risks that govern computer systems and networks can be mitigated by using a variety of security models, mechanisms and protocols. Such mechanisms are used to implement security policies that are defined in a risk management strategy. Designing security architecture is a critical task that includes securing hardware, software and networks. This course introduces security models and the concept of subjects and objects in order to discuss authorization and access control. Case studies of how authentication and access control are implemented in real-life systems are also presented. Security risks that are related to networks are equally important. We define secure communication channels and present known and established network security protocols (SSH, SSL, IPSec, etc.). Special cases such as wireless and mobile networks are also examined to demonstrate how traditional security architectures can be adapted to facilitate different requirements.
Prerequisites: None
Credits: 3
**IT6281 Business and Continuity Management**

Business Continuity Planning is an integral part of an information security management program. Since we cannot achieve 100% security, it is essential to have established all necessary procedures in order to identify and respond to an incident, which will sooner or later occur, ensuring the continuity of business. Incident management is only one aspect of Business Continuity. Designing, developing and implementing a business continuity plan is thoroughly explained in this course, identifying all necessary steps from executing a business impact assessment to defining roles, responsibilities and continuity procedures. Disaster Recovery Planning, covering all necessary processes required to recover business-critical infrastructure in the event of a disaster is also discussed.

Prerequisites: None

Credits: 3

**IT6282 Application Risk Management**

Software applications are often characterized as the cement of our times due to the high prevalence of computer systems in all aspects of our lives: banking, health, transportation, retail, even “smart home” systems. As a result, managing application security risks is a quite critical aspect of information security. This course aims to justify the importance of application security, firstly by analyzing how security can be integrated in the software development lifecycle. Methods to identify vulnerabilities are demonstrated and techniques that can be used to mitigate them and improve the overall security of software applications are discussed. Closely coupled with applications are databases that support them and facilitate data storage, retrieval and corresponding transactions. Concurrency control is a critical issue in database security. Methods for concurrency control and several aspects of database security, focusing on relational databases are also discussed.

Prerequisites: None

Credits: 3

**IT6530 Graph Theory**

Covers the basics of graph theory; the objective is to build the strong background required for students enrolled in the social networks program. The material to be covered includes: Fundamental concepts of graphs; Classification of nodes and links; Vector spaces and graphs; Topological parameters: packings and coverings; Connectivity; Hamilton graphs; Graph factorization; Graph coloring; partite graphs; and folding.

Prerequisites: None

Credits: 3

**IT6540 Investigative Data Mining**

This course presents models, methods, and techniques for studying and analyzing Criminal Networks. More specifically, mathematical and computer science methods and techniques to fight crime are presented, such as information harvesting and integration, Modeling Criminal Activity, Strength of Structures of Small Sizes, Qualitative and Quantitative Temporal Reasoning, and others.

Prerequisites: None

Credits: 3

**IT6550 Social Networking Analysis and Mining**

Introduces students to the basic concepts and techniques in social networks analysis. Students learn how and when to apply different metrics for social network analysis. Topics to be covered include: identifying key individuals and groups in social systems; detecting and generating fundamental network structures, studying hidden communities, and modeling growth and diffusion processes in networks. Students will learn how to use different tools for social network analysis.

Prerequisites: None

Credits: 3

**IT6545 Pattern Analysis and Detection**

The objective of this course is to present the fundamentals of pattern analysis and detection in numerical data. Topics include techniques for handling multidimensional data of various types and scales along with algorithms for clustering and classifying data. Decision theory, statistical classification, maximum likelihood and Bayesian estimation, Linear Discriminant Functions, Multilayer Neural Networks and Stochastic Methods will also be discussed.

Prerequisites: None

Credits: 3
MGT6126 Project Management
Covers the management of projects within an organizational context, including the processes related to initiating, planning, executing, controlling, reporting, and closing a project. Project integration, scope, time, cost, quality control, and risk management are also explored. Focus is given to the IT area. Hands-on experience on using a Project Management tool is provided.
Prerequisites: None
Credits: 3
MAAL Course Descriptions

AL01 Introduction to Applied Linguistics and Language Education
Provides students with an overview of the field of Applied Linguistics, its history, branches and scope. It offers the basis from which to pursue studies in various sub-fields such as language teaching and language testing. A current review of the state of the art is linked to the core purpose of resolving serious language based problems in society and how these insights enhance language use and language learning outcomes revealing the interdisciplinary nature of the field.
Prerequisites: None
Credits: 3

AL04 Language and Society
Introduces students to the basic theories, concepts, and issues in general sociolinguistics. It gives students an understanding of the interaction between language and a variety of social factors, including gender, class, ethnicity, cultural norms, and political orientation. Students also learn about dialectal and stylistic variation, and how such variation affects language attitudes, social stereotypes, and language change over time. Finally, applications of sociolinguistic research to professional contexts, especially language education, are also discussed.
Prerequisites: AL01
Credits: 3

AL05 Discourse Analysis
Introduces the student to approaches to the analysis of discourse analysis and suggests practical applications to language teaching. The course is divided into two parts. The first part deals with written discourse. The second part focuses on spoken discourse and with particular emphasis on classroom language.
Prerequisites: AL01
Credits: 3

AL06 Understanding Research in Applied Linguistics
Provides an overview of research methods in Applied Linguistics. The course explores key issues in designing and implementing research projects, as well as analyzing results. Topics covered include data collection techniques, such as ethnographic observation, survey and interview design, as well as qualitative and quantitative data analysis. The course also facilitates comprehension of published research articles in the field and prepares students to make their own research contributions.
Prerequisites: TE02
Credits: 3

AL07 Thesis
At the end of the taught part of the course, students will be required to write a 12,000-word dissertation on a topic that will be agreed upon with their supervisor. Advice and guidance is given in formulating and refining the research topic, conducting research, analyzing data, literature review, and documentation of sources. The dissertation offers students the opportunity to carry out independent research in an area of their interest and to apply the knowledge and the skills they have acquired to the investigation of a particular issue or problem.
Prerequisites: All required and elective courses
Credits: 3

AL10 Intercultural Communication
Focuses on the importance of culture in education as well as in everyday life, and the ways in which culture interrelates with and affects communication. Further, it focuses on a discourse approach aiming to address and examine confusion in goals or in interpreting the main points of another person’s speech caused by the fact that each side uses different principles of discourse to organize the way they speak. The course addresses the individual in the moment of taking social action with other people focusing on the various discursive resources available. The course helps learners communicate making sense of the world’s cultural, linguistic, ethnic and social diversity and through a variety of communication encounters helps them become more conscious of many of the actions and attitudes of the target language community.
Prerequisites: AL01
Credits: 3
AL11 Critical Discourse Analysis
Discusses the connection between language, power and ideology. The course seeks to discuss theories, techniques and methods which better realize and interpret this connection. It also describes the practices and conventions in texts (written and oral) which carry political and/or ideological weight. The course focuses on the understanding that meaning is generally communicated not only through language but also through other semiotic modes.
Prerequisites: None
Credits: 3

TE01 Theory and Methods in TESOL
This course is designed to introduce students to a variety of theories, approaches and methods in Teaching English to Speakers of Other Languages (TESOL), both from a historical and contemporary perspective. It addresses issues related to the respective roles of the teacher and learner, course design and materials, and the use of technology in teaching and learning.
Prerequisites: AL01
Credits: 3

TE02 Second Language Acquisition
Explores how second languages are learned and focuses on the relationship between teaching methods and second language acquisition theory. The course examines how learners create a new language system, what is learned of a second language, and what is not learned. It also covers the nature of learner hypotheses (conscious and unconscious) regarding the rules of the second language and why some learners are more successful than others.
Prerequisites: None; Co-requisites: AL01
Credits: 3

TE03 Teaching Reading and Writing in English to Speakers of Other Languages (ESOL)
Focuses on the teaching and researching of Reading and Writing of English for Speakers of Other Languages (ESOL). It examines the processes involved in reading and writing and the sub-skills required to master different levels of communicative competence. It looks at methods for designing reading and writing courses, selecting curricular materials and planning instruction. It also explores the essential role of systematic vocabulary development in L2 literacy, and includes practical methods for assessing L2 students’ proficiency, achievement, and progress in the classroom.
Prerequisites: AL01, TE02
Credits: 3

TE04 Teaching Listening and Speaking to Speakers of Other Languages (ESOL)
Examines the teaching and researching of listening and speaking and their sub-skills for Speakers of Other Languages (ESOL). Students in the course are introduced to the theoretical background to these skills and relate this knowledge to its practical application in the classroom. They compare native and non-native oral production and reception, and investigate research into the sub-skills involved, including the field of phonetics and phonology. They explore how language teachers can more effectively teach these sub-skills to L2 students and demonstrate their understanding through short presentations and a written assignment.
Prerequisites: None; Co-requisites: AL01
Credits: 3

TE08CT Practicum – Classroom Teaching
This course is designed for candidates to engage in teaching, observation and reflection in order to broaden their teaching experience. Candidates begin the practicum by first observing experienced cooperating teachers of English Language Learners, and participate in post-lesson discussions. Candidates then teach their own classes which are observed by the cooperating teacher. The cooperating teacher helps the candidate to prepare these lessons and provides constructive feedback in post-lesson discussions. At a later stage in the practicum, both the coordinator of the practicum and the University supervisor will observe the candidate, provide feedback and a summative assessment of the candidate’s performance. A major component of the practicum is the development of strong reflective teaching practices. Both the coordinator of the practicum and the cooperating teacher provide feedback, which helps candidates evaluate their own practice as an ongoing part of their professional development. Candidates create a portfolio during their practicum, which includes detailed lesson plans, samples of teaching materials, students’ work and assessment tasks. They are also expected to write their reflections on the lessons they conducted, and responses to post-lesson discussions.
Prerequisites: AL01
Credits: 3
TE08TW Practicum – Tutoring Writing
The course is designed to provide students with a thorough understanding of the philosophy and practice of the Hellenic American University Writing Center. Throughout the course, students will be exposed to current tutoring practices and models as well as guidelines, techniques and tutoring activities, both onsite and online, that will assist them in dealing effectively with the challenging and rewarding experience of working at a Writing Center. An additional aim of the course is to help students develop their own tutoring skills and strategies and deepen their knowledge about the role of the Writing Center within a university. Each student will be mentored by Writing Center tutors who will observe them tutoring and act as a sounding board for your concerns.
Prerequisites: AL01
Credits: 3

TE11 Teaching English to Learners with Special Needs
Examine the characteristics of learning disabilities, emphasizing language and processing deficits and how they interfere with academic achievement and social relationships. The student will examine assessment and intervention approaches for students with learning disabilities as well as historical and cultural frameworks of the LD community. The course will have an applied element to it, as the student will be encouraged to collect their own data and share with the class in order to develop a deeper understanding of the actual nature of LD and interventions needed.
Prerequisites: AL01
Credits: 3

TE12 Teaching English for Specific Purposes (ESP)
In this practical and interactive course, students will examine the growing field of teaching English for Specific Purposes (ESP). They will learn how to design an ESP course and how to apply principles and practice of teaching ESP in various contexts related to the workplace. Participants will be expected to cooperate in groups and get involved in project work.
Prerequisites: AL01
Credits: 3

TE13 Classroom Assessment and Language Testing
Focuses on the processes involved in the assessment and teaching of English to Speakers of Other Languages (ESOL) in different contexts, including the teaching of English Learners (ELs) in the US state school system. It raises awareness of the relationship between language proficiency and use of English in social, academic and occupational contexts. It provides insights into the use of specific tools for producing, interpreting and reporting reliable and valid data to promote effective teaching and assessment. The course highlights the positive relationship between instruction and assessment.
Prerequisites: AL01
Credits: 3

TE14 TESOL Management
This course is designed for TESOL professionals who have made, or who are planning to make, the transition into management in a language teaching operation and need to gain expertise in key areas of the academic manager’s role. The course provides training and development in clearly defined aspects of management such as customer service, human resources, innovation, marketing and finance. Participants will apply the knowledge they gain to plan an initiative in a language teaching operation (LTO).
Prerequisites: AL01
Credits: 3
MAT Course Descriptions

TR01 Introduction to Translation Studies
Introduces students to the functions of translation in society and to the multiple ways in which translation operates in multilingual and multicultural environments. The course encourages students to understand the importance of translation as an area of study, a social process and a cultural product, and the age-old role translation has played as mediator between societies and cultures. It addresses translational aspects from a problem-focused perspective, dealing with issues such as equivalence, culture, text, humor and the metaphoric use of language. Students are familiarized with key theoretical concepts in translation studies, and they are enabled to critically assess the premises on which various approaches to Translation Studies are based. The issues addressed in this course ultimately guide students towards adopting a critical view of the theoretical underpinnings of translation with the goal of effectively preparing them for the practice of translation.
Prerequisites: None
Credits: 3

TR02 Professional Trends in Translation: Project Management Concentration
This course introduces the students to the translation industry world of industrial translation, the sector that generates the lion’s share of the global translation turnover. Students familiarize themselves with industry requirements, professional trends in LSP and get some first insights to project management for translation. The course introduces processes, practices and concepts applicable to multinational professional settings. A small range of translation exercises in class are used to frame translation as a situated professional activity. Project Management considerations are introduced such as team building, assignment of activities, timing, cost analysis, and work-flow models. Specific concepts that are introduced in the course include: professional identity, translator-client relations, translation quality and norms, translation technology and tools, work flow models and customer acquisition. The aim is to deepen the students understanding of professional standards and practices and to assist them to envision themselves on the translation market in different positions of the production cycle.
Prerequisites: None
Credits: 3

TR03 Introduction to Terminology
Introduces students to the use of terminology analysis and terminology management for the translation of specialized texts. Students begin by distinguishing between LSP and LGP, and are gradually led towards more complex, concept-based categorizations of terms. The course also emphasizes the interrelation between subject-field knowledge and terminology, making reference to the process of term standardization by industry stakeholders. Attention is placed on issues of term synonymy (concepts referred to by two or more terms) and to polysemy/homonymy (where many terms lead to more than one meaning). Terms are treated as vocabulary for special language and students are provided ongoing training in distinguishing between terms and non-terms. The course also prepares students for conducting preliminary terminographical work and gives them the tools to prepare and store their first monolingual and bilingual glossaries. The program also includes an independent project with the Terminology Unit of the European Parliament (TERMCOORD).
Prerequisites: None
Credits: 3

TR04 Translation Principles & Practices / Practical I
Requires students to apply the theoretical approaches to translation to the practice of translation. They are assigned texts from different genres and discourses to be translated into another language. Through the practice of translating, students develop a critical awareness of how the basic principles of translation theory that they have been taught so far can be related to the practice of translating. The aim of the course is to encourage students to tackle real-life translation issues and to use various strategies for handling problems encountered in the process of translating, taking into account the client’s instructions and deadlines.
Prerequisites: None
Credits: 3
TR05 Translation of EU Texts
In this course translation is looked upon as a socio-cultural practice which is carried out for specific purposes, and as a cultural activity which plays a particular role in a cultural system. Emphasis is placed on EU translation and students gain familiarization with the fast-growing and demanding EU translation industry. The role of translators, as well as particular tools used to carry out such translations is foregrounded. The course therefore examines the role of translation in a particular context, that of EU and EU institutions and looks upon the various roles a translator may assume as a mediator between different cultures and ideologies within a given social context. Issues of institutional ideology and ideology in translation are also addressed.
Prerequisites: None
Credits: 3

TR06 Business and Legal Translation
This course will introduce students to translational problems at the level of discourse in specific disciplines and domains. It will focus on features of the linguistic structure above the term and sentence and will consider problems involved in mediating between different genres, activities and practices. Students will analyze and assess business and legal texts in an attempt to relate them to general and specific features of language. Students will be made aware of the way grammatical, semantic and text organizational choices vary per contextual domains and communicative goals, i.e. academic papers, oral speeches, policy papers and news articles. They will also be presented with strategies of successfully handling translational challenges in relation to the purpose of the activity (theory of Skopos). In regards to the practical component, this course will focus on the translation of business, financial, managerial texts inbound and outbound.
Prerequisites: None
Credits: 3

TR07 Literary Translation
Introduces students to all aspects of literary translation, using examples of writing from the 1960s till the present day and well known, as well as very modern, Anglophone and Greek authors. Students will have to translate prose, plays, and poetry from English to Greek and vice versa, touching upon the influences and the historical and socio-political background at the time of the creation of the work examined each week. Therefore, a general overview of the work of each of the writers will be given, followed by a translation of the pieces of writing included in the course syllabus. Moreover, they will be urged to apply the respective translation theories on their translations and pinpoint and discuss translation problems.
Prerequisites: None
Credits: 3

TR08 Translation Principles & Practices / Practical II
Students are asked to apply theoretical approaches to translation to translation practice. They are assigned texts from different genres and discourses to be translated into another language. Through translating, students develop a critical awareness of the possibilities of relating translation theories to the practice of translating and to analyze in depth the linguistic, cultural and societal particularities that characterize a text to be translated. The course encourages students to tackle real-life translation issues and to use various strategies for handling problems encountered in the process of translating, while taking into account the client’s instructions.
Prerequisites: None
Credits: 3

TR09 Computer-Assisted Translation
Introduces students to terminology and LSP (Language for Special Purposes), as well as to terminology management via information technology tools and the Internet. The course also focuses on the key role of developing research skills to enable data retrieval from the World Wide Web. Hands-on sessions give students a chance to learn how to find and use on-line glossaries, on-line dictionaries and parallel texts concerning their language pair. Emphasis is given to students creating their own glossaries, tailored to their needs, (.xls, .doc, .tmw). Students learn how to evaluate websites from internal and external evidence and to choose suitable websites for their work. They are trained on a commercial CAT tool (SDL Trados) to store and retrieve terms and their associated data. Emphasis is given to practice on the TMS so that students understand the possibilities offered by a Translation Memory. They also learn how to set up and populate a termbase (basic functions) and use the memory system in conjunction with a word processor. The ultimate purpose is to enhance students’ technological skills, help them increase productivity, and organize their work more efficiently.
Prerequisites: None
Credits: 3
TR10 Specialized Translation I / Practical III
Introduces students to the various thematic fields within which translators operate and to the different translation contexts and genre-specific features pertaining to Specialized Translation. The course builds upon the theories and practices covered in other courses, and enables students to apply the strategies previously taught to the translation of specialized documents. Students are introduced to the research tools required to effectively address issues of terminology and specialized phraseology. Through practice, they gradually familiarize with the steps of translating specialized texts in a range of different disciplines. Students are provided throughout the course with guided practice in extracting key information and in researching, analyzing and translating specialized texts at a professional level. The thematic structure of this course includes specialized translations from the fields of business, commerce and law.
Prerequisites: None
Credits: 3

TR11 Specialized Translation II / Practical IV
Introduces students to the various thematic fields within which translators operate and to the different translation contexts and genre-specific features pertaining to Specialized Translation. The course builds upon the theories and practices covered in other courses and enables students to apply the strategies taught earlier to the translation of specialized documents. Students are introduced to the research tools required to efficiently use terminology and specialized phraseology. Through practice, they gradually familiarize with the steps necessary for translating specialized texts in different disciplines. Students are provided throughout the course with guided practice in extracting key information, researching, analyzing and translating specialized texts at a professional level. The thematic structure of this course includes specialized translations from the fields of business, technology and sciences.
Prerequisites: None
Credits: 3

TR12 Community Interpreting
Aims at introducing students to Interpreting Studies focusing on community and consecutive interpreting. It examines interpreting through a comparison between translation and interpreting and highlights the interpreter’s role as cultural mediator. Furthermore, the course presents the main characteristics of community interpreting and suggests ways of coping with the oral linguistic barrier. Students will be familiarized with the main theoretical aspects of interpreting studies and their practical application through the extensive use of pre-consecutive and consecutive exercises. The course will ultimately enable students to be maximally aware of the incoming speech and its meaning through a continuous analysis and re-synthesis of the oral message.
Prerequisites: None
Credits: 3

TR13 Audiovisual Translation
Introduces students to all aspects of Audiovisual Translation, focusing on more technical translation modes, such as subtitling and dubbing. More specifically, students learn about the various forms of audiovisual translation – from the subtitling of films, popular TV series and commercial spots to dubbing, voice-over and audio description, as well as the creation of subtitles for the hearing impaired people and how to write screenplays. The focus will be on the specific rules and norms of subtitling and the students will also learn how to analyze the various components of audiovisual materials (speech, sound, text). Moreover, by using subtitle software, they will get acquainted with the strategies used to transfer spoken dialogue into written language subtitles and how subtitling work is done at a professional level.
Prerequisites: None
Credits: 3

TR14 Dissertation
This is a stand-alone course which challenges students to build upon competences acquired during the academic year, enabling them to demonstrate the wide range of theoretical and practical skills they have acquired throughout the program. Students are expected to synthesize practical and theoretical knowledge with a special focus on the topic of their dissertation. Successful completion of this module demands close cooperation between student and supervisor. Good organizational skills coupled with research and planning skills are crucial for successfully completing the dissertation. The dissertation is supervised by an appropriate member of the MAT faculty of Hellenic American University.
Prerequisites: All core and elective courses
Credits: 3
**TR15 Internship**

Students at the Translation Program (MAT) can opt to participate in an internship for a minimum of 240 hours of supervised translation practice in the Newspaper I Kathimerini (web or printed edition) and its translation department. This seminar can be offered to students who have completed all core curriculum requirements. This internship will help students gain more insights as to the professional setting of translation and apply in practice methodologies they have learned throughout their coursework. Depending on the number of students opting for the internship there may be a selection process. To successfully pass this course, students need to complete 240 hours as interns in the newspaper and submit a portfolio of translations carried out during their tenure at the newspaper.

Prerequisites: All core and elective courses  
Credits: 3
MACI Course Descriptions

CI01 Introduction to Interpretation Theory
Provides an introduction to the theoretical premises that underpin interpretation practice. The course provides insight to the differences between translation and interpretation and introduces students to the disciplines involved in interpretation. Topics covered include cognitive science, linguistics, discourse studies, sociolinguistics, and communication. (This is a non-language pair-specific course).
Prerequisites: None
Credits: 3

CI02 Introduction to Interpretation Practice
Provides students with a solid background in the practical framework of interpretation. This module prepares students for the actual practice of interpretation in their respective language pairs by introducing exercises in voice coaching, public speaking, terminology, and resources for interpreters. (This is a non-language pair-specific course).
Prerequisites: None
Credits: 3

CI03 Consecutive Interpretation I
Introduces students to the basic skills involved in handling consecutive interpretation situations. Training will involve various tasks and texts of escalating difficulty in terms of length and level of technicality. Students learn to handle speech up to 3-5 minutes long and are introduced to techniques of note-taking. (This is a language pair-specific course).
Prerequisites: None
Credits: 3

CI04 Summarizing for Interpretation
Offers practical exercise in the practice of summarizing for interpretation purposes. It examines strategies of retrieving useful linguistic information and/or terminology/phraseology from a source utterance with an aim or reconstructing an equal meaning in the target utterance. Texts of professional standards are employed for summarizing purposes. Students are also evaluated on their skills of performing the summarizing task while taking into account parameters such as discourse, context, and register.
Prerequisites: None
Credits: 3

CI05 Oral Speech
Trains students to organize and prepare for public speaking. This course takes the form of an “oral lab”, aiming to prepare future interpreters for public exposure. Exercises include memory retention techniques, practice for achieving fluency in the target language, speech density, specificity and accuracy of terminology and phraseology. Moreover, various common mistakes in public speaking will be discussed and students will practice in grammar and syntax, in order to improve their eloquence and their interpreter’s memory.
Prerequisites: None
Credits: 3

CI07 Consecutive Interpretation II
Builds upon the issues raised and techniques acquired in the Consecutive Interpretation I course. Students exercise the techniques of note-taking, summarization, and memory retention, and are guided to handle more complicated consecutive interpretation situations. (This is a language pair-specific course).
Prerequisites: None
Credits: 3

CI08 Simultaneous Interpretation I
Provides students with a foundational background in simultaneous interpretation situations. The first in a series of three courses, Simultaneous Interpretation I introduces students to sight translation and begins to help them develop techniques which will lead to success in the task of simultaneous interpreting. (This is a language pair-specific course).
Prerequisites: None
Credits: 3
CI09 Consecutive Interpretation III
Builds upon the issues raised and techniques acquired throughout the Consecutive Interpretation II course. More specifically, students master the techniques of note-taking, summarization, and memory retention. The course develops students' self-confidence and equips them to handle consecutive interpretation situations. (This is a language pair-specific course).
Prerequisites: None
Credits: 3

CI10 Simultaneous Interpretation II
Develops techniques and revisits issues to which students were introduced in the Simultaneous Interpretation I course. More specifically, students are trained in booth techniques and team interactions, and they master coordination skills in order to produce fluent and effective speech in the target language. (This is a language pair-specific course).
Prerequisites: None
Credits: 3

CI11 Simultaneous Interpretation III
Builds upon the issues raised and techniques acquired throughout the Simultaneous Interpretation II course. In the third course of the Simultaneous Interpretation series, students are trained to handle various subject areas, styles and registers, and gain experience in working with long and information-rich texts. (This is a language pair-specific course).
Prerequisites: None
Credits: 3

CI13 Dissertation
At the end of the taught part of the course, students will be required to write a 6,000-word dissertation on a topic that will be agreed with their supervisor. Advice and guidance is given in formulating and refining the research topic, conducting research, analyzing data, literature review, and documentation of sources. The dissertation offers students the opportunity to carry out independent research in an area of their interest and to apply the knowledge and the skills they have acquired to the investigation of a particular issue or problem.
Prerequisites: All core and elective courses
Credits: 3

CI15 Internship
Students at the Conference Interpreting program (MACI) can opt to participate in an internship for a minimum of 240 hours of supervised translation practice in the Newspaper I Kathimerini (web or printed edition) and its translation department. This seminar can be offered to students who have completed all core curriculum requirements. This internship will help students gain more insights as to the professional setting of translation and apply in practice methodologies they have learned throughout their coursework. Depending on the number of students opting for the internship there may be a selection process. To successfully pass this course, students need to complete 240 hours as interns in the newspaper and submit a portfolio of translations carried out during their tenure at the newspaper.
Prerequisites: All core and elective courses
Credits: 3

CI16 Introduction to International Organization
The international system abounds with international organizations that shape world politics and international relations. When we think about international relations, we think primarily about the system of sovereign states. Although states have power, both military and economic, international organizations are attracting increasing attention for the ways they affect national decision-making and policies, and people’s lives in general. On many occasions interpreters are required to know what IOs are designed to do, their evolution, structure, and membership so as to accurately reflect the context of what they are called to interpret. In addition, it is the responsibility of interpreters to know the historical context of events that various speakers refer to as part of their presentations.
Prerequisites: None
Credits: 3

CI17 Use of English in EU Interpretation
This course is designed to help students who are native speakers of English or speakers of English as a foreign language practice English language production and delivery best suited for EU interpreters. Rather than teach English grammar and vocabulary, this course is an opportunity for students to utilize their knowledge of English in producing language that is not only fluent and spontaneous overall but consistent with EU speech-making in particular.
Prerequisites: None
Credits: 3
MSPsy Course Descriptions

MSPSY501/CMHC Foundations of Counseling OR Clinical Psychology
Examines the philosophic bases of clinical psychology and the helping relationship focusing on the foundational concepts necessary for working with individuals, groups, and families. Attention is given to the development of professional identity and client relationships.
Prerequisites: None
Credits: 3

MSPSY503/CMHC Social and Cultural Diversity in Counseling OR Clinical Practice
Examines the importance of understanding cultural and ethnic attributes and the dynamics these attributes have on the clinical relationship. Attention is given to gender roles, ethnic groups, subcultures, urban and rural societies, cultural mores, and differing family life patterns.
Prerequisites: None
Credits: 3

MSPSY505/CMHC Ethical, Legal and Professional Issues in Counseling OR Clinical Practice
Equips the entry-level clinician with an understanding of the variety of ethical dilemmas faced in clinical psychology. Students will learn an ethical paradigm with which effective counseling can be practiced. Students will study legal precedents that have been established in the clinical field. This course will stimulate students’ self-awareness of personal, values, and multicultural issues concerning ethical decision making.
Prerequisites: None
Credits: 3

MSPSY510/CMHC Developmental Psychology Across the Lifespan
Provides an overview of developmental psychology from a life-span perspective. Topics include: basic concepts and theories of human development; research methodology and issues in the study of developmental change; biological, environmental and social influences on development; processes of physical development over the life-span; attachment and emotional development; development of personality and social relationships and psychopathology from a developmental perspective.
Prerequisites: None
Credits: 3

MSPSY512/CMHC Psychopathology and Diagnosis
Focuses primarily on Axis I disorders, including unipolar and bipolar disorders, psychotic disorders and anxiety disorders and examines the intersection between Axis I and Axis II disorders. The course emphasizes diagnostic and therapeutic issues at an applied level through research finding, case analyses and clinical material from real cases.
Prerequisites: None
Credits: 3

MSPSY520/CMHC Clinical Interviewing and Consultation
Provides students with the didactic foundation and practical experience to develop basic clinical skills that are vital for clinical interviewing and psychotherapy. Relevant theory and research will be reviewed that will help students learn how to (a) empathically listen to clients’ concerns, (b) conduct a thorough clinical interview, and (c) describe and implement a range of core interventions to ameliorate clients’ presenting problems. Specific clinical skills will be discussed, applied, and practiced throughout the semester. Special emphasis is also placed on learning how to work with clients of diverse backgrounds. Additionally, specialty interviews such as the Mental Status Examination, crisis intervention, and Motivational Interviewing will be studied.
Prerequisites: None
Credits: 3

MSPSY521/CMHC Clinical Assessment Instruments
Gives the student "hands-on", practical training in the process of clinical assessment in the mental health profession. It will include an introduction to the science and art of clinical assessment as a foundation for the actual practice of assessment in a clinical setting. Focus is on the use of assessment techniques, such as interviewing and psychological testing, in a professionally and ethically responsible manner. The course includes an experiential component in which the student will develop beginning skills in the use of clinical assessment techniques. As a graduate level course in clinical assessment, it is assumed that the student is familiar with various conditions of psychological disorders to be assessed and has mastered the content of a graduate level course in psychopathology.
MSPSY522/CMHC Applied Career Counseling & Lifestyle Development
The Course focuses on: Career development theories; current career trends, concerns, and programs/interventions for diverse client populations; career counseling strategies, tools, and resources facilitation of client awareness, choice, and action with respect to career-related issues. Emphasis is on developing a broad view of career as lifestyle, and the practical application of theory and information in a professional counseling context. The course will include experiential exercises in counseling skills and applied interviewing for the purpose of assessing and writing a career counseling report with professional acumen. Students must adhere to the ethical guidelines of the American Psychological Association.
Prerequisites: MSPSY520/CMHC
Credits: 3

MSPSY524/CMHC Cognitive Behavioral Psychotherapy I
This first course in cognitive-behavioral approaches to clinical psychology focuses upon Behavior Therapy. Students will discuss learning theory and develop skills in the basic techniques of assessment and therapy using applied behavior analysis (ABA) for contingency management and the skills of relaxation training and imagery enhancement as part of systematic desensitization procedures and the varieties of exposure therapy.
Prerequisites: None
Credits: 3

MSPSY525/CMHC Cognitive Behavioral Psychotherapy II
In this second course of the cognitive behavioral sequence, students learn cognitive restructuring based theories and techniques of Ellis’ Rational Emotive Behavior Therapy and Beck’s Cognitive Therapy. In this second year course, students have supervised practica in the HAUniv Counseling center where they will work with clients from the HAUniv and/or local communities and apply their skills in cognitive behavioral therapy.
Prerequisite: MSPSY524/CMHC
Credits: 3

MSPSY526/CMHC Cognitive Behavioral Psychotherapy III
The third course of the cognitive behavioral sequence focuses upon “third wave” approaches to therapy such as Dialectical Behavior Therapy, Acceptance and Commitment Therapy, and Mindfulness Meditation. Clinical Psychology students continue with supervised practica in the HAUniv counseling center working with clients from the HAUniv and/or local communities.
Prerequisite: MSPSY525/CMHC
Credits: 3

MSPSY527/CMHC Clinical and Counseling Techniques
The purpose of this course is to build and enhance students’ development of clinical and counseling skills. Through experiential learning practices students will implement core counseling skills followed by a case study and use of self-reflection assignments. Class will function similar to a clinical setting of group supervision processes. The scope of the course is to provide students with the necessary practicum-based development of their clinical and counseling skills such as assessment, empathy, active listening etc. with the aim of preparing and facilitating a competent undertaking of the Internship.
Prerequisites: MSPSY520/CMHC
Credits: 3

MSPSY528/CMHC Couples and Family Counseling
Provides an overview of the theory and practice of family counseling/therapy since its inception. Major systemic theoretical orientations will be explored with a clear emphasis on the cognitive behavioral perspective. An emphasis will be placed on the area of application of family theory to practice through use of videotapes and family treatment planning and simulated clinical sessions. Students will increase skills in critical thinking of assigned reading and self-awareness of the influences in adult life of family-of-origin dynamics. Behavioral couples’ therapy, applied behavior analysis and problem solving models will be practiced in class and applied, when appropriate, during practicum experiences.
Prerequisites: None
Credits: 3

MSPSY529/CMHC Approaches to Group Psychotherapy
An applied course in group dynamics, group counseling, and group counseling and group psychotherapeutic principles and techniques that focus on student participation in various types of group experiences, student understanding of the objectives, rationale, and underlying theory of alternative group models. This course also reviews group counseling and therapy issues related to addictive behaviors.
Prerequisites: None
Credits: 3
MSPSY530/CMHC Counseling for Chemical Dependencies
An overview of etiological and treatment issues regarding substance abuse with an emphasis on alcohol abuse. Different models available to understand and treat substance abuse. Students will learn to conceptualize substance abuse from differing theoretical perspectives and then integrate these models into a biopsychosocial approach to understanding and treating abuse and addiction. Primary skills focus upon assessment and diagnosis of these disorders followed by working with the problems of personal denial and resistance, as well as the family and/occupational difficulties that often accompany these problems. Additional topics include motivational interviewing, treatment planning, and community sources of support.
Prerequisites: None
Credits: 3

MSPSY540/CMHC Statistics and Hypothesis Testing
This foundation course, covers topics such as exploratory data analysis, sampling and probability theory, statistical inference for hypothesis testing for one and two samples, ANOVA, correlation and power.
Prerequisites: None
Credits: 3

MSPSY541/CMHC Research Methodology and Evaluation
In this survey course students learn the basic methodology of empirical research. Topics include types of variables and research design, procedures, instrumentation and other forms of data collection. Methods applied to program evaluation are also discussed. Masters’ candidates are expected to generate properly written research proposals, according to American Psychological Association standards, which will result in an actual study as the basis for a final thesis project.
Prerequisites: MSPSY540
Credits: 3

MSPSY542/CMHC Thesis Research and Completion
Following the successful completion of PSY 541, masters’ candidates will carry out research projects based upon the proposal generated in that class. Data are to be collected and analyzed using proper methods. To successfully complete the course, the masters’ candidate will present a fully written publication manuscript, containing all article sections, as specified by the Publication Manual of the American Psychological Association. When this work is found satisfactory to the faculty of the MSPsy program then the candidate is acknowledged to have completed this graduation requirement.
Prerequisites: MSPSY541
Credits: 3

MSPSY550/CMHC Internship Seminar I - Community Placement
Clinical Psychology candidates are required to participate in an internship for a minimum of 600 hours of supervised counseling practice in an agency or similar community based setting. This seminar will accompany the internship placement where professional issues such as topics of institutional change, structure, supervision, etc. may be addressed.
Under the guidance of the clinical site supervisor, the candidate will apply clinical theory to practice and use appropriate clinical techniques. Candidates are expected to follow APA ethical guidelines. Typically, students will serve as interns for a minimum of 9-12 months to acquire sufficient time to fulfill this internship requirement. This requirement will be completed by taking MSPsy551 in sequence following the completion of this course. All placements are to be approved by the director of the Clinical Psychology program.
Prerequisites: All foundation and core requirements and permission of the program director
Credits: 3

MSPsy551/CMHC Internship Seminar II - Completion
This class is a continuation of the required internship for Clinical Psychology candidates as specified in course MSPsy550. Interns must serve a minimum of 600 hours of supervised counseling practice in an agency or similar community based setting. This seminar will accompany the internship placement where professional issues such as topics of institutional change, structure, supervision, etc. may be addressed.
Prerequisites: MSPSY550/CMHC
Credits: 3
MS in Psychology candidates may select this course as an elective in order to participate in additional internship hours in order to obtain further clinical experience. This internship experience permits an additional 300 hours of supervised counseling practice in an agency or similar community based setting. Under the guidance of the clinical site supervisor, the candidate will apply clinical theory to practice and use appropriate clinical techniques. Candidates are expected to follow APA ethical guidelines. This course is available to candidates who have completed the sequence of courses, MSPsy550 and MSPsy551 or Special Permission by program director.

**Prerequisites:** MSPSY551/CMHC

**Credits:** 3

**MSPSY553/CMHC Internship Seminar IV & Personal Development**

MS in Psychology candidates may select this course in order to participate in additional internship hours in order to obtain further clinical experience. This internship experience permits an additional 300 hours of supervised counseling practice in an agency or similar community based setting. Under the guidance of the clinical site supervisor, the candidate will apply clinical theory to practice and use appropriate clinical techniques. Candidates are expected to follow APA ethical guidelines. This course is available to candidates who have completed the sequence of courses, MSPsy550 to MSPsy552. All placements are to be approved by the Director of Psychology Programs.

**Prerequisites:** MSPSY552/CMHC

**Credits:** 3
Ph.D. AL Course Descriptions

DAL01 Quantitative Research Methods
Supports Ph.D. students in meeting the diverse challenges of planning and executing quantitative research in Applied Linguistics. The course provides an introduction to relevant research methods and statistical concepts and establishes potential connections with action research and other projects that students are developing for the Ph.D. thesis. The course provides examples of research plans, instruments, and data, and provides hands-on practice to develop students’ abilities to use SPSS for statistics. Students also learn to write up findings of quantitative analyses in formal academic style.
Prerequisites: None
Credits: 3

DAL02 Qualitative Research Methods
The course introduces students to the principles and practices of qualitative research and their application to research problems in applied linguistics. It pursues two aims: (1) to develop students’ ability to critically appraise reports of qualitative research, and (2) to prepare students to conduct a qualitative study on an applied linguistic topic, or to further develop a study that is already under way. In order to meet both of these goals, the course places particular emphasis on how to coherently transform theory into research method. Topics to be addressed include research ethics and quality, ethnography, observation, interviewing, and analysis of talk, text, and visual data. Course requirements will include reading and discussion of methodological texts, reviews of reports on qualitative studies, and practical activities.
Prerequisites: None
Credits: 3

DAL03 Discourse as Data
From Analyzing Discourse to Writing up the Analysis: This course pursues three goals: 1. to foster students’ critical understanding of discourse analysis as a central, interdisciplinary approach in the social sciences; of its diverse disciplinary origins, theoretical orientations, methodological options, and relationship to historical and current intellectual paradigms; 2. To provide participants with practical experience in conducting discourse analysis, including data collection, transcription, analysis, and preparing a research report; and, 3. To explore discourse analysis as an approach to diverse research problems in applied linguistics.
Prerequisites: None
Credits: 3

DAL04 Critical Applied Linguistics
This course will address and examine the notion of ‘critique’, define it as a particular form of analysis - a methodology therefore - and show how it can be deployed to develop anti-hegemonic accounts of current sociopolitical phenomena and processes. We will focus on the creative, ‘unthinking’ aspect of critique, on the aspect of epistemic solidarity, the need to take no single established framework for granted, and the demand for adequacy in establishing the facts of our cases. The points of departure, technically, will be (a) ethnography, (b) narrative analysis and (c) linguistic landscaping, and each time we shall attempt to reconstruct - or restore - voices ‘from below’. The fields of deployment are (i) informal learning processes; (ii) asylum seekers’ narratives and (iii) contemporary ‘superdiverse’ linguistic landscapes.
Prerequisites: None
Credits: 3

DAL05 Communication Across Cultures
This two-week core course provides a theoretical and methodological framework for studying the relation of language and culture in cross-cultural communication. The course addresses issues of communication as discourse and interrogates on the role of discourse as connection and narrative. Furthermore, the course looks into culture as historicity and subjectivity, imagined community, social identity, identification, memory, and asks how culture is produced and reproduced through discourse. Issues of Social and cultural capital, affiliation, inheritance, expertise; schemas, frames, metapragmatic models are contributing to the formulation of a clear understanding of discourse.
Prerequisites: None
Credits: 3
DAL06 Different Perspectives on Discourse Analysis
Increasingly, discourse studies play a role in the research program of a number of fields, including applied linguistics. However, not only is there no overarching theory common to all discourse studies, but due to the complexity of situated language use, a wide variety of methods exist to analyze the structure and functions of discourse. The purpose of this course is to provide students with a basic understanding of a few of the major perspectives of discourse analysis. Through lectures and working with real data, students will both learn what assumptions underlie a perspective as well as experience first-hand the task of collecting data and drawing conclusions. While not covering all perspectives, the course is intended to provide students with a sound foundation for future work in this area.
Prerequisites: None
Credits: 3

DAL07 Text-Discourse-Genre
This course unit will explore how texts of different kinds, mono- and multi-modal, are constructed in the context of particular domains and sites of communicative use; how they evidence the conventions of particular genres; and how, as discourses, they reflect and serve to underscore the personal, ideological and social purposes of their author(s). Domains and sites to be chosen will depend on the interests of participants, but will include both educational and professional fields, and will take into account the conditions of production and reception of such texts.
Prerequisites: None
Credits: 3

DAL08 Applied Linguistics Research Seminar (with introduction to the 3 strands)
This course gives an overview of the most important issues in mainstream applied linguistics research. It casts a critical glance at the seven previously offered core courses, guiding students towards formulating tentative plans for their research orientation in the future. The course also introduces students to the three strands supported by discipline-specific seminars: Second Language Education (SLE)/Intercultural and Professional Communication (IPC)/Translation and Interpreting (TI).
Prerequisites: None
Credits: 3

SLE1 Current Issues in Second Language Education (SLE)
Examines various methodologies, both current and historical, used in the teaching of English as a Second Language. It provides an understanding of the principles underlying current teaching practices and raises awareness of the range of methodological options available to language teachers. The course considers the value of teaching methods in language teacher education, taking into consideration the current “post-method” condition of TESOL theory. It also introduces the notion of teacher research and action research, providing opportunities for further inquiry in TESOL and teacher education.
Prerequisites: DAL01-DAL08
Credits: 3

SLE2 Current Issues in Assessment in SLE
Provides an introduction to the fundamental principles of the construction of language assessments in the context of language programs. The course examines how assessments are designed, developed, administered, and scored. It also looks at the collection and analysis of quantitative data used to provide evidence in support of validity claims. This course is both theoretical and practical in nature, enabling students to pursue their interests in testing research and development.
Prerequisites: SLE1 & DAL01-DAL08
Credits: 3

SLE3 Designing Dissertation Proposals: Criticizing Published Research (for SLE)
Provides an overview of research methods in Applied Linguistics and explores key issues in designing and implementing research projects. In this course, students cultivate a critical stance towards published research monographs and articles as they prepare to make their own research contributions. Students learn to identify appropriate qualitative and quantitative research methods when addressing particular questions in applied linguistics research. Students are introduced to possible Ph.D. research topics and explore the relevant methods, applications, and implications of this research. This course provides guidance to students in the SLE strand for the formulation of their qualifying papers and dissertation proposals.
Prerequisites: SLE2 & DAL 01-DAL08
Credits 3
IPC1 Current Issues in Intercultural and Professional Communication (IPC)
The course provides a differentiated understanding of intercultural communication and professional discourse in contemporary professional settings. It examines: i) different approaches to intercultural communication and professional discourse, Linguistic anthropology, Cross-cultural social psychology, Ethnography of speaking, Intercultural Pragmatics, Interactional sociolinguistics, Cultural/Gender Studies, (Management) Communication, Corpus based approaches, ii) the communicative settings that have been explored so far and the types of data and methodologies deployed to do so , iii) the distinction between cross-cultural and intercultural communication and its relevance in contemporary professional contexts resulting from globalization and aided by the widespread use of new media (i.e. ICTs). Drawing on data from empirical studies into various cultures the course addresses the extent to which interculturality is made relevant in encounters between different cultures, the degree to which professional cultural expertise is claimed by non-members of the culture and the way in which presumed cultural experts enact cultural membership in professional settings.
Prerequisites: DAL01-DAL08
Credits: 3

IPC2 Intercultural Communication & Professional Discourse
This course unit will focus on how communication among and between cultures impacts on how professional discourse is produced and understood by participants in interaction. “Culture” is understood here to imply diversity in terms of ethnicity and in terms of workplace organization. Themes explored in the course will include: issues of identity and membership; rapport management in interaction; interpersonal attitudes and beliefs; impression management; professional expertise as an intercultural achievement; misunderstandings; trust as a core value; the evaluation of intercultural competence. Sites focused on in the course unit will depend on participant interests but may include inter alia those of business and management studies, education, public policy, personnel management, health and social care.
Prerequisites: IPC1&DAL01-DAL08
Credits: 3

IPC3 Designing Dissertation Proposals
Criticizing Published Research (for IPC): Provides an overview of research methods in Applied Linguistics and explores key issues in designing and implementing research projects. In this course, students cultivate a critical stance towards published research monographs and articles as they prepare to make their own research contributions. Students learn to identify appropriate qualitative and quantitative research methods when addressing particular questions in applied linguistics research. Students are introduced to possible Ph.D. research topics and explore the relevant methods, applications, and implications of this research. This course provides guidance to students in the IPC strand for the formulation of their qualifying papers and dissertation proposals.
Prerequisites: IPC1 & IPC2, DAL01-DAL08
Credits: 3

TII Current Issues in Translation and Interpretation
This course will begin with an overview of the development of translation and interpreting studies. It will then explore key areas such as equivalence in meaning, translation strategies and procedures, genre and text type, and the features of translated language. A special focus will be on discussing problems of applying English-based discourse and text analysis models to the analysis of multilingual communication. The latter part of the course will look at the socio-cultural context of translation and interpreting and the way in which they are part of a power play which may lead to ideological distortion in a text and/or the suppression of the discourse of lesser-used languages. Particular attention will be paid to the role of the translator/interpreter as an interested intervener (e.g. in scenarios ranging from local healthcare interpreting to interpreting in conflict zones to conference interpreting for international organizations) rather than as a transparent conduit of information. Consideration will also be given to the impact of new modes of translation (audiovisual translation, machine translation, crowd sourced translation, manga scanlation, etc.). Under the guidance of the tutor, students will be expected to gather their own examples of translation and to develop a specific project throughout the course.
Prerequisites: DAL01-DAL08
Credits: 3
**TI12 Translation-Cognition-Technology**
This course touches on the relationship of cognition with translation and interpretation competence. It focuses on the process of translating and looks at the so-called “black box” i.e. the Translator’s/Interpreter’s mind. Emphasis is placed on analyzing how translation and interpreting stages can be isolated, how translator and interpreter competence can be analyzed. Also, the course addresses issues of technology, machine translation and terminology for translation purposes.
Prerequisites: TI1 & DAL01-DAL08  
Credits: 3

**TI3 Designing Dissertation Proposals**
Criticizing Published Research (for TI): Provides an overview of research methods in Applied Linguistics and explores key issues in designing and implementing research projects. In this course, students cultivate a critical stance towards published research monographs and articles as they prepare to make their own research contributions. Students learn to identify appropriate qualitative and quantitative research methods when addressing particular questions in applied linguistics research. Students are introduced to possible Ph.D. research topics and explore the relevant methods, applications, and implications of this research. This course provides guidance to students in the IPC strand for the formulation of their dissertation proposals.
Prerequisites: TI1 & TI2, DAL01-DAL08  
Credits: 3

**DAL61 Program Ph.D. AL Dissertation**
At the end of the taught part of the course, students will be required to write a dissertation on a topic that will be agreed with their supervisor. Advice and guidance is given in formulating and refining the research topic, conducting research, analyzing data, literature review, and documentation of sources. The dissertation offers students the opportunity to carry out independent research in an area of their interest, and to apply the knowledge and the skills they have acquired to the investigation of a particular issue or problem.
Credits: 12

**PG Ph.D. Project Papers (7 Credits / 1 Course)**
DAL41 PROJECT PAPER 1  Credit: 1  
DAL42 PROJECT PAPER 2  Credit: 1  
DAL43 PROJECT PAPER 3  Credit: 1  
DAL44 PROJECT PAPER 4  Credit: 1  
DAL45 PROJECT PAPER 5  Credit: 1  
DAL46 PROJECT PAPER 6  Credit: 1  
DAL47 PROJECT PAPER 7  Credit: 1

**PG Ph.D. Qualifying Papers (6 Credits / 1 Course)**
DAL51 QUALIFYING PAPER I  Credits: 3  
DAL52 QUALIFYING PAPER II  Credits: 3

**PG Ph.D. DISSERTATION (12 Credits / 1 Course)**
DAL61 DISSERTATION  Credits: 12
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