



**PSU** PRINCE  
SULTAN  
UNIVERSITY  
جامعة الأمير سلطان ، كلية البنائ

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**DEPARTMENT OF**

**English**

**Courses Catalog**

## College Requirement Courses

### **ISC 101 Islamic Ethics**

**Credits: 2 (2,0,0).**

This course will define the concept of ethics and importance for human life: meaning, necessity for human society, types of voluntary human actions and their objectives, moral principles and values, etc. Other topics of interest are degrees of morality, types of virtues and vices, the position of Islam regarding psychological motives, and the emphasis given by the Qur'an and the Sunna to building good characters and inculcating the virtues of truth, honesty, loyalty, modesty and good conduct.

### **ISC 103 Islamic Economics System**

**Credits: 2 (2,0,0).**

This course will introduce the Islamic economic system for people to apply in their daily affairs. The close relationship between economics and Islamic Shari'a will be shown. The methods of Islam's handling of contemporary economic issues, such as ownership, luxury, economic problems, production, distribution, consumption of goods, contracts and financing, will be discussed, comparing them to man-made systems.

### **ISC 105 Studies of The Holy Quran**

**Credits: 2 (2,0,0).**

This course has both practical and theoretical objectives. Students will be trained in the proper recitation of the Qur'an, according to the rules of Tajweed. They will also be introduced to the various fields of knowledge related to the study of the Qur'an, especially those sciences required for an adequate understanding of the Qur'an and its exegesis.

### **ISC 205 Family in Islam**

**Credits: 2 (2,0,0).**

This course is designed to deal with the issues related to family building, responsibilities and problems. Among the issues to be dealt with are: choice of future spouse, the marriage contract and its requirements, rights of spouses, parents, children and relatives. The second part of the course deals with Islamic solutions to marital problems, such as divorce, waiting period, alimony and custody of children, giving the rulings of the religion on these matters.

### **ARAB 101 Arabic Writing I**

**Credits: 2 (2,0,0).**

In this course, students will be trained in the principles and rules of Arabic writing, starting with different sentence types and their structures and the correct use of punctuation marks. This will be followed by training students in paragraph and short essay writing on different topics.

### **ARAB 103 Arabic Writing II**

**Credits: 2 (2,0,0). Prerequisite: ARAB 101.**

This course is a continuation of ARB 101. In this course, students will be trained to apply the skills learned in ARB 101 for their academic assignments, which include writing summaries, critical essays and analytical reports.

### **ARAB 201 Functional Grammar**

**Credits: 3 (3,0,0).**

This course will teach the main functional rules of grammar: case markers and word order. This will be achieved by the introduction of the three noun cases and three verb cases. The more common examples will be dealt with. Special attention will be given to practical exercises.

### **ARAB 302 Applied Grammar**

**Credits: 3 (3,0,0). Prerequisite: ARAB 201.**

This course is a continuation of ARB 201. In this course students will be introduced to words with fixed forms, including nouns, verbs and particles. The course will focus on the application of the rules of grammar, from this and the previous course. Students will be required to apply the information to a large number of Qur'anic texts, Ahadeeth (Prophet's Sayings) and high quality literary works.

### **IR 101 Information Resources**

**Credits: 3 (3,0,0).**

This course will introduce students to modern methods of information resources. These methods consist of employing the Internet, using digital libraries, and knowing the traditional methods of research.

### **COM 201 Communication Skills**

**Credits: 3 (3,0,0).**

The course is designed to familiarize students with the processes of communication in interpersonal, organizational, mass and inter-cultural contexts.

Topics covered include: communication paradigms, perceptual processes, personal and professional relationships. The course also includes materials related to verbal and non-verbal communication, communication technology and the role communication plays in culture. The main objectives of the course are: (1) understanding the theoretical principles underlying effective communication behavior and (2) practical application of those principles in various communicative exercises.

## **PSY 101 Introduction to Psychology**

**Credits: 3 (3,0,0).**

This course will survey the various fields of psychology. Topics include learning, cognition, personality, motivation, perception, development, social interaction and abnormal behavior. The course will also explore current approaches to psychology, demonstrating how the biological, cognitive and socio-cultural approaches to psychology combine to provide a comprehensive view of human behavior.

## **HPE 101 Health & Physical Education**

**Credits: 1 (1,0,1).**

### **Nutrition for Healthy Eating and Life**

The course will introduce the students to basic nutrition, diet, proper eating habits, reading food labels, and planning meals. It also trains students in fitness exercises, like flexibility, stretching, yoga, and pilates

## **HPE 102 Health & Physical Education**

**Credits: 1 (1,0,1).**

### **Contemporary Women's Health**

The aim of this course is to empower the students to take responsibility for their own health as women living in the 21<sup>st</sup> century. The course will focus on

promoting a healthy life style (including wellness, illness, behavior, life transitions,

managing stress, keeping fit, being a wise consumer, and reducing risks of cancer,

heart disease, diabetes and other chronic conditions).

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The students will be given an “open gym”. Fitness plans and goal setting will

be established. However, the students will have the flexibility to create their own plan

and train a minimum of once a week, when it suits them in the Fitness Room.

## Departmental Requirement Courses

### **ENG 111 Language Skills I**

**Credits: 12 (12,0,0).**

This course is a four skill ELT course. In addition to thorough coverage of reading, writing, listening and speaking, the course contains a fifth strand dedicated to grammar. It combines communicative activities with skill building exercises to develop the students' linguistic proficiency.

### **ENG 112 Language Skills II**

**Credits: 12 (12,0,0). Prerequisite: ENG 111.**

This course is a continuation of ENG 111 course. It will cover further topics and provide additional practice of the previous skills.

### ***ENG 213 Essay Writing I***

**Credits: 3 (3,0,0). Prerequisite: ENG 112.**

This course will give the students intensive training in writing an integrated, multi-paragraph essay. This is achieved by introducing them to the mechanics of writing a paragraph, as well as a complete essay, with intensive training to master the use of conjunction and cohesive devices.

### ***ENG 214 Essay Writing II***

**Credits: 3 (3,0,0). Prerequisite: ENG 213.**

This course will give students intensive training in writing the content of the paragraph in terms of the ideas expressed in the introduction, the body and the concluding paragraphs. Focusing on the following will enhance writing skills: journal writing, specialized essays, and paragraph analysis.

### **ENG 221 Introduction to Literature**

**Credits: 3 (3,0,0)**

This course will introduce the three major genres in English literature: poetry, novel, and drama. The variety of forms of poetry, such as the sonnet, the ode, the lyric, the elegy and the dramatic monologue will be emphasized and corresponding representative selections of poems will be studied. Various literary devices, like the image, symbol and metaphor will be brought to students' attention. The novel and its sub-genres of short story and novella will also be introduced and an example of each will be read. Drama will receive equal attention and a short play will be examined.

### **ENG 131 English Pronunciation**

**Credits: 2 (1,0,2).**

The purpose of this course is to (1) introduce students to the description of English consonants, vowels and semivowels, as well consonant clusters, and (2) give students intensive practice in the production of these phonemes in different positions

and combinations. This course will also cover the suprasegmental phonemes of English, stress, pitch and juncture. Different intonation patterns and their uses will be discussed and practiced. Words with different stress patterns will also be practiced.

### ***ENG 132 Introduction to Linguistics I***

**Credits: 2 (2,0,0).**

This course will introduce students to general linguistics whose different components are studied in detail in the subsequent levels. Levels of linguistic analysis are tackled according to the following hierarchy: phonetic, phonology, morphology, syntax and semantics. Students will have practical training in applying what they have learned on the theoretical level to some selected texts (spoken and written).

After analyzing, each sentence or utterance from the texts selected, will be examined as an independent semantic unit.

### ***ENG 233 Introduction to Linguistics II***

**Credits: 2 (2,0,0). Prerequisite: ENG 132.**

This course will introduce students to general linguistics whose different components are studied in detail in the subsequent levels. Levels of linguistic analysis are tackled according to the following hierarchy: pragmatics, psycholinguistics, historical linguistics, language in a wider context, language contact and language variation. Then students will have practical training in applying what they have learned on the theoretical level to some selected texts (spoken and written). Having been analysed, each sentence or utterance from the texts selected will be examined as an independent semantic unit.

### **ENG 234 Phonology**

**Credits: 2 (2,0,0). Prerequisite: ENG 132.**

Principles of phonological analysis are the subject of this course. Issues, such as phonemic analysis, using both articulatory and distinctive features, phonotactics and phonological rules will be dealt with. Examples from different languages, especially English and Arabic will be used.

### **ENG 335 Syntax**

**Credits: 3 (3,0,0). Prerequisite: ENG 132.**

Students will be introduced to syntactic theory and its principles and procedures. The course will focus on one of the later schools of syntax, such as the minimalist program or lexical functional grammar. Its main principles and methods of analysing the structures of different languages will be dealt with.

### **ENG 336 English Morphology and Syntax**

**Credits: 3 (3,0,0). Prerequisite: ENG 335.**

This course will introduce students to the morphological and syntactic systems of English.

The English parts of speech, their formal and functional characteristics as well as the different types of affixation and word formation in English will be discussed. The second half of the course will deal with the structures of English sentences, clauses and phrases and their subtypes and functions.

### **ENG 337 Semantics and Pragmatics**

**Credits: 3 (3,0,0). Prerequisite: ENG 233.**

In this course, students will study the principles of semantics and pragmatics.

Both lexical and sentence semantics will be dealt with. Students will also be introduced to speech act theory and other major areas of pragmatics.

### **ENG 241 Introduction to Applied Linguistics**

**Credits: 2 (2,0,0). Prerequisite: ENG 132.**

This course is designed to introduce the main areas of study in Applied Linguistics, with principle focus on the theory and practice of language learning and teaching. The definition and scope of the field is also discussed.

### **ENG 251 Introduction to Translation Theory**

**Credits: 2 (2,0,0).**

This course will present the majority literature on translation before and after the emergence of modern linguistics. The different approaches to translation are reviewed, as well as the debates that have developed terminating in two major approaches: the *semantic* and the *communicative*.

### **ENG 261 Introduction to Applied Translation**

**Credits: 2 (2,0,0).**

This course will give students intensive practice in written translation. The texts selected (both English and Arabic) represent different registers of language with different degrees of formality. Some of the texts may be edited to adjust their length and complexity. After that, students are given their first tutorial in oral translation (at sight, consecutive and simultaneous interpreting). The tutorial begins with an introduction to the differences between translation and interpretation. They are also introduced to the mechanics and methods of interpreting together with the linguistic, mental and psychological potentials required for the task. Through practical training they are given the opportunity to practice the processes of transferring spoken information into a written document (in shorthand). Appropriate attention is accorded to linguistic and cultural problems that may hinder the translation process with the speed desired. Similarly, paralinguistic elements in translation are highlighted, with

special reference to the important role they play in rendering the communicative functions of the source language text.

**ENG 270 Introduction to Computational Linguistics**

**Credits: 2 (2,0,0). Prerequisite: ENG 132.**

This course intends to familiarize students with the field of Computational Linguistics, by surveying central issues of this field including speech synthesis and recognition as well as computational morphology, syntax, lexicology and semantics.

Practical applications of Computational Linguistics are also briefly introduced.

## Applied Linguistics (TEFL)

### Program Requirement Courses

#### **ENG 342 Language Acquisition**

**Credits: 3 (3,0,0). Prerequisite: ENG 132.**

The course will introduce students to major theories and research topics related to first language development and second language acquisition, including their application to language teaching.

#### ***ENG 343 Teaching English as a Foreign Language (TEFL)***

**Credits: 3 (3,0,0). Prerequisite: ENG 132.**

The course focuses on familiarizing students with the various techniques of teaching the four skills of listening, speaking, reading and writing, in addition to grammar, vocabulary and pronunciation. It also deals with teaching culture and literature in TEFL. Moreover, classroom management and lesson planning are dealt with.

#### **ENG 344 Topics in Applied Linguistics.**

**Credits: 3 (3,0,0). Prerequisite: ENG 241.**

The course is a continuation of ENG 241. It will provide further study of more specialized topics and research issues in Applied Linguistics, such as communication studies, bilingualism, language proficiency, and curriculum design in general English and ESP.

#### ***ENG 445 Contrastive Analysis***

**Credits: 2 (2,0,0). Prerequisite: ENG 336.**

In this course, students are introduced to the techniques of comparing the sound systems, grammatical structures, the lexicon and cohesive devices in Arabic and English. Main areas of similarity and difference between Arabic and English will be discussed to focus the students' attention on those areas that require a special consideration, both in teaching and translation.

#### ***ENG 446 Language Testing.***

**Credits: 3 (3,0,0). Prerequisite: ENG 343.**

The course will provide an introduction to designing, writing and using foreign language tests of the four major skills as well as grammar, vocabulary and pronunciation. Some basic concepts in language testing are offered, also.

### ***ENG 447 Computer-Assisted Language Learning***

**Credits: 2 (2,0,0). Prerequisite: ENG 241, 343, 270.**

This course will draw students' attention to computer-assisted language learning and the application of some specialized computer software in the learning of language skills: reading, writing, listening and speaking. The theories on which such software is based will be elaborated on, with a brief introduction to the history of this new field.

### ***ENG 448 Conventional Aids in Language Instruction.***

**Credits: 2 (2,0,0). Prerequisite: ENG 343.**

The course aims to familiarizing students with the use of audio and visual aids in language teaching such as language labs, video and audio recorders, and films.

Other aids, such as overhead projectors, flannel boards, magnet boards, and flash cards are also discussed. The use of drawings, games, newspapers, and magazines is presented in the course, as well.

### **ENG 490 Senior Project**

Under the supervision of a faculty member, the student will write a research paper (6000-7000 words) dealing with a theoretical or practical issue in Applied Linguistics. The project may also be in the form of designing and writing a TEFL curriculum or teaching materials.

### **ENG 491 Practicum**

The course will expose students to actual practices of TEFL in real classrooms.

Under the supervision of a faculty member, students will receive a training period in TEFL, at an approved female institution by the college. This period should not be less than 150 hours of actual teaching and observation.

### **ENG 492 Cooperative Education**

This course represents an elective track (on the student's part) and a selective track (on the department's part). Therefore, students who are allowed to enroll in this course will be waived from the two following courses: Eng. 490, and Eng. 491. The aim of the course is to provide students with an opportunity to join a professional program of TEFL within an actual paid work environment, and according to a suggested work plan of training. The duration of the program is with a total of 360 hours of teaching, at an approved female educational institution by the college. The evaluation and supervision of the student's performance are provided by both the aforementioned institution and the department.

### **ENG 415 Essay Writing III**

**Credits: 3 (3,0,0): Prerequisite: ENG 214**

This course will give students an intensive training in writing the free essay, with special emphasis on language accuracy. This will be attained by assisting the students in writing outlines and academic reports using the techniques they learned from previous courses. The topics dealt with, concentrate on the argumentative type, which manipulate concrete evidence or inferential deduction to reach a conclusion, in order to support or refute a particular issue.

### **ENG 222 Fiction**

**Credits: 2 (2,0,0). Prerequisite: ENG 221.**

This course will elaborate on students' primary knowledge of the novel genre. It achieves its objective through selecting two British and two American novels. The periods covered are the nineteenth and the twentieth centuries. Suggested British authors are: Charlotte Bronte, George Eliot, Dickens, Hardy, Forster, Joyce and 12 Woolf. Suggested American authors are: Hawthorne, Henry James, Hemingway, Fitzgerald, Faulkner, and Nathanael West.

### **ENG 323 Drama**

**Credits: 2 (2,0,0). Prerequisite: ENG 221.**

This course will elaborate on students' primary knowledge of drama. It achieves its objective through reading four plays. Shakespeare is mandatory in this context. Early twentieth century British dramatists such as Oscar Wilde and George Bernard Shaw will be read, as well the American dramatists Eugene O'Neill. The course may have another orientation by looking into later dramatists in the century, such as John Osborne from the British side and both Tennessee Williams and Arthur Miller from the American side.

### **ENG 324 Poetry**

**Credits: 2 (2,0,0). Prerequisite: ENG 221.**

This course aims at familiarizing students with British and American poetry during the nineteenth and twentieth centuries. From the British side, students will read through the six major Romantic poets; the three major Victorian poets; one of the late Victorians like Dante Rossetti; and finally five modern poets including T.S.

Eliot, Yeats and Auden; a pre-war poet like Hardy, Hopkins or Housman; a post-war poet like Ted Hughes. As for the American side, there are Thoreau, Melville, Whitman, Emily Dickinson, Robert Frost, Ezra Pound, Stevens and Williams. A poem by each poet will be read and the total number of poems would amount to twenty.

### **ENG 425 Selected Works in British and American Literature**

**Credits: 3 (3,0,0). Prerequisite: ENG 222, 323, 324.**

This course will expose students to great works in British and American literature. In scope, it covers all three genres in both literatures. In emphasis, it balances out between them. A novel and a play from both the British and American side will be read, as well as five poets from each side. Since students are ready by now to receive more challenging works, one of Shakespeare's tragedies, Emily Brontë's *Wuthering Heights* and some of the long narrative Romantic and Victorian poems will be read. The selection from the American side will complement, period wise, the British side by focusing on contemporary writers. Toni Morrison for the novel, Edward Albee or Imam Amiri Baraka (*Le Roi Jones*) for drama and contemporary poets like Sylvia Plath, Denise Levertov, Seamus Heaney, Elmaz Abinader, and Naomi Shihab Nye will be studied.

### ***ENG 338 Sociolinguistics***

**Credits: 3 (3,0,0). Prerequisite: ENG 233.**

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This course will provide an introduction to the various areas of research in sociolinguistics, multilingualism ( e.g. language choice , diglossia , and codeswitching ) , language planning , language maintenance and shift , geographical and social language variation , language change , politeness , language and gender , pidgins creoles , language and culture , and ethnography.

### ***ENG 439 Psycholinguistics***

**Credits: 3 (3,0,0). Prerequisite: ENG 233.**

This course provides an introduction to the field of psycholinguistics. It covers basic topics in language comprehension and production and also the biological bases of language. The relationship between language, culture, and cognition will also be dealt with.

### Program Requirement Courses

#### **ENG 352 Computer Applications in Translation**

**Credits: 2 (2,0,0). Prerequisite: ENG 261.**

This course will introduce students to the various uses of computers in the process of translation, such as electronic dictionaries and thesauri, terminology databases and computer-aided translation. Other uses, such as word processing, automatic dictation software and e-mail will also be discussed.

#### **ENG 453 Lexicography and Terminology**

**Credits: 2 (2,0,0). Prerequisite: ENG 132.**

The art of dictionary making and the principles of terminology are the subjects of this course. Students are introduced to the main types of dictionaries and their uses and components. Dictionary and terminology compilation methods, including principles of coining new terms in Arabic, are also discussed.

#### **ENG 262 General Translation I**

**Credits: 3 (3,0,0). Prerequisite: ENG 261.**

This course will develop the skill of translation, especially written translation from English into Arabic. Major problems at all levels of linguistic analysis are treated, so students will be able to distinguish between literal and meaning-based transference of texts from one language into the other. This is usually attained through the extensive study of the context of situation. Due stress is also given to the tools involved in the stylistic wording of the target language text.

#### **ENG 363 General Translation II**

**Credits: 3 (3,0,0). Prerequisite: ENG 262.**

This course will develop the skill of translation, especially written translation from Arabic into English. Major problems at all levels of linguistic analysis are treated, so students will be able to distinguish between literal and meaning-based transference of texts from one language into the other. This is usually attained through the extensive study of the context of situation. Due stress is also given to the tools involved in the stylistic wording of the target language text.

### **ENG 364 Consecutive Interpretation**

**Credits: 3 (3,0,0). Prerequisite: ENG , 261.**

This course will train students in the art and skill of consecutive interpretation in both public and inter-personal situations. Techniques and strategies used by expert interpreters (such as making short hand notes and memory training) are taught, to be used by trainees in their exercises.

### **Eng 465 Simultaneous Interpretation**

**Credits: 3 (3,0,0). Prerequisite: ENG 261.**

This course will train students in the art and skill of simultaneous interpretation. Techniques and strategies used by expert interpreters (such as making short hand notes and memory training, talking while listening to others) are taught, to be used by trainees in their exercises. Students are also trained in 'sight translation' by following a speaker by reading from a translated text.

### **ENG 366 Specialized Translation I (Humanities)**

**Credits: 3 (3,0,0). Prerequisite: ENG 261.**

In this course, students are trained in dealing with specialized texts in the humanities. They are introduced to different references, such as specialized dictionaries and encyclopaedias, and will use them to translate texts from English into Arabic and vice versa.

### **ENG 367 Specialized Translation II (Social Sciences)**

**Credits: 3 (3,0,0). Prerequisite: ENG 261.**

In this course, students are trained in dealing with specialized texts in social sciences. They are introduced to different references, such as specialized dictionaries and encyclopaedias, and will use them to translate texts from English into Arabic and vice versa.

### **ENG 468 Specialized Translation III (Pure Sciences)**

**Credits: 3 (3,0,0). Prerequisite: ENG 261.**

In this course, students are trained in dealing with scientific and technical translation. They are introduced to different references, such as specialized dictionaries and encyclopaedias, and will use them to translate texts from English into Arabic and vice versa. Besides the problems of terminology, issues like handling scientific symbols and formulas, as well as illustrations, will be dealt with.

### **ENG 469 Specialized Translation IV (Applied Sciences)**

**Credits: 3 (3,0,0). Prerequisite: ENG 261.**

In this course, students are trained in dealing texts on applied sciences, such as medicine and engineering. They are introduced to different references, such as specialized dictionaries and encyclopaedias, and will use them to translate texts from

English into Arabic and vice versa. Besides the problems of terminology, issues like handling scientific symbols and formulas, as well as illustrations, will be dealt with.

### **ENG 493 Senior Project**

In this course, the student translates a book or part of a book, under the supervision of a member of the faculty. The number of translated words should be no

less than 15,000 and no more than 20,000 words. The translation could be from English into Arabic or vice versa, at the student's option and with the supervisor's approval. The student may start working on the project from the beginning of the first semester of the fourth year at the College.

### **ENG 494 Practicum**

The student spends one semester (300 working hours) of practical training in translation and interpretation at an institution approved by the College/ Department

for the purpose of practice under realistic working conditions.

### **ENG 495 Cooperative Education**

This is an elective course on the part of the student, which has to be approved by the Department. A student who takes this course will be waived from studying the following courses: ENG 493 And ENG 494.

The course lasts for (600 work hours) and takes place during the last semester. Its purpose is to do paid work in translation and interpretation at a recognized institution, following a specific program. The student's performance will be evaluated according to the arrangements between the Department and the training institution.

### **ARAB 303 Arabic Rhetoric**

**Credits: 2 (2,0,0).**

This course will help students realize the role of Arabic rhetoric in translation. Students will be introduced to the concepts of texts and their role in determining both lexical and structural meaning. The effect of stylistic variations will also be studied.

### **ENG 415 Essay Writing III**

**Credits: 3 (3,0,0): Prerequisite: ENG 214**

This course will give students an intensive training in writing the free essay, with special emphasis on language accuracy. This will be attained by assisting the students in writing outlines and academic reports using the techniques they learned from previous courses. The topics dealt with, concentrate on the argumentative type, which manipulate concrete evidence or inferential deduction to reach a conclusion, in order to support or refute a particular issue.

### **ENG 222 Fiction**

**Credits: 2 (2,0,0). Prerequisite: ENG 221.**

This course will elaborate on students' primary knowledge of the novel genre. It achieves its objective through selecting two British and two American novels. The periods covered are the nineteenth and the twentieth centuries. Suggested British authors are: Charlotte Bronte, George Eliot, Dickens, Hardy, Forster, Joyce and . Woolf. Suggested American authors are: Hawthorne, Henry James, Hemingway, Fitzgerald, Faulkner, and Nathanael West.

### **ENG 323 Drama**

**Credits: 2 (2,0,0). Prerequisite: ENG 221.**

This course will elaborate on students' primary knowledge of drama. It achieves its objective through reading four plays. Shakespeare is mandatory in this context. Early twentieth century British dramatists such as Oscar Wilde and George Bernard Shaw will be read, as well the American dramatists Eugene O'Neill. The course may have another orientation by looking into later dramatists in the century, such as John Osborne from the British side and both Tennessee Williams and Arthur Miller from the American side.

### **ENG 324 Poetry**

**Credits: 2 (2,0,0). Prerequisite: ENG 221.**

This course aims at familiarizing students with British and American poetry during the nineteenth and twentieth centuries. From the British side, students will read through the six major Romantic poets; the three major Victorian poets; one of the late Victorians like Dante Rossetti; and finally five modern poets including T.S. Eliot, Yeats and Auden; a pre-war poet like Hardy, Hopkins or Housman; a post-war poet like Ted Hughes. As for the American side, there are Thoreau, Melville, Whitman, Emily Dickinson, Robert Frost, Ezra Pound, Stevens and Williams. A poem by each poet will be read and the total number of poems would amount to twenty.

***ENG 445 Contrastive Analysis***

**Credits: 2 (2,0,0). Prerequisite: ENG 336.**

In this course, students are introduced to the techniques of comparing the sound systems, grammatical structures, the lexicon and cohesive devices in Arabic and English. Main areas of similarity and difference between Arabic and English will be discussed to focus the students' attention on those areas that require a special consideration, both in teaching and translation.

***EUR 101 European Language I***

**Credits: 3 (3,0,0).**

This course will develop the students' elementary language and communication skills and strategies in a modern-day European language. Students will learn basic (survival) vocabulary and grammar in discourse, in the oral mode (through listening and conversation) and in the written mode (through reading and writing). The focus will be on developing basic communicative ability through short and varied situated discourse.

***EUR 102 European Language II***

**Credits: 3 (3,0,0). Prerequisite: EUR 101**

The course will consolidate the gains from Eur 101 and further develop the students' language and communication skills and strategies to the low-intermediate level. Vocabulary and grammar will continue to be presented and practiced in situational and topic-based discourse units. Students will be required to start reading short, simplified stories and retell them orally and in writing.

# Computational Linguistics

## Program Requirement Courses

### *ENG 371 Introduction to Corpus Processing*

**Credits: 3 (3,0,0).**

The aim of this course is to familiarize the student with the methods data collection, storage manipulation and processing as well as with tools and software used for studying language use development. The course also deals with data analysis and content marking, as well as generating reports, linguistic statistics and automatic indexing, researching and abstracting.

### *ENG 372 Computational Phonology*

**Credits: 2 (2,0,0).**

The aim of this course is to familiarize the student with the tools and the software employed in machine-generated and analyzed speech. It concentrates on methods of syllabification and intonation in sound signals with a special emphasis on the sound print technology. At the same time, the course deals with the skills required for using sound analyzers and treating speech disorders.

### *ENG 373 Dictionaries and Computational Morphology*

**Credits: 2 (2,0,0).**

The first part of this course introduces machine processing of dictionaries and lexicons, terminology, synonyms and how to generate and conjoin them. The second part of the course the main approaches for morphological analysis and generation. The course also emphasizes the role of dictionaries and lexicons in morphological analysis and the role of morphological systems in natural language processing.

### *ENG 474 Natural Language Processing (Syntax & Semantics)*

**Credits: 2 (2,0,0). Prerequisite: ENG 373.**

The main purpose of this course is to introduce the major syntactic and semantic analysis approaches, grammar representations, parsing techniques, lexical semantics and applications. During the course, the student will apply the computer algorithms to build sentence analysers and generators, taking into account the grammatical rules of the language, and transform these utilities into language tools that may help in language studies.

### ***ENG 475 Statistical Natural Language Processing***

**Credits: 3 (3,0,0).**

The main purpose of this course is to introduce the various statistical models and techniques used in natural language processing. These include n-grams, weighted automata, Markov models, probabilistic parsing, clustering. The role of these techniques in studying the properties of languages and building efficient natural language processing systems is illustrated.

### **ENG 496 Senior Project**

This course is an experimental research project. It will apply previously learned

concepts and methods, substantial and suitable in nature, under the supervision of a faculty member.

### **ENG 497 Practicum**

This course will expose students to the actual practices of computational linguistics, which will enable them to bridge the gap between theory and practice. Under the supervision of a faculty member, students will receive a training session in the field of computational linguistics, at approved private or government sectors by the department. This training will be for one semester, with average of 300 hours.

### **ENG 498 Cooperative Education**

This course represents an elective track (on the student's part) and a selective track (on the department's part). Therefore, students who are allowed to enroll in this course will be waived from the two following courses: Eng. 496, and Eng. 497. The aim of the course is to provide students with an opportunity to join a professional program of TEFL within an actual paid work environment, and according to a suggested work plan of training. Typically, cooperative program will span one semester and last seven months (at least 600 working hours). Students will be evaluated during this course by the department as well as the company.

### **CS 101 Computer Programming I**

**Credits: 4 (3,1,2).**

This course deals with the basic programming and problem solving concepts. Emphasis is on techniques of problem analysis and the development of algorithms and programs. An introduction to modern object-oriented programming concepts will be introduced.

## **CS 102 Computer Programming II**

**Credits: 3 (3,1,0). Prerequisite: CS 101.**

This course deals with intermediate level object-oriented programming concepts, some sophisticated uses of object-oriented concepts (inheritance, polymorphism, method overloading and multiple inheritance of interfaces) and techniques for building systems of multiple interacting components.

## **CS 210 Data Structures and Algorithms**

**Credits: 3 (3,1,0). Prerequisite: CS 102.**

This course deals with the fundamental data structures and their effective use in a variety of applications. Emphasis is on data structure abstraction and choice, modeling of real problems and implementation for obtaining an efficient algorithm for solving a given problem. The implementation and analysis of important algorithms for sorting, searching, string processing, geometric applications, graph manipulation and matrix operations.

## **CS 320 Programming Languages: Concepts and Paradigms**

**Credits: 3 (3, 1, 0). Prerequisite: CS 210.**

This course deals with the theory and implementation of modern programming languages. Language-based programming methodologies, including procedural, object-oriented, functional, and logic programming. It will also teach design and criticism of programming languages.

## **CS 370 Introduction to Artificial Intelligence**

**Credits: 3 (3,1,0). Prerequisite: CS 210.**

This course gives an overview of Artificial Intelligence (definitions, evolutions and applications). Problem solving. Knowledge representation methods and techniques. Structures and strategies for state space search. Heuristic search techniques.

## **IS 223 Database Management Systems**

**Credits: 3 (3,1,0). Prerequisite: CS 101.**

This course deals with management of an organization's data needs. With emphasis is on management and implementation issues pertinent in a business information systems environment. Topics include: data access methods; relational, hierarchical and network database management systems; query languages; database design and performance; data administration and data dictionaries are also dealt with.

**IS 225 Systems Analysis and Design****Credits: 3 (3,1,0). Prerequisite: CS 101.**

This course gives an overview of systems analysis and design. Concepts and methods used in the analysis, design, and deployment of information systems. An

exploration of the major issues at each stage in the system development life cycle,

including requirements analysis, logical design, functional design and implementation. Technical tools such as data flow diagrams, entity-relationship

diagrams and CASE tools are introduced.

**MATH 101 Finite Mathematics****Credits: 3 (3,0,0).**

This course deals with systems of linear equations, matrices, introduction to linear programming, sets and counting techniques. Introduction to probability theory

and introduction to finance mathematics will be also dealt with.

**STAT 101 Introduction to Statistics and Probability Theory****Credits: 3 (3,1,0). Prerequisite: MATH 101 .**

This course deals with estimation of some statistical distributions such as mean, variance and their applications. Random variables and frequency distributions. Averages and variance. The binomial and normal distribution. Sampling distributions and elementary inference. Data collection and presentation, descriptive statistics. Discrete probability and probability theory. Probability distributions (normal, Poisson, etc) and applications.