COURSE DESCRIPTIONS

In 3(3-0) below for example, the first figure is the number of credits. The figures in brackets indicate the number of contact hours and the lab sessions respectively.

■ ACCOUNTING (ACC)

ACC 2301 Accounting Principles I: 3(3-0)

Pre-requisite: MTH 1300, MTH 1303, or MTH 1304

This course is an introduction to the fundamental concepts of accounting, double entry accounting theory, recording procedures, worksheet techniques and financial statements preparation.

ACC 2302 Accounting Principles II: 3(3-0)

Pre-requisite: ACC 2301

Basic cost relationships, product costs, financial accounting, cost of products for managerial decision-making, forecasting, budgeting and tactical decisions: capital budgeting, service department allocations and responsibility accounting.

ACC 3399 Special Topics in Accounting: 3(3-0)

Pre-requisite: Junior Standing

Specially scheduled readings on significant issues or topics relevant to the study of accounting and/ or taxation.

ACC 4305 Comparative Accounting Systems: 3(3-0)

Pre-requisites: ECO 3301 and FIN 3301

This course provides students the opportunity to learn about the diverse financial reporting practices from around the world and the reasons behind that diversity across countries. The course also provides a framework for examining the major issues in international financial reporting and also a study of International Financial Reporting Standards (IFRS).

■ ACADEMIC LISTENING AND SPEAKING (ALS)

Placement based on TOEFL total scores and subscores.

ALS 1001 Academic Listening, Speaking, and Note Taking I: 0(2-3)

Academic Listening and Speaking 1001 (ALS 1001) is a 75-hour learner-centered course. It introduces students at a basic level to the major components of oral and aural academic discourse. In this level, students understand a lecture and analyze its components, use effective and various note-taking methods, participate in discussions and in-class dialogues, and give quality informative presentations.

ALS students are required to participate in English Conversation Group sessions—a cross-level activity—and complete additional out-of-class level-specific activities such as weekly listening logs and online interactivities.

ALS 1002 Academic Listening, Speaking, and Note Taking II: 0(2-3)

Academic Listening and Speaking 1002 (ALS 1002) is a 75-hour learner-centered course at an intermediate to high-intermediate level. Students continue to develop their academic listening, speaking and note-taking skills and handle long, fast-paced technical lectures after a one-time listening. In addition, they learn the principles of effective note-taking, and build fluency and accuracy through discussions, debates, and individual persuasive presentations.

ALS students are required to participate in English Conversation Group sessions—a cross-level activity—and complete additional out-of-class level-specific activities such as weekly listening logs and online interactivities.

ALS 1003 Academic Listening, Speaking, and Note Taking III: 0(2-3)

Academic Listening and Speaking 1003 (ALS 1003) is a 112-hour learner-centered course at a low to high-intermediate level. Students develop their academic listening, speaking and note-taking skills. ALS 1003 is a combination of ALS 1001 and ALS 1002 regarding Listening, Speaking and Note taking.

ALS students are required to participate in English Conversation Group sessions—a cross-level activity—and complete additional out-of-class level-specific activities such as weekly listening logs and online interactivities.

■ ARABIC (ARA/ARB)

Courses Designed for Non-Native Speakers of Arabic (ARA)

ARA 1300: Moroccan Colloquial Arabic: 3(3-0)

This course introduces non-native students to structures in Moroccan Arabic necessary for everyday interaction with native speakers. This course may not be used to satisfy the undergraduate core curriculum requirements in Arabic.

ARA 1311/1411: Beginning Arabic I: 3(3-0)

Designed for beginners, this course focuses on the speaking and writing skills, teaching the mechanics of writing in the Arabic script. Students will practice and learn Arabic sounds, paying particular attention to the differences between al-Fusha and other Arabic varieties (Moroccan Arabic in

particular). By the end of this course, students will be able to communicate effectively in writing and in speech on personal topics and topics of everyday life.

ARA 1312/1412: Beginning Arabic II: **3(3-0)**

This course builds upon the foundation set by ARA 1311/ 1411. The course enhances students' writing in Arabic and enriches their style through spelling, vocabulary and grammar drills and exercises.

ARA 2311: Intermediate Arabic I: **3(3-0)**

In Intermediate Arabic I, students will consolidate their writing and speaking abilities in terms of vocabulary, grammar and style. The course enables students to express themselves with some degree of sophistication.

ARA 2312: Intermediate Arabic II: **3(3-0)**

This course develops the four language skills: Listening, reading, speaking, and writing. The course also provides students with the necessary vocabulary to be able to communicate effectively in most situations.

ARA 3311: Advanced Arabic I: **3(3-0)**

This course develops further students' listening and speaking skills. It also introduces them to the study of Arabic and Islamic culture. The course is designed to provide students with the necessary tools to be able to interact with native speakers without difficulty.

ARA 3312: Advanced Arabic II: **3(3-0)**

The course covers all aspects of language use. It trains students in all skills at a level that would allow them to interact with native speakers fluently. In this course, students will obtain an understanding of Arabic culture to be able to function effectively and appropriately in the Arab and Muslim world.

ARA 4311/ARA 4611: Journalistic and Literary Arabic: **3(3-0)**

This course is designed for students who have studied at an advanced level for at least two semesters. It emphasizes development of skills in reading, writing, listening and speaking through the use of authentic journalistic literary materials and guest lectures.

ARA 4312: Arabic for Business: **3(3-0)**

This course is designed for students who studied Arabic for at least three years, It aims to increase their vocabulary in business Arabic and make them interact and understand the world of business through texts and situations.

ARA 4399: Special Topics in Arabic: 3(3-0)

Specially scheduled courses on significant topics relevant to the study of Arabic..

Courses Designed for Native Speakers of Arabic (ARB)

ARB 1303 Basic Standard Arabic Skills I: 3(3-0)

This course is for Arab students who speak one of the Arabic dialects, but have never studied Modern Standard Arabic. This course focuses on teaching the basic skills of reading, writing, listening and speaking in Arabic.

ARB 1304 Basic Standard Arabic Skills II: 3(3-0)

This course if for Arab students who have successfully finished the course ARB 1303 or the ones whose results in the placement test allows them to take ARB1304. This course focuses on developing the students' skills in reading, writing, listening and speaking in Modern Standard Arabic. At the end of this course the students are able to read and understand short texts from newspapers, to write compositions in Arabic, and to comment on ideas in good Arabic.

ARB 1309 Arabic for General Purposes: 3(3-0)

In this course, students will be trained to use words, structures and expressions effectively. Special emphasis is placed on the characteristics of Arabic sentence structure. This will enable students to distinguish grammatical from ungrammatical usage both in writing and speaking. The main objective is to bring the student up to the level where they may be able to appreciate fully the subtleties of the Arabic language.

ARB 1310 Arabic for Academic Purposes: 3(3-0)

This course reviews the grammar, structures and expressions learned by students in high school. The course aims to train students to use this knowledge effectively and correctly in listening, reading, speaking, and writing in different communicative contexts.

ARB 1320 Arabic for Communication Purposes: 3(3-0)

This advanced course focuses on all aspects of oral and written communication. It has three components: a). review of the basic rules of mechanics and grammar; b) use of selected texts to practice reading aloud, remedy speech errors, and develop comprehension and appreciation; c) practice writing in response to topic assignments. The course also provides students with the skills of interpersonal, group and public communication and debate, and develops awareness of the importance of linguistic variations between the colloquial and the formal in various Arabic countries.

ARB 2301 Arabic Translation: **3(3-0)**

Students' ability to translate from English and French (depending on the instructor) into Arabic are developed. The translated texts will cover different fields of discourse, but emphasis will be placed on scientific and technical terminology.

ARB 2302 Arabic through the Mass Media: **3(3-0)**

Students' oral and written Arabic is improved through the study of journalistic models of reporting. Written texts and audio and video materials will be used as basis for discussion and exercises. Professionals may be invited to talk to students about what it takes to use Arabic in the mass media.

ARB 2303 Scientific and Professional Arabic: **3(3-0)**

It prepares students for the use of Arabic in scientific and business careers and to enrich their scientific lexicon in Arabic. Emphasis will be placed on comprehension, vocabulary building and technical texts.

ARB 2304 Introduction to Arabic Literature (same as LIT 2304):   **3(3-0)**

The aim of this course, taught in Arabic, is to promote the knowledge of different literary genres and to enable students to differentiate between them and to appreciate beauty in a literary work of art. Literary concepts will be introduced to students and followed by reading, analysis, and discussion of works drawn from various genres.

ARB 2305 Introduction to World Literature in Arabic: **3(3-0)**

Same as LIT 2035, equivalent to LIT 2301

This course, taught in Arabic, gives students a broad introduction to world literature. It introduces them to different trends in various parts of the world. The texts are either written in Arabic or translated into Arabic from other languages. In addition to their literary and aesthetic value, this collection of texts belongs to a variety of literary genres and is written by authors of diverse nationalities.

ARB 3301 Writing for the Professions in Arabic   **3(3-0)**

Pre-requisite: Junior Classification

Advanced writing for industry, administration, and the corporate world. It emphasizes proposals, technical reports and position papers and includes the usual protocols for inter-office memos and letters. The course will also examine conventions of politeness using electronic media.

■ ACADEMIC READING (ARD)

Academic Reading adopts a learned-centered communicative approach, and ranges from expanding the students' word stock and developing their critical reading strategies to reacting to reading material both orally and in writing.

Admission to the 3 levels of this course listed below is based on the TOEFL total scores & subscores.

ARD 1001 Academic Reading   **0(4-1)**

This course is a 75-hour intensive reading course designed for students with a **TOEFL score between 420 and 447.**

ARD 1002 Academic Reading II   **0(4-1)**

This is a 75-hour intensive reading course designed for students who have successfully completed ARD1001 course or, if newly admitted, have a minimum TOEFL score between 480 and 527. Students with this score will take anywhere from 10 to 20 hours per week of either level 2 courses or a combination of level 1 and level 2 courses depending on the TOEFL's subscores.

ARD 1003 Academic Reading III   **0(4-1)**

This course is a 112-hour course spanning over one semester and designed for students with a TOEFL score between 450 and 477.

■ ACADEMIC WRITING (AWT)

Placement for the "Institutional TOEFL"is based on total score and/or Writing Placement Test or total score & writing subscores for the "IBT."

AWT 1001 Academic Writing I: **0(4-1)**

This course is a 75-contact-hour course, which focuses on the four basic sentence types in English. The course also introduces the students to paragraph writing, using three rhetorical patterns: narrative, process analysis and definition. AWT 1001 teaches writing as a process, using a communicative and a learner-centered approach.

AWT 1002 Academic Writing II: **0(4-1)**

This course is a 75-contact-hour course. It reviews paragraph writing and focuses on the essay, using four rhetorical patterns: classification or process, comparison/ contrast, cause/effect, and argumentation. AWT 1002 teaches writing as a process, using a communicative and a learner-centered approach.

AWT 1003 Academic Writing III: 0(4-1)

Super Intensive Academic Writing 1003 is a 112-contact-hour course in one semester, which teaches writing starting at the level of the sentence, moving to the paragraph, and ending with the essay. AWT 1003 exposes students to a variety of rhetorical patterns, both at the paragraph level (narrative, process, and definition) and at the essay level (classification or process, comparison/ contrast, cause/effect, and argumentation). AWT1003 actively engages students in process writing using a communicative and learner-centered approach

■ **BERBER (BER)**

BRB 1301 Beginning Berber I: 3(1-2)

The course is intended for beginners and aims to introduce students to the basic formal elements (phonology, morphology and syntax) of Middle Atlas Tamazight, as well as to the socio-cultural components needed to function in basic interaction with native speakers of the language. For this end, the course emphasizes communication as a main aim. Students will also be trained on using Tifinagh (one among the other scripts used to write the language).

BRB 1302 Beginning Berber II: 3(1-2)

Prerequisite: BRB 1301 or instructor's consent

The course is offered to students who have completed BRB 1301 or who are able to demonstrate a competence in the language equal to that of students who have completed the course. Its aims at reinforcing formal aspects of Tamazight (phonology, morphology, and syntax) introduced in BRB 1301, introducing further aspects of Tamazight culture with specific reference to values and norms, history, and contemporary issues, and also contributing to the development of the students' ability to communicate effectively in Tamazight.

■ **BIOLOGY (BIO)**

BIO 1401 Principles of Biology: 4(3-2)

This course is designed to serve students from all majors. It requires no pre-requisite.

An introduction to the basic concepts of living organisms: the cell, metabolic activities, reproduction and genetics, DNA, and an introduction to molecular biology. All living organisms are collection of the same types of molecules. A two-hour laboratory supports the lecture material.

BIO 1402 Environmental Biology: **4(3-2)**

This course is designed to serve students from all majors. It requires no pre-requisite.

A study of molecular genetics and the diversity of structure and function in living forms. Special attention is paid to the ecological, behavioral and environmental relationships of living creatures in the modern world. A two-hour laboratory supports the lecture material.

BIO 3301 Bio-Organic Chemistry: **3(3-0)**

Pre-requisite: Two semesters of college chemistry

This course provides a foundation in structural organic chemistry, acid base chemistry, chemical thermodynamics, and reaction mechanisms. Subjects include Lewis structures, atomic and hybridized orbitals, stereochemistry, inter- and intra-molecular forces of attraction, neucleophilic reaction mechanisms, functional groups, and the organic chemistry of biological molecules. Please note that this course does not count toward requirements for the master's degree in biotechnology.

BIO 4301 Bioscience for Regulatory Affairs: **3(3-0)**

This course examines the fundamental underlying scientific concepts utilized in the creation and development of biomedical products. Topics to be covered include the structure and function of bio-molecules such as proteins, enzymes, carbohydrates, lipids, and DNA, as well as the structure and function of cellular components such as membranes, vesicles, organelles, and the cytoskeleton. In addition, students will examine the complexities of metabolism, DNA replication, transcription, translation, signal transduction mechanisms, apoptosis, the cell cycle, and cancer.

■ CHEMISTRY (CHE)

CHE 1400 Chemistry and the Environment: **4(3-2)**

This is an introduction to the basic principles of chemistry, with emphasis on applications in contemporary societies, particularly those applications involving the environment (energy, water, polymers, pollution, etc.) and health (food, food reduction, drugs, etc.). A two-hour laboratory supports the lecture material.

CHE 1401 General Chemistry I: **4(3-2)**

Pre-requisite: One year of secondary/high school chemistry

Fundamentals of atomic structure, chemical bonding, the periodic table, nomenclature, kinetic theory, gas laws, chemical equations and solutions. A two-hour laboratory supports the lecture material.

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CHE 1402 General Chemistry II: 4(3-2)

Pre-requisite: CHE 1401

Substances (states of matter and changes among them, physical properties of solutions and colloids) and the factors that determine the outcome of chemical reactions (thermodynamics, equilibria, electrochemistry, and kinetics). A two-hour laboratory supports the lecture material.

■ **COMMUNICATION (COM)**

COM 1301 Communication through Speaking: 3(3-0)

Pre-requisite: ENG 1301

The focus of the course is to develop public speaking and group discussion skills. Students will engage in a number of public speaking activities designed to promote competency in the delivery of speeches, organization of ideas, methods of argumentation, utilization of supporting materials, selection of language, and use of narratives. Students will work in small groups and teams to do research, presentations, interviews and interactive role plays.

COM 1302 Introduction to Mass Communication: 3(3-0)

Pre-requisite: ENG 1301

The course surveys the history, structure and influence of different mass media, including newspapers, magazines, radio, television, motion pictures, book publishing, the Internet, and satellite communication as mass media industries and producers of culture. Topics will include persuasion and influence in news, media ethics, the public relations industry, advertising, the effects of heavy exposure to media, the use of media to control social groups, and the future of media. The course also promotes media literacy by developing students' skills in analysis and critical thinking about the mass media. Students are required to carry out research projects on media analysis.

COM 2301 Professional Communication: 3(3-0)

Pre-requisite: COM 1301

The course presents basic theories and strategies of communication as they relate to professional work contexts such as: interpersonal communication, professional presentations, organization of groups and meetings, and conducting interviews.

Students will practice these skills through presentations and role plays. They will also learn to compose basic written forms of communication essential for the professional environment (emails, memos, cover letters, and résumés).

COM 2303 International Communication: 3(3-0)

Pre-requisite: COM 1302

The course examines the major issues in international communication through analyses of international news and information flows, media imports/exports, privatization and globalization within communications industries, the various models of global media systems, and communication as a human right. Students will evaluate the social and economic impacts of technological developments, the shifting relationships between developed and developing countries, and the socio-economic trends associated with transnationalization of media. This course explores concepts such as nationalism, regionalism, globalization, and cultural identity.

COM 2304 Introduction to Video and Film Production: 3(3-0)

Pre-requisite: COM 1302

This hands-on course introduces basic techniques of video and film production. In addition to learning about video and film and its applications as a medium of communication, students will learn basic video camera operation and will develop skills in lighting, editing and sound acquisition. Students will create their own final non-sync projects.

COM 2320 Communication Theories: 3(3-0)

Pre-requisite: COM 1302 (same as COM 3320 in former catalogs)

This course focuses on the major approaches to theory development and the leading theories in the discipline of communication, with an attempt to connect these theories to the students' experiences. The course will draw upon various perspectives: psychological (cognitive and behaviorist), philosophical, linguistic, and sociological. The course will also focus on genres of theories and on the theory/research connection to see how theories are applied.

COM 2326 Visual Communication: 3(3-0)

Pre-requisite: COM 1302 (same as COM 3326 in former catalogs)

This course about the aesthetics and production aspects of visual communication is designed to help students develop competence in reading and interpreting visual images. The course examines technical and stylistic aspects of the media through which we experience the world and analyzes ways of understanding visual images in a variety of contexts including print, motion pictures, still photography, graphic design, television and video, computers and the World Wide Web. The focus is on media stylistic conventions, the functions of visual images and the intercultural and cross-cultural implications of visual communication, and the contribution of visual images to the promotion of culture.

COM 2425 Print and Online Production Skills: 4(4-0)

Pre-requisite: COM 1302 (same as COM 3425 in former catalogs)

Technical Communication is the process of creating, designing and transmitting information with the goal of bridging the space between an expert idea and its implementation. Students learn to conduct research for technical communication. They also learn to plan, develop and deliver forms, proposals, reports, as well as definitions, specifications, instructions and procedures. Visual information design is emphasized. Students become familiar with usability testing and learn about the ethical challenges specific to the field. Concepts are applied. Collaborative and individual work is geared to the production of technical communication products. Support for production is enabled by a weekly 2-hour lab where students learn relevant Adobe CS3 desktop computer applications such as Dreamweaver, Photoshop, Adobe Professional and InDesign.

COM 3301 Public Relations Communication: 3(3-0)

Pre-requisites: COM 1302, Junior Classification, COM 2301

The course will cover the principles, history, theory and practice of public relations in business, organizations and agencies. The course will use case-method and campaign-planning approaches to analyze public relations programs. The course will also examine the responsibility of the public relations practitioner to management and to relevant publics, ethics of public relations practice, and the future of the field and career opportunities.

COM 3310 Promotional Communication: 3(3-0)

Pre-requisites: COM 1302, Junior Classification, COM 2301

This course introduces students to the practical aspects of material production for commercial and non-commercial uses in advertising, marketing communication, public relations, and social marketing. Students will be exposed to the principles of the advertising plan, the design and implementation of sales promotion strategies, direct-mail advertising, and out-door advertising. Special emphasis is put on the design of print and audio visual promotional messages. Students are required to participate in a variety of communication activities and to perform a number of research tasks and practical assignments.

COM 3321 Mass Media and Society: 3(3-0)

Pre-requisites: COM 1302, Junior Classification

The course examines the role and function of the media within society. Emphasis will be given to how mass media impacts social change. Other topics include media law and regulations.

COM 3322 Writing for the Media in English: 3(3-0)

Pre-requisites: Junior Classification, ENG 1301, COM 1302

The following types of writing may be covered in this course: hard news, features, script writing; writing for television, video and the web; and writing for advertising and promotional purposes.

COM 3323 Writing for the Media in French: 3(3-0)

Pre-requisites: Junior Classification, COM 1302, FRN 3310 or equivalent

The following types of writing may be covered in this course: hard news, features, script writing; writing for television, video and the web; and writing for advertising and promotional purposes.

COM 3324 Writing for the Media in Arabic: 3(3-0)

Pre-requisites: Junior Classification COM 1302, ARB 1320 or equivalent

The following types of writing may be covered in this course: hard news, features, script writing; writing for television, video and the web; and writing for advertising and promotional purposes.

COM 3327 Persuasion: 3(3-0)

Pre-requisite: Junior Classification

This course will analyze the use of language, image and sound in persuasion. Included are the study of classical rhetoric as it is used in modern times as well as a survey of modern and post-modern approaches to persuasion. Students are expected to produce at least one example of original persuasion and are asked to present analyses of others' attempts at persuasion.

COM 3328 Mass Media Texts Analysis: 3(3-0)

Pre-requisite: Junior Classification, COM 2320

This course focuses on the textual, social and cultural analysis of mass, print and new media. Theoretical frameworks and methods include content analysis, genres study, ideological criticism, and various psychological approaches. This course may be offered with a particular theme, e.g.: gender and representation, religion or politics.

COM 3329 Screen Studies: 3(3-0)

Pre-requisites: Junior Classification, COM 1302

This course introduces current issues in film and television with emphasis on critical thought and analysis. The course begins with attention to aspects of image-making activities — such as cinematography, editing and sound — then explores more contextual screen areas such as film and television traditions, genres, gender and representation, etc. The development of cinematic language in relation to both production and interpretation will be

covered from the perspective of recent theories of visual culture. The course will include screenings and analysis of a range of works.

COM 3330 Organizational Communication:　　　　　　　　　　3(3-0)

Pre-requisites: Junior Classification, COM 2301

Students explore the range of communication required in successful organizations including the writing of feasibility studies, policy and position papers, project plan proposals and annual reports. The course examines the role of communication in organizations as well as the major theories of organizational communication, identifying and defining primary concepts, applying them to discussions of real-world situations. The role of technology, corporate culture, leadership, teamwork, ethics, and diversity in communication is examined. Effective communication in global organizations and critiques of organization communication systems and structures are also presented.

COM 3331 Communication Management:　　　　　　　　　　3(3-0)

Pre-requisites: Junior Classification

This course examines the role of managers and explores the attitudes, values, skills, and processes necessary for effective management and leadership at all levels within a communication organization and/or department. Students will learn to identify the principles of management (including unity of direction/mission, division of work and delegation, authority and responsibility), and how they are applied in communication organizations and departments. They will compare and contrast development, management, operations and the standards of practice in various communication enterprises, and identify the skills (including management and leadership of human resources, strategic planning, goal setting, and controlling) needed to manage communication organizations in a changing communication and media landscape. Classes incorporate discussion, lecture, web assignments, virtual teamwork, guest speakers and video.

COM 3399 Special Topics in Communication:　　　　　　　　　3(3-0)

Pre-requisite: Junior Classification

This course will be offered occasionally; topics will vary. Course may be taken for degree credit only once.

COM 4301 Political Communication:　　　　　　　　　　　　3(3-0)

Pre-requisite: Junior Classification and PSC 2301

This course examines communication processes around contemporary politics. It assesses the role of media communications in politics and how the media shape political opinions and agendas. Themes covered in this course

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include theories of media and democracy, agenda setting and priming, the public sphere, public relations and media spin, news production, elections and political marketing, public opinion and the crisis of political disengagement, new media and e-democracy, censorship and propaganda. Students learn to identify and analyze media framing and agenda setting during election campaigns, and how contemporary political campaigns are designed and implemented.

COM 4302 Electronic Media Production: **3(3-0)**

Pre-requisites: Junior Classification and COM 2304

This advanced hands-on class builds on the skills learned in COM 2304 Introduction to Video and Film Production. It introduces script-writing, screen direction, advanced video techniques, and editing with an emphasis on producing a sync film. Students will be required to complete a longer final project.

COM 4303 Media Economics: **3(3-0)**

Pre-requisite: Senior Classification

Basic key economic concepts such as scarcity, choice, opportunity cost, incentives, and economic growth are studied. Students examine the unique qualities of cultural industries, media corporations and markets through case studies and issues in traditional and in new and emerging media, including radio, television, cinema, mobile communications, and the Internet. Attention is given to the interaction of economics, media practices, and technologies. Students learn how to conduct independent analysis of changes in media markets

COM 4304 Communication and Development: **3(3-0)**

Pre-requisite: Senior Classification

This course examines the role media play in the promotion of social change in areas such as the environment, health, population, education, and traffic safety. This course explores the expansion of new media technologies and their implications on development issues. The course addresses ways in which groups have used new media technologies to further their social or political agendas or short-circuit local market constraints. Students will learn the conceptual and methodological skills required for the design and implementation of communication programs for social change.

■ COMPUTER SCIENCE (CSC)

CSC 1400 Introduction to Computers: **4(3-2)**

A thorough and non-technical guide for the practical use of computers that is vital to the students' personal and professional lives. It includes an

overview of the computer's history, microcomputers hardware and software including the Operating System, the most commonly used application software: word processors, electronic spreadsheets and management systems, and an introduction to programming using Pascal as a structural procedural language.

CSC 1401 Computer Programming: 4(3-2)

Pre-requisite: Working knowledge of algebra and trigonometry

This course will cover algorithms and problem solving, basic algorithmic analysis, fundamental programming constructs and data structures, and basic algorithmic strategies. Students will learn the basic skill of constructing a problem solution, and will illustrate this in labs with a high level language (currently C).

CSC 2302 Data Structures: 3(3-0)

Pre-requisites: CSC 1401. Pre or co-requisite: MTH 1304 (required for BSCS program and recommended for the other programs)

This course will build on the knowledge and skills acquired in the introductory course. It will cover basic data structures and computing algorithms, algorithmic strategies, and recursion. Students will also develop advanced competence in algorithmic statement and complete the basic tools needed for computer oriented problem solving in a high level language (currently C).

CSC 2303 Advanced Programming/Object-Oriented Programming 3(3-0)

Pre-requisite: CSC 2302

This course will build on the broad ability and understanding acquired in the previous course to give students a strong mastery of programming in a specific object-oriented programming language, currently Java. It will cover programming language concepts, event-driven programming and object-oriented programming in depth, as well as virtual machines and language translation issues including declarations and types and control abstraction mechanisms.

CSC 2304 Computer Architecture: 3(3-0)

Pre-requisites: CSC 2302 and EGR 3331

This course will build on the strong base of problem solving and programming language skills reached in the preceding courses to give students the basics of the physical structure of a modern computer. It will cover digital logic and digital systems, machine level representation of data, assembly level machine organization, memory system organization and

architecture, interfacing and communication, illustrated with projects implemented in assembly language and C.

CSC 3309 Artificial Intelligence: 3(3-0)

Pre-requisites: CSC 2303 and Junior Classification

This course provides an introduction to techniques for the programming of intelligent systems and problem-solving techniques. Topics covered include knowledge representation, propositional and predicate logic, expert systems, searching and machine learning.

CSC 3315 Languages and Compilers: 3(3-0)

Pre-requisite: CSC 2303

An introduction to the analysis of computer languages and the tools used to translate them. Includes an overview of programming languages, virtual machines, introduction to language translation and language translation systems, basic computability and automata theory.

CSC 3323 Analysis of Algorithms: 3(3-0)

Pre-requisite: CSC 2303

Study of algorithm design, including introductory concepts; sorting and searching algorithms; string, graph, and set algorithms; complexity classes; branch and bound algorithms; dynamic programming and advanced topics.

CSC 3324 Software Engineering I: 3(3-0)

Pre-requisite: CSC 2302

Course covers computer software design and development, including feasibility study, requirements analysis and design, using formal methods such Merise. Concrete case studies are used to illustrate concepts.

CSC 3325 Software Engineering II: 3(3-0)

Pre-requisite: CSC 3324

Continuation of the study of software engineering begun in CSC 3324. Students will review and assimilate the basic concepts and applications of software engineering, learn core aspects of software engineering (such as User interface, Software Quality, Software re-use, etc.) that a computer scientist must master and take into account while building a piece of software, develop skills for working in a large group on a software project, explore the literature related to the subjects addressed in this course, and acquire the basic oratory skills needed to present software engineering concepts and applications. The course applies concepts used in business and industry to develop computer-based solutions to practical problems.

CSC 3326 Database Systems: 3(3-0)

Pre-requisite: CSC 3324

The course covers the design and use of modern relational databases. Topics include file structures, hierarchical and network data models in addition to the relational model and relational algebra. SQL is also introduced. Models for database design are presented and compared. Also addressed are current trends in database including object-oriented and functional models as well as distributed databases and database security issues.

CSC 3327 Internet Technologies: 3(3-0)

Pre-requisite: CSC 3326

Provides a global view of web-based enterprise information services and covers the basic components of such a system, including web servers, client side components, server side components, http protocols, html and scripting languages, as well as e-commerce and intranet application structures, including security issues. It includes specific projects in programming servers and clients. Students will look at multiple technologies used today, including Microsoft/. NET, Java J2EE technology, Oracle tools, XML/SOAP, and others. Course will give a broad look at current technologies, as well as an in-depth study of a specific technology.

CSC 3328 Embedded Systems: 3(3-0)

Pre-requisite: CSC 3351

The course surveys application of computing systems in a range of devices ranging from nomadic devices to embedded real-time computers. Emphasis will be on developing applications for these platforms with stringent constraints such as low memory, limited power, limited processing power, no persistent storage capability etc. An integral part of this course is the implementation of a system on one of these platforms, such as VxWorks/ EPOC/ PalmOS/ Pocket PC, with a real time and mobility flavor.

CSC 3341 Computer Graphics: 3(3-0)

Pre-requisite: CSC 2302

Fundamentals of raster graphics, including 2D and 3D viewing systems, viewing transformations, line and polygon models, rendering, clipping and hidden surface removal, projections, shading and illumination, interfaces, and graphics systems components.

CSC 3342 Human-Computer Interaction: 3(3-0)

Pre-requisite: CSC 2303

This course is an introduction to HCI models and concepts. It will go through the different models used to represent user interfaces, from the SEEHEIM

model to the more recent ARCH model. It will include a presentation of the different criteria that measure the adaptability, the flexibility and the ergonomy of interfaces, a review of the different techniques used to build interfaces, and a short description of the latest adaptive interfaces.

CSC 3343 CAD/CAM/CAE Fundamentals: 3(3-0)

Pre-requisite: CSC 3341

Fundamentals, introduction to CATIA, Solid modeling, Surface modeling, 2D/3D integration, Mechanical assembly.

CSC 3344 Advanced Modeling and Simulation: 3(3-0)

Pre-requisite: CSC 3343

Free form design, realistic renderings, parametric and variational modeling, feature based design, numerical computation, finite element method, and kinematics.

CSC 3351 Operating Systems: 3(3-0)

Pre-requisites: CSC 2303 and CSC 2304

This course introduces students to fundamental concepts of operating systems. It emphasizes structures, key design issues, as well as the fundamental principles behind modern operating systems. It is structured following the ACM/IEEE Operating System Body of Knowledge ("BOK") as defined in Computing Curriculum 2001 project by the Joint IEEE and ACM Task Force "CC2001." Specifically it covers units OS1, OS2, OS3, OS4, OS5, OS6, OS8 and OS12 from the BOK, including concurrency, scheduling, memory and device management, file systems, and scripting. The course uses implementations of Unix-like and Windows systems to illustrate some concepts.

CSC 3352 Computer Communications: 3(3-0)

Pre-requisites: CSC 2303 and CSC 2304

This course introduces the student to the subject of data communication in the context of the OSI model USING as case studies TCP/ IP and Novell models. It includes the basic communication theory of the physical and datalink layers. Topics include: channel capacity, error handling, transmission techniques, and flow control. Case studies: Ethernet, token ring, token bus, and others.

CSC 3353 Computer Networks: 3(3-0)

Pre-requisite: CSC 3352

This course covers relevant topics including network architecture and protocols. The OSI model is reviewed focusing on the network layer, the

transport layer and the application layer. Examples of contemporary networks such as TCP/ IP are studied in detail with emphasis on design and analysis issues.

CSC 3354 Distributed Systems: **3(3-0)**

Pre-requisites: CSC 3351 and CSC 3352

Classification of distributed systems. Systems architecture: unreliable networks and programs as implementations of perfect abstract processes that communicate through loss-free channels. Standardization of protocols and services. Specification of distributed activities. Proofs of systems properties. Server-based systems.

CSC 3355 Cryptography: **3(3-0)**

Pre-requisites: CSC 2303 and Senior Classification

This course aims at teaching students principles of modern cryptography as a major tool in Computer Security. Topics will include block and stream ciphers, secret key encryption (DES, AES, RC-n), Public key encryption (RSA, Diffie-Hellman, Elliptic curve cryptography), Key management, hash and message authentication functions (MD5, SHA-1, CMAC, HMAC), digital signatures, certificates and authentication protocols. The necessary number theory such as primes, random numbers, factoring, discrete logarithms and Finite fields mathematics will be also covered in class.: When appropriate, cryptanalysis of the various techniques, such as known/chosen plaintext, linear and differential cryptanalysis will also be discussed.

■ ECONOMICS (ECO)

ECO 2301 Microeconomics: **3(3-0)**

Pre-requisites: MTH 1300, or MTH 1303, or MTH 1304, MTH 1301 a highly recommended co-requisite.

Introduces the theoretical and practical knowledge of consumer behavior, markets, prices, and business decision-making. The behavior of individual firms is analyzed through price and output determination in various market structures. Other topics include resource markets and issues involving the public sector and the market economy.

ECO 2302 Macroeconomics: **3(3-0)**

Pre-requisite: ECO 2301

Economic analysis at the national level: theoretical analysis and measurement of changes in national income, prices, employment and issues related to exchange rates; evaluation of alternative stabilization policies.

ECO 2303 Economic Analysis: **3(3-0)**

Introduces the political economy. It covers the development and application of fundamental concepts to current societal problems.

ECO 2310 Introduction to International Economics: **3(3-0)**

This class is only open to non Business Administration students. Students minoring in International Studies who have taken ECO 3301 International Trade and FIN 3304 International Finance are exempted from taking this course.

This course consists of three different sections. The first section examines the basis of trade, the gains from trade, and the impact of trade on growth, employment and income. Topics include the theory of comparative advantage, the determination of terms of trade, and protection in theory and practice. The second section of the course examines the impact of the international monetary system on international trade, inter-national capital management, employment and growth. The course concludes by providing an introduction to the economics of international development. The primary objective is to give the students a basis for thinking about the international processes driving economic development.

ECO 3301 International Trade: **3(3-0)**

Pre-requisite: ECO 2302

This course examines the nature and theoretical foundations of modern trade between nations and the significance of geographic, social and political influences. Emphasis is on economic inter-dependency of nations; economic analysis of protectionist policies; importance of trade for development; international institutions involved in trade; issues in international capital flow; and multinational corporations.

ECO 3302 Economic Growth and Development: **3(3-0)**

Pre-requisite: ECO 2302, ECO 2310 for International Studies Major

This course introduces theories of growth and planning, and provides for formulating policies to foster and regulate growth. Emphasis is on application of analytical concepts to improve economic welfare patterns, considering problems of capital formation and human- and material-resource utilization. Social indicators to differentiate between growth and development (e.g., education, health, women's status) are addressed.

ECO 3303 Monetary Economics: **3(3-0)**

Pre-requisite: ECO 2302

A study of Moroccan and international financial systems, institutions, investments and instruments including alternative monetary systems,

exchange rate determination, and the balance of payments. Emphasis is on Moroccan monetary and fiscal policies for achieving domestic and international objectives.

ECO 3304 Intermediate Microeconomics: 3(3-0)

Pre-requisite: ECO 2302

This course provides an analytical examination of decentralized decision-making and of the price in equalizing independent actions. Concepts and discussions anticipated: demand, supply, production; general equilibrium analysis; market structures; the efficiency of free markets; consequences of externalities, monopolies, public goods.

ECO 3305 Intermediate Macroeconomics: 3(3-0)

Pre-requisite: ECO 2302

Analysis of the measurement, determination, and control of aggregate economic activity; the monetary system in relation to income, prices and employment; short-term income fluctuations; and, long-term growth.

ECO 3399 Special Topics in Economics: 3(3-0)

Pre-requisite: Junior Classification

Specially scheduled courses on significant issues or topics relevant to the study of economics.

ECO 4306 Economic Development: 3(3-0)

This course addresses the most important economic issues faced by developing economies. A special focus is placed on Morocco and the North African and Middle Eastern Economies. Students are expected to use economic models to analyze economic questions and to assess economic impacts of development projects. They are also expected to analyze and suggest sound economic policies. Special research projects are assigned and discussed by the students in this course.

■ **ENGINEERING (EGR)**

EGR 2302 Engineering Economics: 3(3-0)

Pre-requisite: MTH 1303

The time value of economic resources, engineering project investments analysis and the effect of taxes on engineering project decisions.

EGR 2402 Electric Circuits: **4(3-2)**

Pre-requisites: PHY 1402 & MTH 2304 (can be taken concurrently with Mth 2304)

Covers the basic principles as related to circuit concepts of 'R,' 'L' and 'C'. Kirchoff's laws, power flow, resistive networks analysis, loop and node equations, wye-delta conversions, topology, basic network theorems. Magnetic circuits. Computer-assisted solutions of large-scale problems. Elementary transient analysis. Steady state A-C phasor analysis, including element laws and phasor diagrams.

EGR 3304 Materials Science: **3(3-0)**

Pre-requisites: CHE 1402 and PHY 1402

An introduction to the properties and the selection of common engineering materials used in engineering applications. Engineering materials in physical systems are subject to thermal, mechanical, electrical and chemical stress. The use of appropriate engineering materials for a specific application is critical to the reliability of the engineering system. Provides basic knowledge about material parameters, including atomic structure; basic mechanical, thermal and electrical properties; composite material structures; metal and ceramic materials; corrosion; semiconductor materials; reliability and material failure; and material testing.

EGR 3306 Engineering Instrumentation: **3(3-0)**

Pre-requisite: EGR 2402

Appropriate measurement techniques and proper instrumentation to acquire data. Topics covered include: measurement standards; systems of units; accuracy, precision, calibration and measurement errors; time and frequency measurements; measurements using analog techniques and equipment; measurements using digital and equipment; methods of conditioning data signals; sensors for physical variables such as piezoelectric and photoelectric devices, electronic amplifiers, operational amplifiers; various specialized measuring devices such as stroboscopes, oscilloscopes and electronic data recorders.

EGR 3308 Thermal Engineering: **3(3-0)**

Pre-requisite: PHY 1402

Introduces the engineering student to the thermal sciences: thermodynamics, fluid dynamics and heat transfer. Topics covered include the first and second laws of thermodynamics: volumetric properties of pure fluids; heat effects; applications to flow processes, power cycles and refrigeration.

EGR 3331 Digital Design: 3(3-0)

Co-requisite: PHY 1402

Introductory concepts needed to design digital systems. Classical methods, including Boolean algebra, combinational and sequential logic and modern register transfer languages illustrate the design methods. The course is organized to provide a generic approach to the design of digital systems that does not require selecting a particular integrated circuit technology. Basic computing elements, efficient logic design methods and appropriate digital system diagrams are used in the design procedure. Topics covered include: logic functions, arithmetic circuitry, memory, error correcting principles, digital code conversions, timing sequences, principles of integrated circuits, principles of machine language and micro processor design, all of which are needed to design complex digital systems.

EGR 3402 Statics and Dynamics: 4(4-0)

Pre-requisites: MTH 2301; PHY 1401

In-depth coverage of engineering applications to the basic principles of mechanics introduced in PHY 1401 and includes topics in forces, couples, structures, beams, moments, friction, kinetics and kinematics of a particle, mass and acceleration, kinetics and kinematics of plane rigid bodies; vector algebra and calculus used.

EGR 4300 Internship: 3(3-0)

May be combined with EGR 4402 for 7 SCH

On-the-job education and training in a public or private sector agency or business. Students must consult with the internship director to arrange for a three-party contract to be drawn up that details the amount and nature of the work to be done. The contract must be signed by the student, the internship director and the agency or business person supervising the work.

EGR 4340 Honors Independent Study: 3(3-0)

Open to Honors Program students who need to pursue individual work under the supervision of a designated faculty member.

EGR 4402 Capstone Design: 4(2-4)

To be taken during the last regular semester of enrollment.

A project-design course to consolidate the information gathered in all previous courses. The content will vary and will take into account the technical electives and engineering optional courses selected.

■ ENGLISH (ENG)

ENG 1301. English Composition I: 3(3-0)

Pre-requisite: Student should pass all Language Center modules.

This course introduces students to the essay genres of reflecting, reporting, explaining, and arguing. This involves the writing of several genres of academic essay, including the production of four out-of-class essays, following the process approach to essay construction. The expository and argumentative essays are sourced from a course reader. At least two additional essays are written in class on topics not announced in advance. Additional exercises deemed important for students to learn fluent and accurate writing are assigned from a course rhetoric/ grammar text and other supplementary material, and a semester-long project of keeping of a writer's journal may be part of the instruction.

ENG 1302: English Composition II: 3(3-0)

Pre-requisite: ENG 1301

This course should be taken in the semester following the successful completion of ENG 1301. Building on the writing skills developed in ENG 1301, this course focuses on research writing. It concentrates on the skills needed to produce documented essays. These skills are to be practiced in three progressively longer documented essays. Students are required to demonstrate knowledge of (i) critical response to texts (ii) summarizing and paraphrasing (iii) Synthesis of material, and (iv) quoting and citing sources. By the end of the semester, students will be required to write a major research paper of at least eight pages in which they should use the skills listed above.

ENG 2301 Critical Thinking and Written Communication: 3(3-0)

Pre-requisites: Successful completion of all SSK courses, ENG 1301 and COM 1301

This course is designed to perfect writing skills necessary to advanced undergraduate writing in the humanities and social sciences and especially to improve students' abilities to write cogent argumentative prose in academic settings. It will build on the skills of clarity, coherence, and attention to audience and purpose established in ENG 1301 and COM 1301, and will emphasize the refinement of writers' abilities to incorporate research appropriately and gracefully into texts. The course will provide instruction and practice in the identification and analysis of the written and spoken argumentation of others. It includes exposure to and practice in a variety of approaches to argumentation, including those of Aristotle, Toulmin, Habermas, and Rogers. It includes instruction in identifying and framing issues, recognizing argument styles, reading argumentation, and identifying and avoiding logical fallacies in one's arguing.

ENG 2302 Writing for Business: 3(3-0)

Pre-requisites: Successful completion of all SSK courses, ENG 1301 and COM 1301

This course is designed to perfect writing skills necessary to advanced undergraduate writing in SBA courses and to future writing tasks in professional contexts. Building on skills learned in ENG 1301 and SKK courses, it will emphasize writers' abilities to analyze and synthesize information and to incorporate data and opinions compellingly into texts. The two initial weeks of the course are devoted to the curriculum vitae, memos, and email communication. The five following weeks are devoted to writing case studies, and short research reports. The last half of the semester is dedicated to carrying out a research project on a subject within the business major and writing a research report; this includes writing a research proposal to precede the research project itself.

ENG 2303 Technical Writing: 3(3-0)

Pre-requisites: Successful completion of all SSK courses, ENG 1301 and COM 1301

This course is designed to perfect writing skills necessary to advanced undergraduate writing in SSE courses and to future writing tasks in professional contexts. Building on skills learned in ENG 1301 and SKK courses, it will emphasize writers' abilities to analyze and synthesize information and to incorporate it into concise and clear texts. The first week of the course is devoted to writing résumés. Further instruction in the first half of the semester includes writing instructions, producing effective summaries, product reviews, and comparing/contrasting documents. The last half of the semester requires the writing of a research document on subject within the student's concentration, beginning with the submission of a research proposal at the beginning of the research process.

ENG 3301 Writing for the Professions in English: 3(3-0)

Pre-requisite: Junior Classification

This course treats the technical writing needs of corporate and government HRD professions and will focus on refining the skills developed in ENG2301 in the following genres: Advanced writing for industry, administration, and the corporate world. Emphasizes proposals, technical reports and position papers and includes the usual protocols for interoffice memos and letters. The course will also examine conventions of politeness using electronic media.

■ FINANCE (FIN)

FIN 3301 Business and Corporate Finance: 3(3-0)

Pre-requisites: ACC 2302 & ECO 2302; or ACC 2301 & EGR 2302 (SSE); or ACC 2301 & ECO 2302 (SHSS)

Financial management for business and the corporation emphasizes the conceptual framework and principles of financial management for business organizations.

The topics are designed to integrate the knowledge from the introductory courses in accounting and economics, but focusing on financial decision-making.

FIN 3302 Money and Banking: 3(3-0)

Pre-requisite: FIN 3301

This is an overview of general monetary and banking policies. It deals with the supply of money for a nation, and commercial banking's relationship with the supply and demand for money. This course also analyses monetary concepts, central banking functions and techniques of monetary stabilization.

FIN 3303 Corporate Financial Management: 3(3-0)

Pre-requisite: FIN 3301

This course continues the study of financial decision-making in corporations. The main topics covered are advanced ratios analysis, capital budgeting, capital structure, dividend policy, an introduction to portfolio management; it also provides an in-depth analysis of financial problems with the organization, operation, merger and dissolution of corporations.

FIN 3304 International Finance: 3(3-0)

Pre-requisites: FIN 3301 and ECO 3301 highly recommended

This course introduces the world of international finance, investment, and business. Standard financial management and the multidimensional world of decisionmaking within a global context are addressed.

FIN 4305 Financial Intermediation: 3(3-0)

Pre-requisites: FIN 3302 and FIN 3303

This course reviews the theory and practice of financial intermediations, and focuses on intermediaries as economic institutions that facilitate and provide the social role of transferring financial resources from savers to investors (borrowers). Methods of structuring assets and liabilities are presented, and the goals and frameworks of various intermediaries, such as commercial banks, insurance companies, pension funds, investment companies and government agencies, are analyzed.

FIN 4306 Financial Investments and Securities Analysis:　　　3(3-0)

Pre-requisite: FIN 3303

This course deals with financial investments with emphasis on identifying, evaluating, and selecting investments. It also evaluates the trade-off between investment return and its associated risk.

FIN 4307 Modern Investment Theory:　　　3(3-0)

Pre-requisite: FIN 3303

This course provides a more rigorous theoretical framework than FIN 4306. Focuses on understanding modern investment theory as applied to portfolio management.

FIN 4308 Financial Futures, Options and Other Derivative Securities:　　　3(3-0)
Pre-requisite: FIN 4306

This course introduces financial futures, options and other derivative securities as speculative or investment vehicles. Theory and application are equally stressed. A major objective is to establish the relationship between derivative securities and modern portfolio theory.

FIN 3399 Special Topics in Finance:　　　3(3-0)

Pre-requisite: Senior classification or permission of the instructor

Specially scheduled readings on significant issues or topics relevant to the study of finance.

■ FRENCH (FRE/FRN)

FRE 1301 Beginning French I:　　　3(1-2)

Registration by placement test only. Not open for Moroccan students.

The course is meant as a communicative introduction for beginners to the language of everyday situations. Special emphasis on understanding and communicating, with attention paid to the production of sounds. Some basic grammar and written work is included.

FRE 1302 Beginning French II:　　　3(1-2)

Pre-requisite: FRN 1301 or placement test results.

Not open for Moroccan students.

Emphasizes speaking and understanding. Grammar is incorporated to allow for more rapid progress in the language. Students work on expanding their vocabulary and reading simple French texts.

FRE 2301 Intermediate French: 3(1-2)

Pre-requisite: FRN1302 or placement test results.

Not open for students with Moroccan or French baccalaureates.

This course consolidates vocabulary, speaking and understanding abilities. Reading materials are expanded to include more complex narratives and short poetry. The course offers an insight into the culture and history of the Francophone world within the framework of language work and using authentic materials.

FRN 1305 Consolidating French: 3(2-3)

Registration by placement test only.

This lower intermediate level course is designed to reinforce basic skills in French. It meets one hour and a half, three days a week for the duration of the semester and provides an active and systematic review of basic grammatical structures and problems and verb conjugation. All four language skills, listening, speaking, reading, and writing, are equally stressed in this course. Course does not meet UCC requirements.

FRN 1308 French for Academic Purposes I: 3(1-2)

Registration by placement test only.

This upper-intermediate level course is designed to develop facility in conversing and writing in idiomatic French. It offers an in-depth review of the French language structures: grammar, verb conjugation, writing methods, essays, oral explanations of texts, oral basic presentation, etc. Course does not meet UCC requirements.

FRN 2310 French for Academic Purposes II: 3(1-2)

Registration by placement test only.

This course is meant as a continuation of FRN 1208 and is open for students who have already acquired intermediate oral fluency and written accuracy in the French language. It offers students the opportunity to further polish and refine all four language skills, especially writing which is heavily stressed in the course with writing essays, practice of summaries.

FRN 3310 Advanced French Writing and Speaking Skills: 3(1-2)

Registration by placement test only

A learner-centered course, for students completely at ease with all four language skills. The course develops and improves students' ability to express themselves in correct standard French, both written and spoken, using authentic material drawn from the world of business, the press, and other media. A particular emphasis is put on the necessary tools that enable

students to give power, coherence, and polish to the numerous texts and presentations that they will be asked to give in their professional life.

FRN 4320 French for the Professions: 3(3-0)

This course does not meet non-BA French language core program requirements.

Pre-requisite: FRN 3310, or instructor's consent.

This course aims at giving students the necessary linguistic background in order for them to perform better in the varied business situations they will encounter during their professional life. It involves studying recent business articles on current affairs and articulating the concepts which are central to some business situations. It also analyses in details themes like the business cultures, the importance of managing the information flow in companies and the decision making process. Students are asked to summarize English articles in French (cross-reduction) and to write different kinds of business correspondence texts and to create business and enterprise project. A Moroccan dimension is always given to all the above mentioned points.

■ GRAMMAR IN ACADEMIC CONTEXT (GAC)

Placement based on TOEFL sub-scores and/or placement tests

GAC 1001 Grammar in an Academic Context I: 0(3-2)

This course is an intensive English language course extending over a semester of 75 contact hours at the rate of 5 hours per week. GAC 1001 syllabus consists of basic grammatical structures. GAC 1001 focuses on learner-centered communicative tasks, which privilege "use" rather "form." It aims at developing the learner's ability to use English in appropriate contexts, rather than just mastering language forms. To enroll in GAC 1001 students need to score a minimum of 420 in TOEFL.

GAC 1002 Grammar in an Academic Context II

This course is an advanced intensive English language course extending over a semester of 75 contact hours at the rate of 5 hours per week. GAC 1002 syllabus consists of complex grammatical structures. GAC 1002 focuses on learner-centered communicative tasks, which privilege "use" rather "form." It aims at developing the learner's ability to use English in appropriate contexts, rather than just mastering language forms. To enroll in GAC 1002 students need to score a minimum of 480 in TOEFL.

GAC 1003 Grammar in an Academic Context III:　　　　　　　**0(3-2)**

This course is an intensive English language course extending over a semester of 112.5 contact hours at the rate of 7.5 hours per week. The syllabus of GAC 1003 consists on both simple & complex grammatical structures. GAC 1003 focuses on learner-centered communicative tasks, which privilege "use" rather "form." It aims at developing the learner's ability to use English in appropriate contexts, rather than just mastering language forms. To enroll in GAC 1003 students need to have a TOEFL score between 450 and 477

■ GENERAL BUSINESS (GBU)

GBU 3301 Business Statistics:　　　　　　　　　　　**3(3-0)**

Pre-requisites: MTH 1300 and MTH 1301

An introduction to the analysis of quantitative data with business applications. Some of the topics covered include descriptive statistics, probabilities, and hypothesis testing and regression analysis. It may not be taken after satisfactory completion of SSC 2401.

GBU 3302 Legal Environment:　　　　　　　　　　　**3(3-0)**

Pre-requisite: Junior Standing

This course introduces procedures of the Moroccan legal system and how law operates in the legal environment of business, including social, political and ethical considerations.

GBU 3303: Enterprises, Markets and the Moroccan Economy:　　**3(3-0)**

Pre-requisite: Junior Standing

This course covers current business, accounting and financial issues faced by enterprises and markets in Morocco. It also addresses the major trends that characterize the Moroccan economy. This course is given partially or totally in the French Language depending on the guests speakers invited every semester. Note: this course is a prerequisite for the BA Internship

GBU 3399 Special Topics in Business:　　　　　　　　**3(3-0)**

Pre-requisite: Junior Standing

Specially scheduled readings on significant issues or topics relevant to the study of business.

GBU 3401 Advanced Quantitative Methods in Business:　　　**4(3-2)**

Pre-requisites: Junior Standing and GBU 3301; or MTH 3301

This course is designed to provide foundations of quantitative methods for managerial decision-making. It examines the use of modern quantitative methods to support the executive decision-making process. It includes

hypothesis testing, statistical inferences, forecasting and simulations. A once-a-week laboratory session is held in order to enhance students' ability to use specific statistical packages and deal with special business cases.

GBU 4301 Advanced Quantitative Methods in Business: **3(3-0)**

This course is designed to provide foundations of quantitative methods for managerial decision-making. It examines the use of modern quantitative methods to support the executive decision-making process. It includes hypothesis testing, statistical inferences, forecasting and regression analysis.

GBU 4308 Net-Economics and e-Business: **3(3-0)**

Pre-requisite: Senior Standing

This course deals with concepts and methods related to the new economy and to electronic businesses. It introduces the data-networks and their uses in the daily transactions of businesses. The characteristics of Economies and e-Businesses are also considered before tackling the implied economic, managerial and financial issues. Applications and case studies are also used to emphasize the practical side of this course.

GBU 4340 Honors Independent Study: **3(3-0)**

Open to Honors Program students who need to pursue individual work under the supervision of a designated faculty member.

GBU 4399 Research Methodology: **3(3-0)**

Pre-requisite: GBU 3401

The business research methodology course will offer a broad view of methodology issues related to the planning and implementation of a research process. The main focus will be to present different methodological approaches in theoretical as well as empirical social research. It will cover topics related to issues as scientific theory, the problem formulation, the nature of abstraction, modes of explanation and understanding, the problem of conceptualization, and the process in which concepts and empirical knowledge interact in formulating a research problem, research questions and research strategies. Another important focus of the course will be to present the foundations of a qualitative research approach versus a quantitative research approach in relation to different methods and techniques. Especially primary and secondary data collection will be emphasized as well as procedures for analysis and presentation of research findings in relation to conclusions and recommendations.

■ GEOGRAPHY (GEO)

GEO 1301 Introduction to Geography: 3(3-0)

This introductory social science course provides a survey of the principles of human geography. Students are initiated to the basic concepts required for the spatial analysis of social phenomena, including notions of scale and cartographic representation. Global systems and patterns are approached with a view to understanding current social issues such as development, migration and the environment. The relevance of spatial models to the analysis of contemporary issues is discussed. The course involves in-class and take-home exercises as well as field trips.

GEO 2402 Geographic Information Systems: 4(4-0)

Pre-requisites: GEO 1301 and CSC 1400

The course introduces Geographic Information Systems and associated techniques in digital image processing, and stresses fundamental logic and scope of problem-solving using raster and vector systems. The course is designed for practitioners in development, planning, conservation and environmental management.

GEO 3301 Economic Geography: 3(3-0)

This course studies the spatial organization of economic activity. The global distribution of production and international trade are analyzed with special regard given to the evolution of relations of interdependence through exchange, cycles and networks. Major economic development models, including developmentalism, world-systems perspective, Marxist and liberal theories, are discussed. Students are required to conduct bibliographic research and to write a number of essays and papers.

GEO 3302 Political Geography: 3(3-0)

This course studies the spatial deployment of power through analysis of political entities, identities and interests at different scales. Emphasis is placed on the State, with definitions of national sovereignty, territory and borders. Domestic governance and civil administration are also discussed. International institutions and agencies are analyzed in relation to contemporary economic activities, trade, resource management and environmental monitoring, and in relation to conflict and conflict resolution. Students are required to conduct bibliographic research and to write a number of essays and papers.

GEO 4301 Environmental Management: 3(3-0)

Pre-requisite: GEO 1301

The course analyses the major causes of environmental deterioration and the strategies to repair and prevent damage to the environment. The impact of economic activities such as agriculture, fishing, forestry, exploitation of mineral and energy resources, manufacturing and transportation on the Earth's air, water, soils, flora and fauna is analyzed. The role and responsibility of major actors: governments and agencies of various levels, international organizations, NGO's, corporations, producers and consumers is discussed with regard to the theory and practice of sustainable development.

◾ HISTORY (HIS)

HIS 1301 History of the Arab World: 3(3-0)

This course covers the history of the Arab world from the rise of Islam to the present by taking into consideration the perspectives of history and related fields of inquiry. It will take a social and cultural approach to understanding the different histories of Arab society. The course will attempt to balance political history and its focus on regimes and main events with long term social ands cultural transformations that are relevant to the ordinary peoples of the Arab world.

HIS 1302 History of the Arab World: 3(3-0)

Taught in Arabic, equivalent to HIS 1301

Pre-requisite: SSK 1213

This course, taught in Arabic, covers the history of the Arab world from the rise of Islam to the present by taking into consideration the perspectives of history and related fields of inquiry. It takes a social and cultural approach to understanding the different histories of Arab society. The course balances political history and its focus on regimes and main events with long term social and cultural transformations that are relevant to the ordinary peoples of the Arab world.

HIS 2301 Contemporary World History: 3(3-0)

Pre-requisite: ENG 1301

This course provides a broad overview of the major developments affecting different parts of the world in the modern era. Although much of the course deals with the political, social, and cultural history of Europe as a historical catalyst in the ways in which modernity has been shaped, special attention is paid to the interactions between Europe and other geographical areas such as

Africa, Asia, and Latin America. The course takes an interdisciplinary perspective as a way of understanding these world regions.

HIS 2302 North Africa and the Middle East in the Twentieth Century: 3(3-0)

Pre-requisite: HIS 1301 or HIS 2301

This covers the history of the Middle East and North Africa in the twentieth century. It takes a social and cultural approach to the understanding of the differing histories of both regions. The course balances political history and its focus on regimes and main events with long term social and cultural transformations that are relevant to ordinary people.

HIS 2310 Survey of United States History: 3(3-0)

The course aims to provide students with an understanding of United States history. From selected topics of political, social, economic and/ or cultural history, the students shall understand the broad lines of the formation of the United States, including its internal contradictions. The dominant narratives of political history shall be questioned in light of the underlying internal conflicts of society and ethnicity. America's changing role in the world shall be examined in relation to its domestic politics.

HIS 3301 Twentieth Century International History: 3(3-0)

Pre-requisite: HIS 1301 or HIS 1302 or HIS 2301

This course aims to survey world history in the twentieth century from a specifically international perspective: looking at war, diplomacy and cooperation between states. The origins, courses and outcomes of the two World Wars are studied as are other conflicts that have helped shape the international scene. The rise of the superpowers and the Cold War is examined together with the various efforts at international co-operation such as the League of Nations, the United Nations, European integration, and NATO.

HIS 3302 Modern European History 1814-1945:   3(3-0)

Pre-requisite: HIS 2301

This course provides a historical survey of Europe from the Congress of Vienna in 1814-15 through to the Yalta Conference in 1945. Beginning with the Treaty of Vienna, the course studies developments in nineteenth century Europe: the revolutions of 1848, the rise of nationalism, and the unifications of Italy and Germany. In the twentieth century the course addresses the origins, course and effects of the two World Wars in Europe as well as the rise of communism, Fascism and Nazism.

HIS 3310 Contemporary Moroccan History: 3(3-0)

Pre-requisite: HIS 1301

This course seeks to trace the history of Morocco during the 19th and 20th centuries and to look at the challenges that face the country in the 21st century. Following an overview of the pre-colonial era, the course concentrates on the colonial and postcolonial periods. Taking into consideration the political and economic history of Moroccan society from the advent of colonialism to the present, this course also deals with the social and cultural history of ordinary people and the way they have been affected by various historical forces. The students are introduced to a variety of themes, such as, the colonial encounter, rural and urban resistance, nationalism, working class history, women's history, democracy and the challenges of globalization.

HIS 3311 Modern Algeria: 3(3-0)

Pre-requisite: Junior Classification

This course surveys the political and economic origins and development of modern Algeria. It will trace the origins of Algeria from before the Ottoman regency, through the long transforming period of French colonization, through to the establishment of the modern independent state. The state-building policies of independent Algeria's first two presidents, Ahmed Ben Bella and Houari Boumedienne, will be considered as will be the growing economic difficulties of the 1980s and their political consequences. The crisis of 1988 and the subsequent period of political liberalization (1989-1992) will be examined, along with the drift into the serious social and civil conflict of the 1990s. The course will conclude with an analysis of the return to more authoritarian policies and the search to find social and political peace in the new century

HIS 3320 History of United States Foreign Policy: 3(3-0)

This course discusses the development of United States foreign policy from the isolationist era to the present day using a historical approach. Alternative interpretations of the history of the United States foreign policy, especially the traditionalist and revisionist schools, are offered to the students.

HIS 4301 Modern Imperialism and its Culture: 3(3-0)

Pre-requisite: Senior Classification

This course is a comparative examination of European Imperialism in the nineteenth and twentieth centuries. Students study the historical contexts which led to the emergence of imperialist relations. The course also seeks to explain the political, economic, social and cultural dimensions of European imperialism. The focus will be primarily on British and French colonial

experiences overseas. The course takes a world historical approach to the study of imperialism. Through an examination of specific histories, it explores the various reactions of the colonized peoples to the colonial encounter and the behaviors of the metropolitan colonial elite within the same context. Issues of gender, colonial science, orientalism, and culture are dealt with as part of the complex fabric of the modern colonial experience. The course concludes with a discussion of decolonization and nationalism and the effects of the colonial experience on emerging nation states.

HIS 4303 History and Memory in Twentieth Century Europe: **3(3-0)**

Pre-requisite: Senior Classification

This seminar takes collective memory as the theoretical background for the study of modern European history. It is conceived as a reflection on how history and memory are either interrelated or opposed to each other in historical thinking, and the way the past is viewed. This seminar is also an attempt to challenge the perspective of the conventional history of modern Europe. It does so by focusing on how specific social groups, such as the working class, woman, soldiers, holocaust survivors, immigrants and marginalized people remember their past experiences in the context of specific events and periods. The seminar starts with the First World War as a site of conflicting memories, and concludes with the fall of the Berlin Wall, which brought the debate about memory back to the study of history.

■ HUMAN RESOURCE DEVELOPMENT (HRD)

HRD 2300 Introduction to Human Resource Development: **3(3-0)**

This course explores the concepts, theories and strategies of Human Resource Development. It includes examining the roles of individuals responsible for the HRD program in an organization, including qualities, qualifications and scope. Students will examine critically the components of HRD and identify the main challenges facing organizations today at national and international levels.

HRD 2301 Business Environment and Ethics for HRD: **3(3-0)**

An introduction to business issues for HRD specialists. An overview of the global business environment and ethics are foundational. Also students are introduced to broader business domains of entrepreneurship, management, marketing, information technology systems, and financial management.

HRD 3401 Human Capital Management: **4(3-1)**

This course is a comprehensive view of human resource policy development with emphasis on the interdependence of personnel and operating functions. Students will analyze personnel functions of recruitment, compensation,

integration into the workforce and maintenance of human resources for the purpose of contributing to organizational, societal, and individual goals. An in-depth study of these functions will be made as to their effects upon the development of the human resources.

HRD 3302 Ethics in Professional Contexts: 3(3-0)

Pre-requisite: Junior Classification

What obligations do professionals have towards their corporations, clients, employees, and themselves? What should they do when obligations conflict? To what extent can religious values and traditions help us answer questions about work and the workplace? In examining these questions, we will integrate a philosophical approach with case studies from business and the professions, learning to apply ethical theories to situations in the contemporary workplace.

Attention will also be given to cross-cultural issues in business and ethics.

HRD 3303 Training and Development: 3(3-0)

Pre-requisite: HRD 2300

This course provides students with an understanding of how human resource development professionals prepare individuals and develop their potential and capability within the workplace. The students will learn how appropriate preparation and development programs and interventions can increase the productivity of individuals, groups and organizations. They are introduced to organizational preparation and development through assessment of preparation needs in the workplace; the clarification of learning objectives; the process of designing and implementing preparation and development programs; the methods of evaluating the effectiveness of these programs; and the use of media and technology in preparation and development.

HRD 3304 Strategic HRD: 3(3-0)

Pre-requisites: HRD 2300 and HRD 3401

The course explains how HRD programs contribute to the strategic goals of the organization and how the HRD strategy should be aligned with the corporate strategy. Crucial issues such as staffing strategies, technology implementation, organizational alignment, quality management, and cost containment will be addressed in light of strategic organizational success. The aim is to provide students with a comprehensive view about the interest of Strategic HRD and help them acquire the necessary skills and the theoretical background for adopting a strategic approach to HRD in different organizational settings.

HRD 3305 Issues in Human/Social Development: 3(3-0)

Pre-requisite: HRD 2300

This course focuses on how human and social development occurs and how various institutions and systems within the national context impact development. Particular attention is given to workforce development and the interaction between various actors in the education/training sector and the economic sector.

HRD 3399 Special Topics in HRD: 3(3-0)

Pre-requisite: Junior Classification

This course may vary in content according to faculty expertise and relevancy of current issues in HRD.

HRD 4301 Program and Project Management: 3(3-0)

Pre-requisite: HRD 2300

This course provides students with an understanding of project management concepts and tools in order to prepare them to lead and manage HRD related projects in organizations. Emphasis in the course is on acquisition of particular project management skills, such as stakeholder identification, project definition, workflow analysis, dependency charting, and budgeting.

HRD 4302 Needs Assessment and Organizational Effectiveness: 3(3-0)

Pre-requisites: HRD 2300 and HRD 3401

The course emphasizes the Needs Assessment process at organizational, job, and individual levels. It examines deeply the main approaches used and specifies their benefits and drawbacks. It also analyzes the various methods used by HRD professionals to gather and analyze data in preparation for organizational interventions and in evaluating their results.

HRD 4303 Leadership and Management Development: 3(3-0)

Pre-requisite: PSY 3302 or MGT 4304

A practicum course that applies leadership and management theory to personal leadership skill development and to the setting up of management development programs for organizations. It includes leadership skills, teamwork and team-building, conflict resolution, negotiation, interpersonal communication, and cross-cultural communication skills.

HRD 4304 Consulting for HRD: 3(3-0) Pre-requisites: HRD 2300 and HRD 3302 or permission from the instructor Consulting for HRD explains in detail the consulting process, the roles of both internal and external consultants and emphasizes the skills they should hold to be effective. It covers also the concepts and challenges of the consulting profession aiming at preparing students for guiding organizations toward improving human performance

and organizational outcomes.

HRD 4305 Human Resource Development in Public Administration   3(3-0)

Pre-requisites: HRD 2300 and HRD 3401

This course will provide a comprehensive exploration of the values, conflicts, political processes, and techniques, which provide the context for Human Resource Development in the Public Sector. This course aims to develop an understanding of the role of public administration in governance and to develop an understanding of Moroccan Laws and political environment of public administration. Also, to identify key challenges facing public administrators in Morocco. It is concerned with the role and impact of politics on the administration of the public's business. The policy roles of administrators and agencies are considered in detail. Particular attention is paid to contemporary efforts of HRD to effect a reform in the politics of administration.

HRD 4306 Organizational Development and Change: 3(3-0)

Pre-requisites: HRD 2300 and HRD 34s01

Organizational Development (OD) is a formal sub-discipline of Human Resource Development. Organizational Development involves planned interventions that are managed from the 'top' and are intended to improve the resources; and effectiveness of the entire organization. This course reviews the current theories of Organizational Development and Organizational Change. Students will examine various methods of organizational research and analysis in order to plan methods for Organizational Development interventions. The course offers opportunities to investigate OD systems and strategies.

■ HUMANITIES (HUM)

HUM 1310 History and Culture of the Berbers: 3(3-0)

The purpose of this course is to provide students with insight into the specifics of Berber culture and institutions, starting with a background survey covering the origins, distribution, and common history of the Berber peoples of North Africa up to medieval times. The focus then shifts to Morocco, covering events from the Almohad period up to the present time, with emphasis on Berber resistance during the colonial period, together with an analysis of present problems confronting the Amazigh community in this country, with special reference to the Middle Atlas region. Time is also devoted to the study of the various Berber-speaking areas of Morocco, Berber toponyms, and English translations of oral texts (folk-tales, proverbs, epic and lyrical verse, riddles, etc.).

HUM 2301 History of Islamic Technology: 3(3-0)

This introductory humanities course is a survey of technological advances in the Middle East and North Africa in the pre-modern era. While some of these advances came about as a response to the requirements of religion (e.g., determination of the qibla direction and of prayer times) many others were practical solutions to harness the forces of nature and lead a better-quality life. Two major themes of the course are 1) to show the intellectual and technological exchanges—through translations, trade and travel—between Muslims and their neighbors, and 2) to link the technologies under study to current issues by showing how past experiences and technological solutions (e.g., water use, architectural techniques, etc.) can be implemented for a sustainable cultural and economic development in the MENA region and in Morocco in particular. The course consists of a series of lectures, field trips, and video projections. No prior knowledge of Islam and its civilization is required to take the course. The course can be taken as an elective in any undergraduate program.

HUM 3301 Introduction to Islamic Art and Architecture: 3(3-0)

Taught in English, equivalent to HUM 3304

Pre-requisite: Junior Classification

This course is an introduction to Islamic art and architecture with an emphasis on the Maghreb and al-Andalus. The first section of the course deals with the period of formation of Islamic art from the advent of Islam to the end of the Umayyad period. The second section consists of a survey of the art and architecture of the major dynasties of the Islamic West from A.D. 750 to A.D. 1800. The last section of the course links Islamic art, architecture, and urbanism to their social and economic contexts. The course requires students to consider the intellectual and humanist dimensions of artistic production.

HUM 3302 Introduction to the Study of Islamic Civilization: 3(3-0)

Taught in English, equivalent to HUM 3303

Pre-requisite: Junior Classification

This course introduces students to the general features of various aspects of Islamic civilization using an interdisciplinary approach that takes into account the basis of this civilization, its sources and its permanent components. Causes of intellectual production and of past developments of this civilization will be related to factors that explain its present-day vitality.

HUM 3303 Introduction to the Study of Islamic Civilization: 3(3-0)

Taught in Arabic, equivalent to HUM 3302

Pre-requisite: Junior Classification

This course, taught in Arabic, introduces students to the general features of various aspects of Islamic civilization using an interdisciplinary approach that takes into account the basis of this civilization, its sources and its permanent components. Causes of intellectual production and of past developments of this civilization will be related to factors that explain its present-day vitality.

HUM 3304 Introduction to Islamic Art and Architecture: 3(3-0)

Taught in Arabic, equivalent to HUM 3301

Pre-requisite: Junior Classification

This course is an introduction to Islamic art and architecture with an emphasis on the Maghreb and al-Andalus. The first section of the course deals with the period of formation of Islamic art from the advent of Islam to the end of the Umayyad period. The second section consists of a survey of the art and architecture of the major dynasties of the Islamic West from A.D. 750 to A.D. 1800. The last section of the course will link Islamic art, architecture, and urbanism to their social and economic contexts. The course requires students to consider the intellectual and humanist dimensions of artistic production.

HUM 3305 Science and Society: 3(3-0)

Pre-requisite: Junior Classification

This course serves to provide an understanding both of science as an intellectual endeavor and of the contemporary world, a world increasingly shaped by science. The course directly addresses a number of key questions. What is science? What is the nature of scientific knowledge? What is the relationship between scientific knowledge and other kinds of knowledge or belief, between science and technology, between science and power? Are scientists morally responsible for the applications and effects of their scientific research?

HUM 3306 Comparative Religion: 3(3-0)

Pre-requisite: Junior Classification

This course is an introduction to the study of the world's major religions: Islam, Christianity, Judaism, Buddhism, and Hinduism. Other less known religions and religious movements are also discussed. The course covers the ideas and concepts that have shaped religions, as well as the questions that

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they have sought to address, with an emphasis on those themes shared by all of them. Students will gain a better understanding, through religion, of how human beings over the ages have perceived their place in the world.

HUM 3311 Women and Culture: **3(3-0)**

Pre-requisite: Junior Classification

This course examines the complex relationships between women and culture. It introduces students to theories of culture, gender, and representation, analyzes the images of women and sexuality in various cultural discourses such as oral literature, television, popular music, advertising, magazines, as well as high culture arts, and considers women's participation in cultural and aesthetic production, from traditional crafts through music to modern art forms.

HUM 3320 American Culture: **3(3-0)**

Pre-requisite: Junior Classification

This course addresses a variety of questions surrounding culture in the United States, including film, music, and other media. It analyses the multicultural atmosphere of the United States. It also addresses topics related to the rural-urban shift, the movement towards the cities in the North and the inclusion/ exclusion dynamics related to minority cultural artifacts.

HUM 3399: Special Topics in the Humanities: **3(3-0)**

This course provides the opportunity to explore new topics in the arts, history, philosophy, religion or literature. It will vary in content according to faculty expertise and relevancy of current issues in the humanities.

HUM 3412 Moroccan Cultural Heritage: **4(4-0)**

Pre-requisites: HUM 3302; HIS 2302

The purpose of this course is to provide students with an in-depth knowledge of Moroccan cultural heritage from both tangible and intangible perspectives. Through the positive intermingling of Berber, Arab, Islamic, Jewish, Roman, Andalusian, French, Saharan and Sub-Saharan cultures, Morocco has been a place for innovation in the arts of living and building. The course will place an emphasis on Moroccan heritage as it continues to thrive in cities, towns and villages throughout the country. It aims at providing an understanding of how the traditions of Moroccan life can serve as a catalyst for developments in contemporary Morocco. This four (4) SCH course involves a number of local and cross-country field trips.

■ INTERNATIONAL STUDIES (INS)

INS 2320 Model United Nations: 3(3-0)

Pre-requisite: Junior Classification

This class examines the structure, history, and functions of the United Nations, and of the major issues that it has faced and is currently facing. The course combines both knowledge of, and simulated debates about major political and social issues and concludes with an in-class simulation. Students learn the rules of procedure, the principles of resolution writing, and the preparation of national position papers. They also study the foreign policy positions of at least one country in order to represent that country in class simulations.

INS 3301 Theories and Models of International Relations: 3(3-0)

Pre-requisite: PSC 2301

The course is a survey of the main theories and models of international relations. After considering some concepts such as order, power, sovereignty and international justice, the course examines central themes in international relations such as the balance of power, international law and organizations, diplomacy and globalization. This theoretical background is then applied to specific issues in international politics such as interventionism, human rights, terrorism, or peace and war.

INS 3302 International Law and Organizations: 3(3-0)

Pre-requisite: INS 3301

This course introduces students to both international law and international organizations. The role and application of international law is examined, particularly in the fields of conflict, trade, maritime issues and borders. The course surveys the range, role and function of the main international organizations operating in the contemporary international system, including the United Nations, the International Monetary Fund and the World Trade Organization.

INS 3310 The United States and the Middle East: 3(3-0)

Pre-requisite: Junior Classification

This course studies the role of the United States in the Middle East and the way it has defined its interests in that region. Topics examined include the United States' response to shocks generated by the Arab-Israeli conflict, the oil crisis, the Iranian revolution and coups in North African and Middle Eastern states. United States foreign policy with regard to the Maghreb is also studied.

INS 3311 Economic History of the United States: 3(3-0)

Pre-requisite: Junior Classification

Students in this course study the development of the United States economy from independence to the present day. Among other issues, the course addresses the development of the agricultural system, industrialization, the information age and the transition to a service sector economy. The course also addresses the role of the government in macroeconomic policy and strategic sectors.

INS 3397 Special Topics in American Studies: 3(3-0)

Pre-requisite: Junior Classification

Specially scheduled courses on significant issues or topics relevant to the study of American Studies.

INS 3398 Special Topics in European Studies: 3(3-0)

This is a specially scheduled course on significant issues or topics relevant to the study of European Studies.

INS 3399 Special Topics in North African and Middle Eastern: 3(3-0) Studies

Specially scheduled courses on significant issues or topics relevant to the study of North African and Middle Eastern Studies.

■ **INTERNSHIP (INT)**

INT 4300 Internship: 3(3-0)

Senior Classification required; GBU 3303 for BBA students (NOTE: for SSE students 3-7 SCH)

On-the-job education and training in a public or private sector agency or business to be completed preferably in the summer. Students must consult with the internship director to arrange for a three-party contract to be drawn up that details the amount and nature of the work to be done. The contract must be signed by the student, the internship director and the agency or business person supervising the work.

■ **LITERATURE (LIT)**

LIT 2301 Major Works of World Literature: 3(3-0)

(equivalent to ARB 2305/LIT 2305)

Pre-requisites: Sophomore Classification and ENG 1301

This course is designed to give students a generous sampling of the major works of World Literature. The course focuses on reading, analyzing and discussing works drawn from the various historical periods and genres using

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a multidisciplinary approach. Works from various geo-cultural regions, aboriginal and immigrant writers, and from male and female writers are included.

LIT 2304 Introduction to Arabic Literature: **3(3-0)**

Taught in Arabic, same as ARB 2304

The aim of this course, taught in Arabic, is to promote the knowledge of different literary genres and to enable students to differentiate between them and to appreciate beauty in a literary work of art. Literary concepts will be introduced to students and followed by reading, analysis, and discussion of works drawn from various genres.

LIT 2305 Introduction to World Literature in Arabic: **3(3-0)**

Same as ARB 2305, equivalent to LIT 2301

Pre-requisite: Sophomore Classification

This course, taught in Arabic, is designed to give students a generous sampling of the major works of World Literature. The course focuses on reading, analyzing and discussing works drawn from the various historical periods and genres using a multidisciplinary approach. Works from various geo-cultural regions, aboriginal and immigrant writers, and from male and female writers are included.

LIT 3310 Literature of the United States: **3(3-0)**

Pre-requisite: Junior Classification

This course examines the development of American literature from Nathaniel Hawthorne to the present day. Special emphasis will be placed on including African American and other minority authors in the course's reading. Students will study the development of American literature as a reflection of the realities and aspirations of the country. The students will read several novels and critique them.

■ MANAGEMENT (MGT)

MGT 3301 Principles of Management: **3(3-0)**

Pre-requisites: ACC 2302 & ECO 2302; or ACC 2301 & EGR 2302 (SSE); or ACC 2301 & ECO 2302 (SHSS)

This course introduces management concepts and applications important in all types and sizes of organizations in the global environment. It includes: strategic

planning; goal setting; controlling; decision-making; organizing; human resource management, including staffing, performance appraisal, compensation, leadership, motivation, communication; group processes; organizational quality and productivity; and ethics.

MGT 3302 Entrepreneurship: **3(3-0)**

Pre-requisites: MGT 3301, MKT 3301, FIN 3301

This course introduces students to the role of the entrepreneur in the economic system and covers how to start, finance and operate a successful business. It also focuses on developing a business plan, sources of capital, recruiting, forecasting and financial planning.

MGT 3303 Operations Management: **3(3-0)**

Pre-requisites: MGT 3301 & either GBU 3401 or MTH 3301; or SSC 2401 (SHSS)

This course introduces the field of operations management and a state-of-the-art view of the primary activities of the operation function in manufacturing and service organizations. It provides basic principles of designing, analyzing and controlling production systems and the allocation and use of resources to produce goods and services.

MGT 3399 Special Topics in Management: **3(3-0)**

Pre-requisite: Junior Standing

Specially scheduled readings on significant issues or topics relevant to the study of management.

MGT 4301 Capstone Course: Business Policy and Corporate: **3(3-0) Strategy**

To be taken during the last regular semester of enrollment.

This course focuses on the formulation and implementation of long- and medium term business strategies for a firm. The interrelationships between production, marketing, finance, accounting and human relations in reaching and affecting such strategies are considered. It is also a simulation of management problems in strategy formulation and implementation.

MGT 4304 Organizational Behavior: **3(3-0)**

Pre-requisite: MGT 3301

This course introduces theories of management, organization theory and behavior, addresses individual motivation and behavior in organizations, interpersonal communication, group dynamics, organizational structure and the role of managers in the organization.

MGT 4305 Advanced Organizational Behavior: **3(3-0)**

Pre-requisite: MGT 4304

This course is designed to expand the scope and depth of behavior analysis in the organizational workplace. It is designed to teach students the skills necessary to manage employee behavior, conflict, and labor relations. The course is divided into an in depth analysis of needs, motivation, conflict, interpersonal communications, group dynamics, organizational structure and successful workforce management.

MGT 4306 Seminar in International Management:　　　　　　**3(3-0)**

Pre-requisites: MGT 3301 and Senior Standing

This is a capstone course for students declaring international business as an area of concentration or as a minor and covers the environmental and functional areas in international business.

MGT 4307 Management of Small Enterprises:　　　　　　　**3(3-0)**

Pre-requisites: Senior Standing in Business Administration; or FIN 3301, MGT 3302 and SSC 2401 (SHSS)

As a management consulting course, this course involves the application of principles of management to non-profit and profit-oriented enterprises. Students apply knowledge to identify problems, determine alternatives, and present value-added solutions in business organizations.

MGT 4308 Management of Change:　　　　　　　　　　**3(3-0)**

Pre-requisite: Senior Standing

This course is designed to give the student a feel of an organization system in a competitive environment. It aims to provide the student an experiential feel of changes that need to be planned within an organization and why. During the course students realize that, leading such changes are challenging as the change agent meets with resistance. Designing change interventions for the improvement

of organizational performance pro-vides the opportunity for students to wear the hat of a management consultant in this course.

MGT 4309 Logistics and Supply Chain Management:　　　　**3(3-0)**

Pre-requisite: MGT 3303

This course provides an introduction to logistics and supply chain concepts, structures, design and control. Supply chain management is the integration of all activities associated with the flow and transformation of goods form raw materials to end users to achieve a sustainable advantage. Logistics is part of the supply chain process that plans, implements and controls the efficient flow and storage of goods in order to meet customers' requirements.

MGT 4310 Tourism and Hospitality Management:　　　　　**3(3-0)**

Pre-requisite: Senior Standing

This course provides coverage of essential practical skills and an understanding of the processes of the tourism and hospitality industry. Topics include: tourism growth over history; tourism organizations and infrastructure; hospitality and related services; tourism and hospitality distribution process; travel behavior and motivations; and, economic, social

and environmental impacts. The course will also reflect the changes to international and domestic tourism and hospitality environments caused by the increasing influence of the electronic business environment, terrorism and the escalation of tourism demand globally.

MGT 4311 Quality Management: 3(3-0)

Pre-requisite: Senior Standing

This course will introduce the quality management principles and the role of total quality in all key economic sectors. It also gives an overview of the philosophical perspectives supporting total quality. Finally, it provides basic technical tools and techniques relevant to quality assurance, control and improvement, including management models such as the Deming Cycle, Six sigma programs and the seven Quality Control tools.

■ MANAGEMENT INFORMATION SYSTEMS (MIS)

MIS 3301 Management Information Systems: 3(3-0)

Pre-requisites: CSC 1400 and MGT 3301; or CSC 1400, MGT 3301 and SSC 2401 (SHSS)

This course introduces basic information systems concepts and computer-based technologies. Emphasis is on understanding the role of information in the business organization, and how available computer-based technologies enable the manager to exploit and manage information and enhance the success of the firm.

MIS 3302 Managing the Information Resource: 3(3-0)

Pre-requisites: MGT 3301 and MIS 3301 or Special Permission

This course covers managerial and organizational issues involved in operating a firm. The role of automated information processing, automated support processes, and information systems is reviewed. Planning the development, direction and control of computer information systems is examined.

MIS 4311 e-Marketing: 3(3-0)

Pre-requisite: MKT 3302 or MKT 3303

Developments in information and communication technology (ICT), such as broadband, mobile communications and the Internet, have changed the world of business (the norms, forms, processes and boundaries). It is influencing, determining, and reflecting structural changes in the way business organizations conduct their marketing activities. Marketing provides an important interface between customers and organizations which is being radically influenced by electronic media. Increasingly, enhanced

communication with customers has become pivotal to the success of business activities. Networks, mobility, innovation, interaction and flexibility have become central to any marketing plan. Marketers have to adapt or rein-vent their tools to design, promote and deliver value packages.

This course exposes the students how the new ICT can be used to develop and improve the activities of marketing (e-Marketing) that cut costs, increase revenue and reduces time of marketing across the globe. This course attempts to study these issues with an objective to:

- Stimulate thinking on marketing in context of information economies
- Understand and analyze the implications of the use of the electronic
- Media for business to consumer, and business to business marketing
- Understand the convergence of marketing functions in the digital environment
- Identify the obstacles to the development and implementation of e-marketing
- programs

MIS 3399 Special Topics in Information Systems:　　　　　**3(3-0)**

Pre-requisite: Junior Standing

Specially scheduled readings on significant issues or topics relevant to management of information systems.

■ MARKETING (MKT)

MKT 3301 Principles of Marketing:　　　　　**3(3-0)**

Pre-requisites: ACC 2302 & ECO 2302; or ACC 2301 & EGR 2302 (SSE); or ACC 2301 & ECO 2302 (SHSS)

This is a survey of the marketing process from a manager's perspective. It includes an analysis of marketing activities designed to provide products and services to customers. Topics include the marketing environment, consumer buying habits and motives, regulations and advertising strategy.

MKT 3302 Advertising and Promotion Management:　　　　　**3(3-0)**

Pre-requisite: MKT 3301

This course is an overview of the broad fields of advertising and promotion management. Topics include managing promotional operations, advertising, public relations, personal selling and sales promotion. Emphasis is on how promotional campaigns are planned, created and budgeted; and how these campaigns can inform buyers, change attitudes and increase sales.

MKT 3303 Consumer Behavior: 3(3-0)

Pre-requisite: MKT 3301

This course teaches the process of consumer decision-making and the contribution of psychology, sociology and anthropology toward understanding the consumer decision-making process. Topics include a conceptual understanding of consumer behavior and application of these behavior concepts to marketing decision-making.

MKT 3399 Special Topics in Marketing: 3(3-0)

Pre-requisite: Junior Standing

Specially scheduled readings on significant issues or topics relevant to marketing.

MKT 4304 Marketing Research: 3(3-0)

Pre-requisites: MKT 3301 and one of the following: GBU 3401, SSC 2401, MTH 3301

This course provides tools for marketing decision-making, considers the definition of research problems, selection of projects, analysis of data, and data analysis techniques, and includes problem formulation, research design, alternative methods of data collection including data collection instruments, statistical sampling and field operation.

MKT 4305 Marketing Management: 3(3-0)

Pre-requisites: MGT 3301 and one of the following: MKT 3302 or MKT 3303

This course covers the planning and execution of marketing activities from the managerial viewpoint. Emphasis on determining the basic product or service market analysis, price policies, product promotion, sales force management, sales analysis, and physical distribution with logistics systems.

MKT 4306 International Marketing 3(3-0)

Pre-requisite: Senior Standing

Survey of international marketing: world markets, political restraints in trade, marketing practices, international logistics and advertising.

■ MATHEMATICS (MTH)

MTH 1300 Discrete Mathematics: 3(3-0)

Mathematics of finance; matrices and linear programming; probability and statistics with discrete variables.

MTH 1301 Calculus I: **3(3-0)**

Pre-requisites: Working knowledge of algebra, trigonometry and analytical geometry

Differential and integral calculus of a single variable; introduction to calculus-based probability and statistics; partial derivatives, multiple integrals and applications.

MTH 1303 Differential and Integral Calculus: **3(3-0)**

Pre-requisites: Working knowledge of algebra, trigonometry and analytical geometry.

Introductory course in calculus for science and engineering majors covering limits, continuity of functions, derivatives, Mean Value Theorem, Intermediate Value Theorem, application of derivatives, integration, and applications of the definite integral.

MTH 1304 Discrete Mathematics for Engineers: **3(3-0)**

Sets unified approach to relations, simple treatment of functions as special case of relations, groups and subgroups. Introduction to recursive and non-recursive relations, Counting, Trees and graphs (directed and undirected) and related algorithms, Lattices. Logic and Boolean algebra, and algebraic structures.

MTH1388 Introductory Mathematical Thinking: **3(3-0)**

This course is an introduction to topics in mathematics useful for humanities and social science students. Topics covered include: problem solving, logic, algebraic equations and inequalities, graphing and functions, systems of linear equations, linear programming, financial mathematics, counting methods and probability, and voting methods. Emphasis is placed on showing how mathematics can be used to solve real-world problems. Students will be introduced to the use of quantitative thinking in the study of social phenomena.

MTH 2301 Multivariable Calculus: **3(3-0)**

Pre-requisite: MTH 1303

Multivariable calculus covering vectors and surfaces, partial differentiation, multiple integration, vector calculus including Green's Theorem, Stokes' Theorem and an introduction to differential equations.

MTH 2303 Linear Algebra and Matrix Theory: **3(3-0)**

Pre-requisite: MTH 2301

An introduction to linear algebra and matrix theory, covering vector spaces, linear transformations and matrices, matrix algebra and systems of linear equations, determinants, diagonalization and defective matrices, eigen

values and eigenvectors, inner product spaces, quadratic forms and canonical forms

MTH 2304 Differential Equations: **3(3-0)**

Pre-requisite: MTH 2303

Differential equations, including basic concepts, first-order differential equations and applications, linear differential equations of higher order, series solutions, and solutions using Laplace transforms, solutions using numerical methods and applications.

MTH 3301 Probability and Statistics for Engineers: **3(3-0)**

Pre-requisites: MTH 2301 and Junior Classification

This course is a calculus based introduction to probability and statistics with emphasis on techniques and applications that are most useful to engineering. Topics cover usual discrete probability distributions, continuous probability distributions, multivariate probability distributions and an introduction to statistics and sampling distributions with a strong emphasis on engineering applications.

MTH 3302 Complex Variables and Transforms: **3(3-0)**

Pre-requisite: MTH 2304

Covers functions of a complex variable, Cauchy-Riemann equations, Taylor and Laurent expansions and residue calculus.

■ PHILOSOPHY (PHI)

PHI 2301 Philosophical Thought: **3(3-0)**

Pre-requisite: ENG 1301

This course is an introduction to Philosophy. It examines the principal themes of philosophical inquiry (e.g., metaphysics, theory of knowledge, ethics, politics, aesthetics, etc.) from both a historical and multicultural perspective. Insofar as philosophy is central to human life, its history, in different places, records the efforts of many to understand the world and our place in it. The study of philosophy therefore contributes to an understanding of some of the ideas that have shaped and that continue to shape human life, as well as teach one how to think critically about them.

PHI 2302 History of Ideas: **3(3-0)**

This course examines influential ideas in distinct areas of thought and from diverse intellectual traditions. It analyzes such ideas within a historical context, tracing their origin and development in different places and times. It considers the contributions of specific individuals (e.g., Plato, Siddartha Gotama, Ibn Rushd, Descartes, Kant, Darwin, Nietzsche, Freud, etc.), the

impact of various intellectual movements (e.g., the Enlightenment, Romanticism, Post-modernism, etc.), and how both of these have manifested themselves in different domains of thought (e.g., philosophy, religion, ethics, politics, science, the arts, etc.). The course provides students with a greater understanding of the ideas that have shaped and that continue to shape our reality.

■ PHYSICS (PHY)

PHY 1400 Conceptual Physics: 4(3-2)

It deals with basic concepts and principles of classical and modern physics for non-science majors which lead to a better understanding of the physical universe and the manner in which physics has influenced civilization.

PHY 1401 Physics I: 4(3-2)

Pre-requisite: MTH 1303

It provides engineering students with the necessary background in mechanics and vibrations required for the follow-up course in statics and dynamics, and in the thermodynamics needed for follow-up courses in engineering thermodynamics. The theoretical and experimental concepts covered are: physical quantities, linear motion, rotational motion, Newton's law of motion, work, energy, impulse, momentum, systems in equilibrium, periodic motion, elasticity, fluid mechanics, temperature and expansion, quality of heat, mechanisms of heat transfer, and thermal properties of matter.

PHY 1402 Physics II: 4(3-2)

Pre-requisite: PHY 1401

It provides students with fundamental knowledge of: electricity and magnetism required in follow up-courses in electric circuits, electromagnetism, communications and sensor systems; sound waves required in conversion to electrical signals; and optics required in follow-up courses in electromagnetism, communications and sensor systems. Theoretical and experimental topics include electric fields and forces, electromagnetic induction, AC circuits, wave productions and propagation, wave effects, sound, light, optical systems, interference, and diffraction.

■ POLITICAL SCIENCE (PSC)

PSC 2301 Comparative Political Systems: 3(3-0)

Pre-requisite: ENG 1301

The course aims to provide a solid introduction to the major concepts, theories and debates relevant to contemporary politics. It includes an

analysis of the origins and development of the state, with particular emphasis on the democratic state. It provides an overview of the main systems of government, of different models of organization of local administrations and bureaucracies, and of the roles of political parties, media, pressure groups and social movements. The course also introduces the students to the comparative methodological approach in the study of politics.

PSC 2302 Political Theory: **3(3-0)**

Pre-requisite: PSC 2301

The course serves as an introduction to the subject of political theory and philosophy. The course provides a survey of all the major political theorists, philosophers and ideas from the classical period through to the twentieth century.

The ideas and writings of Plato, Augustine, Hobbes, Locke and Machiavelli, amongst others, are considered and debated.

PSC 2310 The American Political System: **3(3-0)**

Pre-requisite: PSC 2301

This course serves as an introduction to the structure of government in the United States. The constitution and the various institutions of American government are studied from a historical and political perspective. Other crucial components of the American system such as political parties, federalism, interest groups, voting, social divisions, and the economic system are discussed and analyzed in light of the historical process of change and structural evolution. The course also introduces students to the main principles of public policy, the American public policy-making process, and its relation to key issues such as poverty, equality, immigration, foreign policy, the environment, and criminal justice.

PSC 3301 International Politics: **3(3-0)**

Pre-requisite: Junior Classification

This course deals with the relationships between states and blocks of states, especially during the 20th century. The changing role of the United Nations after the end of the Cold War, the relationships between the global 'North' and 'South,' and the revival of nationalisms and other types of identity will receive special attention.

PSC 3304 State and Society in Europe: **3(3-0)**

Pre-requisite: PSC 2301

The course examines and compares key features of the social, economic and political systems of contemporary Europe, trying to identify and describe a

continental model of society. The course focuses, in particular, on the evolution and patterns of European capitalism and its impact on working life; the changing role of families, religion, and ethnocultural identities; the features of European states and systems of governance.

PSC 3305 Introduction to Political Economy: **3(3-0)**

Pre-requisite: INS 3301

The course introduces students to the basic ideas and debates of political economy; defined as both the politics of economics and the application of economic principles to politics. The course presents the main schools of thinking in political economy as well as current debates. Classical and neo-classical, Marxist and neo-Marxist, liberal and neo-liberal schools of thought are discussed. The role of the state in the economy and democratization is also examined.

PSC 3310 North African Government and Politics: **3(3-0)**

Pre-requisite: PSC 2301

This course examines the government, politics and international relations of the states of the central Maghreb: Tunisia, Algeria and Morocco. It covers issues such as the impact of history, post-independence state-building, the role of political parties, progress towards economic and political liberalization and relations between the states and with the wider world. Students will gain an understanding of developments and issues within individual countries and be able to compare issues thematically across the three states.

PSC 3311 Politics in the Developing World: **3(3-0)**

Pre-requisite: PSC 2301

The course examines political development and the forms of government and political interaction in the states of the developing world. The themes addressed include the legacy and impact of colonialism, the roles played by political parties and the military, the issue of development and the pressures for political change and liberalization.

PSC 3312 Middle Eastern Politics: **3(3-0)**

Pre-requisite: PSC 2301

The course provides an introduction to the politics of the Middle East. Students will develop the ability to reflect comparatively on a number of political systems of the region (the 'populist-authoritarian republics', the 'family-ruled monarchies', Lebanon, Israel, Turkey and Iran); they will identify patterns and common trends in contemporary Middle Eastern politics and explore a number of thematic issues, including the question of

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the nature of the state, the role of nationalism and ethnicity, democratization and political Islam.

PSC 3320 The European Union: An Introduction: 3(3-0)

Pre-requisite: PSC 2301

The course aims to provide students with an understanding of the European Union. It is divided into sections: the historical origins and developments of the process of European integration; the main conceptual approaches to European integration; the institutional structure of the European Union; its key policies and processes. Students are also introduced to some of the issues and debates that are reflected in the contemporary academic literature on the European Union.

PSC 3372 Comparative European Politics: 3(3-0)

Pre-requisite: PSC 2301

The course aims to provide an understanding of the institutional structure and functioning of the main European political systems. Students reflect comparatively on the diversity of the political systems of Europe, identifying patterns and common trends. They identify and analyze a number of issues that characterize contemporary European political debates and agendas, and learn to recognize the connections between contemporary European politics and the wider historical, social, and cultural contexts in which they are set.

PSC 3399 Special Topics in Political Science: 3(3-0)

Specially scheduled courses on significant issues or topics relevant to the study of Political Science.

PSC 4301 European Union Foreign Policy: 3(3-0)

Pre-requisite: PSC 3320

As an analysis of the history, mechanisms and issues in European foreign policy, the course studies the evolution of external relations issues during the periods of the EEC, the European Community and the European Union itself. The growth in importance of political and security issues vis-à-vis economic and trade issues are examined as well as the key issues of membership expansion, the Barcelona Accords and relations with the USA.

■ PSYCHOLOGY (PSY)

PSY 1301 Introduction to Psychology: 3(3-0)

This course is an introductory survey of the major content areas and theoretical models of psychology emphasizing the scientific approach to critically understand human behavior. Throughout the course, behavior is examined as the product of interaction between our biology, our culture, and

our unique individual abilities. Students gain understanding of human development, consciousness, learning, memory, intelligence, emotions, and personality, among other main foci of psychology.

PSY 3302 Social/Organizational Psychology: 3(3-0)

Pre-requisite: PSY 1301 or special permission

This course looks at the influences that people have on the attitudes, beliefs and behavior of others. It applies the theories of Social Psychology to the motivations and behavior of people within work organizations.

PSY 4301 Motivation and Stress in the Workplace: 3(3-0)

Pre-requisite: PSY 1301

In this course, students are introduced to theories of motivation and conflicts. It covers material incentives, achievement motivation and success in the workplace and practical instruction on how to motivate employees. The course includes a specialized module on stress management: the nature of stress; what causes stress and how stress affects performance in the workplace; what are the moderators of stress and how they can be used to manage stress.

■ SOCIOLOGY (SOC)

SOC 1301 Principles of Sociology: 3(3-0)

This course provides an introduction to sociology by covering a range of objects of sociological investigation, including socialization, deviance, social stratification, family, gender, race and ethnicity. It also introduces students to the scope, approach, research methods and ethical concerns of sociological inquiry.

SOC 2301 Demography and Socio-Cultural Ecology: 3(3-0)

Pre-requisite: GEO 1301, SOC 1301, or SSC 1310

This course initiates students to the basic concepts in demography and an overview of data sources; an analysis of population in the light of demographic indicators (national, regional and local comparisons of birth rates, health, mortality, educational level and gender ratios); migration and urban spatial patterns and the demographic characteristics of populations and their impact on the physical environment.

■ SPANISH (SPN)

SPN 1301 Beginning Spanish I: 3(1-2)

A course targeted to those students who have no previous knowledge of Spanish Language. Basic grammar, reading and listening, oral and written

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exercises, role-plays, etc. are covered in the class. Special emphasis on communication and basic expressions for everyday situations.

SPN 1302 Beginning Spanish II: 3(1-2)

Prerequisite: SPN 1301 or instructor's consent

Beginning Spanish II is meant for students with some previous knowledge of Spanish Language. Grammar, oral and written exercises, role-plays, etc. This course is designed to enable students to express ideas, wishes, instructions, etc. using present, past and future tenses. Special attention is paid to accent, intonation and pronunciation. Reading for adapted books.

SPN 2303 Intermediate Spanish: 3(1-2)

Prerequisite: SPN 1302 or instructor's consent

The course starts with a quick review of previous grammar and communicative skills, beginning with the "subjuntivo." This course will provide the student with communicative structures, linguistic nuances and expanded vocabulary to enable him/ her to communicate in any field of everyday situations. Differences between Castellan Spanish and Latin American Spanish. Reading Spanish and Latin American Literature. Oral and written compositions at an intermediate level.

SPN 2310 Advanced Spanish: 3(1-2)

Registration by placement test only.

An integrated course, at an advanced level, SPN 2210 will cover, among other things: grammar, linguistic and literary commentaries, reading of complete works of Spanish and Latin American authors, newspaper reviews, TV programs and debates, slang, jargon, discussion of current affairs, colloquial and idiomatic expressions.

■ SOCIAL SCIENCES (SSC)

SSC 1310 Introduction to Anthropology: 3(3-0)

This course is an introduction to the principles and processes of Cultural Anthropology with an emphasis on Applied Anthropology. The course has a strong theoretical base linking social, economic, and political organizations to wider considerations of environment and culture. Students are introduced to the main ethnographic methods and are required to use more than one of them in a field exercise. Students are encouraged to make connections between materials presented in class and the realities of life in the MENA region with an emphasis on Morocco's National Human Development Initiative. Students are also introduced to ethical issues of data collection and data analysis in the Social Sciences.

SSC 2301 Arab Society: 3(3-0)

Pre-requisite: SOC 1301 or SSC 1310

This is an introduction to the study of the Arab World, both the Mashriq (Arab East) and the Maghrib (Arab West). It examines Arab Culture, the large number of shared practices and beliefs among all Arabs, as well as the cultural specifics of various regions within the Arab World. The main focus of the course deals with the contemporary issues of this vast region.

SSC 2302 Social Theory: 3(3-0)

Pre-requisite: SOC 1301 or SSC 1310

This course provides an in-depth examination of the major strands of social theory, beginning with the founders and continuing on through structuralism, feminism, and post-modernism, and including other schools that effected 20th century social theory.

SSC 2310 Development Policy: 3(3-0)

Pre-requisite: SOC 1301 or SSC 1310

The course is designed as a general introduction to the various theories that have been used in development from the early 1950s to the present day. The course will examine the origins and contexts of these various theories and why there has been a constant need to reassess them. The reasons for the collapse of development schemes and even whole national policies have often been placed on 'cultural factors'. The course will cover these cultural factors and look at how they have directly affected the new, current thinking in development, whether rural or urban.

SSC 2315 Sex, Gender and Power: 3(3-0)

Pre-requisites: GEO 1301, PSY 1301, SOC 1301 or SSC 1310, and ENG 1301

This is an introductory course in Women's Studies. It aims to explore and analyze the concepts and theories, across disciplines, which explain the place and role of women in society. It examines the difference it makes to our understanding of the world when we put women at the center of our reflections. The course examines how the notions of "women," "gender"and "sexuality"have been constructed and how these notions are related to systems of power. Such an inquiry provides a greater understanding of women's lives and experiences.

SSC 2330 International Field Seminar: 3(3-0)

This course is designed to give students firsthand field experience of major issues in the Humanities and Social Sciences. Each field seminar focuses on a specific foreign city, region or country. The course begins as a series of lectures and workshops during a regular semester (Fall or Spring) and

culminates in a 9-12 day field trip during the subsequent inter-semester break (winter break or May break), during which AUI faculty and/or local experts give presentations on select topics. Topics covered vary according to the destination, but include such issues as: economic and social conditions, political systems and processes, community affairs, environmental issues, development, tourism, international law, culture and the arts. Students write a number of response papers during the semester, prepare a project or research proposal prior to the trip, and submit a research or project report upon returning from it.

SSC 2401 Social Statistics: 4(3-2)

Pre-requisite: MTH 1388

This course aims to equip students with the basic skills in statistics to understand and evaluate data produced in published sources. Topics include organizing data, percentile, measures of central tendency and dispersion, normal curve, probability, correlation, regression analysis and nonparametric tests. The course will also include a weekly computer laboratory session.

SSC 3303 Research Methods: 3(3-0)

Pre-requisite: SOC 1301, SSC 1310, GEO 1301 or PSY1301

This course introduces students to the stages of scientific research and to the basics of quantitative and qualitative research methodology. It includes instruction in research design, literature reviews, survey methods (observation, interview, and questionnaire); as well as field research and content analysis. Students conduct a number of practical exercises.

SSC 3311 Women and Economic Development: 3(3-0)

Pre-requisite: Junior Classification

The course introduces students to the main debates and concerns of women and development. Student study the various economic activities of women in rural and urban economies, in formal and informal sectors and they consider crucial issues of women's access to land, property, income, technology and finance, as well as questions of the environment. Emphasis is placed on the evaluation of existing national and international economic and developmental policies and their implications for women in the Arab world especially.

SSC 3312 Women and Society: 3(3-0)

Pre-requisite: Junior Classification

This course provides a sociological framework for examining women's diverse experiences in society, with a special focus on women in the Arab world. It looks at how major social institutions such as the family, education,

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religion and the labor market socialize women into a distinct set of roles and positions. It also addresses issues of particular relevance to women such as health and education

SSC 3313 Women and Politics: **3(3-0)**

Pre-requisite: PSC 2301

This course surveys the involvement of women in political processes in various countries worldwide, with particular emphasis on the role played by women in the Middle East and North Africa. As well as studying issues related to political institutions, the course examines the demands made on the political system by women and the political impact of women's movements.

SSC 3315 Women in Culture and the Media: **3(3-0)**

Pre-requisite: Junior Classification

The course examines the complex relationship between women, culture and the media in various societies. It introduces students to theories of communication, gender, and representation. They critically study the current portrayal of women in oral and written literature, advertising, television, popular music, films and cartoons. In addition, students are exposed to women's participation in cultural and media production.

SSC 3316 Women in Society and Politics: **3(3-0)**

Pre-requisites: PSC 2301 and Junior Classification

This course provides a framework based on political sociology and political science for examining women's experiences in society and their participation in political institutions and decision making processes. The course develops a special focus on women in the Middle East. It seeks to understand how major social institutions such as the family, education, and religion influence women's participation in formulating and implementing policies in political parties, parliaments, and the bureaucracy. Special emphasis is placed on the political impact of, and reform programs developed by, women's movements in both the 'developing' and the 'developed' world.

SSC 3321 Economic Development in the Middle East and North Africa: **3(3-0)**

Pre-requisite: Junior Classification

The course examines the issue of development since the 1950s in North Africa and the Middle East. State policies and theories of development are studied in light of actual project implementation. Changes in the theoretical orientation towards development, the increasing role of NGOs, the rise of grass roots organizations, appropriate technology, appropriate development, and gender issues since the 1970s are discussed. The course brings the

discussion from a general coverage of the MENA region to the specifics of development implementation in Morocco.

SSC 3322 Political Anthropology: 3(3-0)

Pre-requisite: SOC 1301 or SSC 1310

This course examines the variety of socio-political systems ranging from bands, tribes and chiefdoms to states. These different political systems are understood in relation to numerous types of social and economic systems. Such concepts as kinship, social status, and income levels, among others, are used to help analyze how these various political systems actually operate. The course also deals with the multiple ranges of political realities in complex, multicultural settings like the Arab world where more than one political system may operate in peoples' lives.

SSC 3330 Immigration to the United States: 3(3-0)

Pre-requisite: Junior Classification

This course surveys the immigrant experience in the United States. The causes and effects of the various immigration waves are studied along with the evolution of legal frameworks encapsulating them. Cultural and social policies related to immigration, along with the issues of assimilation, integration and bilingual education are addressed.

SSC 3331 Race, Religion, and Minorities in the United States: 3(3-0)

Pre-requisite: Junior Classification

This course introduces students to the question of race, religion, and ethnicity in the United States. It addresses how the government and society have interacted and continue to interact with minority groups in the United States. The course focuses on the leading minorities of the United States: Native Americans, African-Americans, Hispanics, and Asian-Americans. The experiences and movements of each of various communities are examined in light of 'othering', discrimination, struggle and hopes for eventual emancipation.

SSC 3332 Crime and Punishment in the United States: 3(3-0)

Pre-requisite: Junior Classification

In this course, students study the United States criminal justice system. The constitutional basis of the system is contrasted with the realities that accused face in court. Among the topics discussed are the incarceration rate, the unequal application of the death penalty, the rights of the accused and public opinion towards crime and punishment.

SSC 3340 Independent Study: 3(3-0)

Pre-requisites: Junior Classification and approval of the dean

Open to students wishing to pursue individual work under the supervision of a designated faculty member.

SSC 3399 Special Topics in International Cooperation and Development: 3(3-0)

Specially scheduled courses on significant issues or topics relevant to the study of International Cooperation and Development.

SSC 3405 Field Methods: 4(4-0)

Pre-requisite: GEO 1301, SOC 1301 or SSC 1310

This course introduces theoretical and practical techniques and methods of fieldwork. The practical portion of this course consists of specific projects to be carried out by students both on and off campus. The course carries four (4) credits due to the number of practical exercises in the field.

SSC 4301 Social Change and Technological Development: 3(3-0)

Pre-requisite: Senior Classification

This course examines technology in relation to natural resources, population composition, ideology, and social movements. Technology is understood as a change factor in cultural and social systems. Students study technological adaptation to planned versus uncontrolled changes. The course addresses manifest and latent consequences to technological development as well as cultural systems and attitudes toward technological innovation and change.

SSC 4302 Senior Capstone: 3(3-0)

Pre-requisite: SSC 3303

The Senior Capstone consists of a major, individual, independent research oriented exercise or project each student undertakes during his/her final semester. The aim of the Senior Capstone is to give students the opportunity to use the research tools and analytical skills they have acquired in their undergraduate courses, and to work creatively with the theories and concepts relevant to their field of study. The emphasis in the Senior Capstone is on student initiative. It is up to each student to come up with a research project. Students are encouraged to choose projects of particular interest to themselves. Students enrolled in the Senior Capstone meet in seminar fashion in order to discuss methodology, data collection and analysis, sources, and other issues relevant to their projects, and to exchange ideas with invited speakers.

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SSC 4310 Ethnicity and Minorities in Europe: 3(3-0)

The course explores the politics of ethno-cultural diversity in contemporary Europe. It examines the conditions of some of the historical territorial minorities of Europe (Scottish, Corsican, Catalan, etc.), emphasizing the recent revival of regional identities which had been declining, or were considered "lost" (Cornish, Breton, etc.). It also surveys the increasing urban ethno-cultural, racial and religious pluralism of urban societies as a result of decolonization and immigration. The course analyses the social and political implications of a new ethno-culturally diverse Europe and explores how European social and political systems have responded to growing demands for collective recognition.

■ STUDY SKILLS (SSK)

SSK 1211: Strategic Learning and Study Skills: 2(3-0)
Pre-requisites: Successful completion of at least three LC level 1 courses.

This course introduces the basic study skills required by students to succeed at university. Students will learn about academic expectations at university. They will be trained to take responsibility for their own learning through tasks that require them to reflect on as well as evaluate their current study habits and implement new strategies to improve their learning. Students will also develop the ability to interact effectively with their professors and peers, structure their time and their work, navigate the LAN and use on-line learning resources. They will begin to learn how to set realistic short and long term goals as well as evaluate the effectiveness of their strategies in achieving their goals.

SSK 1212: Information Literacy Skills: 2(2-0)
Pre-requisites: Successful completion of SSK 1211 and all LC level 2 courses.

In this second stage of the C.A.D. three-course sequence, students will be educated in the foundations of information literacy. Information Literacy Skills will introduce students to the research and communication skills necessary to succeed in a merit-based educational system. They will learn to locate, evaluate, use and present information legally and efficiently. Students will begin to develop critical reading and analytical skills through discussion and reflection of texts related to the new information society as well as through an individualized research project. They will learn and practice the principles of effective academic research, and demonstrate their mastery in a final writing project. Information Literacy Skills will also teach students to communicate effectively in online, classroom and group contexts.

SSK 1213: Critical Thinking and Analysis Skills: **2(2-0)**

Pre-requisites: Successful completion of SSK 1212 and ENG 1301.

This course enables students to develop an understanding of the critical thinking process, with a view to improving their own reasoning skills. Students will be introduced to key concepts used in critical thinking, shown how to examine the evidence for a claim, and trained to analyze different types of evidence, including personal experience, appeal to authority, and statistical arguments. In the first part of the course, students will be introduced to the principles of knowledge, reasoning, and evidence and asked to respond in writing to the issues raised in the readings. In the second part, students learn how to work effectively in groups. They select a topic relevant to the course theme and evaluate their own work and the work of their peers. In so doing, they will capitalize on the skills learned in SSK1212, such as choosing and narrowing a topic, locating books and periodical articles pertinent to their research, and integrating sources properly using APA style.